

UPSHUR COUNTY

SEALED BID

BID DUE DATE:
FEBRUARY 14, 2023 BY 4PM

BID FOR:
GASOLINE AND DIESEL FUEL

BID NUMBER:
UP01-23

UPSHUR COUNTY JUDGE
COUNTY COURTHOUSE
100 W. TYLER STREET
3RD FLOOR
GILMER, TX 75644

BY:
SUN COAST RESOURCES, INC.
C/O NATIONAL SALES & SUPPLY
6405 CAVALCADE STREET, BUILDING 1
HOUSTON, TX 77026
NATIONAL@SUNCOASTRESOURCES.COM
713-429-6702 DIRECT

The County of Upshur
State of Texas

Bid # UP01-23
For: Gasoline and Diesel Fuel
Bid opens date/time: February 15, 2023 @ 10:00 a.m.

The enclosed *Invitation to Bid* (ITB) and accompanying *Specifications/Bidder's Response Form* are for your convenience in bidding the referenced products or services for Upshur County.

Sealed bids shall be delivered no later than:

Date/Time: February 14, 2023 @ 4:00 p.m.
Location: Upshur County Judge, 100 W. Tyler St, 3rd Floor County Courthouse, PO Box 790, Gilmer, TX 75644
Mark Envelope: Bid-UP01-23 Gasoline and Diesel Fuel

Bids must be signed by a person having the authority to bind the vendor in a contract. Bids that are not signed will be rejected. Upshur County reserves the right to waive simple informalities in this Invitation to Bid.

Please note that all bids must be received at the designated location by the deadline shown. Bids received after the deadline will not be considered for award of the contract. Bids will be opened in the Upshur County Courthouse, 100 West Tyler St., 3rd Floor, Gilmer, Texas. You are invited to attend.

Bids may be withdrawn by the bidder at any time prior to the official opening, but must be withdrawn in person. Alterations may not be made to a bid once submitted, but a new bid may be submitted if the substitution occurs before the opening time. After the official opening, bids may not be amended or altered and may not be withdrawn without the approval of the Commissioners Court.

Upshur County is aware of the time and effort expended in preparing and submitting bids to the County. Please let us know of any bid requirements which are causing you difficulty in responding to our bids. We want to make the process as easy and efficient as possible so that all responsible vendors can compete for the County's business.

Awards ordinarily will be made approximately two weeks after the bid opening date. To obtain results, or if you have any questions, **please contact Andy Jordan, Upshur County Road Administrator, at 903-843-7623.**

Implementation of House Bill 1295

Certificate of Interested Parties (Form 1295):

In 2015, the Texas Legislature adopted House Bill 1295, which added section 2252.908 of the Government Code. The law states that a governmental entity or state agency may not enter into certain contracts with a business entity unless the business entity submits a disclosure of interested parties to the governmental entity or state agency at the time the business entity submits the signed contract to the governmental entity or state agency.

The law applies (with a few exceptions) only to a contract between a business entity and a governmental entity or state agency that either (1) requires an action or vote by the governing body of the entity or agency before the contract may be signed or (2) has a value of at least \$1 million. The disclosure requirement applies to a contract entered into on or after January 1, 2016.

Changed or Amended Contracts:

Form 1295 is only required for a change made to an existing contract in certain circumstances: (1) if a Form 1295 was not filed for the existing contract, then a filing is only required if the changed contract either requires an action or vote by the governing body or the value of the changed contract is at least \$1 million; or (2) if a Form 1295 was filed for the existing contract, then another filing is only required for the changed contract if there is a change to the information disclosed in the Form 1295, the changed contract requires an action or vote by the governing body, or the value of the changed contract increases by at least \$1 million.

As required by law, the Commission adopted the Certificate of Interested Parties form (Form 1295) on October 5, 2015. The Commission also adopted rules (Chapter 46) to implement the law. The Commission does not have any additional authority to enforce or interpret section 2252.908 of the Government Code.

Filing Process:

A business entity must use the Form 1295 filing application the Commission created to enter the required information on Form 1295 and print a copy of the completed form. Once entered into the filing application, the completed form will include a unique certification number, called a "certification of filing."

An authorized agent of the business entity must sign the printed copy of the form affirming under the penalty of perjury that the completed form is true and correct.

The completed, printed, and signed Form 1295 bearing the unique certification of filing number must be filed with the governmental body or state agency with which the business entity is entering into the contract.

Acknowledgement by State Agency or Governmental Entity:

The governmental entity or state agency must acknowledge receipt of the filed Form 1295 with the certification of filing, using the Commission's filing application, not later than the 30th day after the date the governing body or state agency receives the Form 1295. The Commission will post the completed Form 1295 to its website within seven business days after the governmental entity or state agency acknowledges receipt of the form.

Additional Information:

Section 2252.908, Government Code.

Certificate of Interested Parties (Form 1295)**

****This is a sample form for illustration purposes only. DO NOT FILL OUT THIS SAMPLE FORM. Form 1295 MUST BE FILED ELECTRONICALLY! Paper copies and PDF copies of this sample form are not accepted!**

Chapter 46, Ethics Commission Rules (includes new rule 46.4, regarding changes to contracts, which went into effect on January 1, 2017)

Frequently Asked Questions

Last Revision: December 21, 2017

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY CERTIFICATION OF FILING

Certificate Number:
2023-978691

Date Filed:
02/02/2023

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

Sun Coast Resources, Inc.
HOUSTON, TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

Upshur County

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

UP01-23
Gasoline and Diesel Fuel

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary
	Lehne , Kathy	Houston, TX United States	X	
	Smith, Lisa	Houston, TX United States	X	
	Vetters, Lori	Houston, TX United States	X	

5 Check only if there is NO Interested Party.

6 UNSWORN DECLARATION

My name is Steven Boyd, and my date of birth is 11/5/1947.

My address is 6405 Cavalcade St., Bldg. 1, Houston, TX, 77026, USA.
(street) (city) (state) (zip code) (country)

I declare under penalty of perjury that the foregoing is true and correct.

Executed in Harris County, State of Texas, on the 8th day of February, 2023.
(month) (year)


Signature of authorized agent of contracting business entity
(Declarant)

Important Notice! The State of Texas has enacted a new law that concerns Vendors doing business with local governments effective January 1, 2006. All Vendors must now register with Upshur County before they submit a bid or proposal. Please take the time to read the information on Conflict of Interest Disclosure provided below.

Conflict of Interest Disclosure

Beginning January 1, 2006, a new state law (Chapter 176 of the Local Government Code) requires all persons contracting, or negotiating to contract, or making a bid to sell goods or services, with or to Upshur County, to file a completed Conflict of Interest Questionnaire with the County Clerk. Failure to comply with this law is a criminal offense.

The form can be found at <http://www.ethics.state.tx.us/forms/CIQ.pdf>.

This law does not apply to certain court appointed persons such as attorneys, physicians, interpreters and the like. It is your responsibility to determine whether it applies to you.

Upshur County
Bid # UP01-23 Gasoline and Diesel Fuel
Instructions/Terms of Contract

By order of the Commissioners Court of Upshur County, Texas, sealed bids will be accepted for:

Gasoline and Diesel Fuel

IT IS UNDERSTOOD that the Commissioners Court of Upshur County reserves the right to reject any or all bids for the products covered in this bid request and to waive any formalities or defects in bids or to accept such bids as it shall deem to be in the best interest of Upshur County.

BIDS MUST BE SUBMITTED on the forms included for that purpose in this packet. Each bid should be signed by a person having the authority to bind the vendor in a contract, placed in a sealed envelope and marked clearly on the outside as shown below:

<p><u>Bids should be clearly marked:</u> Bid # UP01-23 Gasoline and Diesel Fuel</p>

RETURN SEALED BID TO the following address
February 14, 2023 not later than 4:00 p.m.

Upshur County Judge
100 W. Tyler Street 3rd Floor
P.O. Box 790
Gilmer, Texas 75644

FACSIMILE TRANSMITTALS WILL NOT BE ACCEPTED

All Bids must be received in the County Judge's Office before the opening date and time.
The time stamp located in the County Judge's Office will be considered the official time
the bids are received.

GENERAL REQUIREMENTS FOR SEALED BIDS

READ THIS ENTIRE DOCUMENT CAREFULLY, FOLLOW ALL INSTRUCTIONS. YOU ARE RESPONSIBLE FOR FULFILLING ALL REQUIREMENTS AND SPECIFICATIONS. BE SURE YOU UNDERSTAND THEM.

General Requirements apply to all advertised requests for Sealed Bids; however, these may be superseded, whole or in part, by the INSTRUCTIONS/TERMS OF CONTRACT. Be sure your bid package is complete.

ADDENDA

When specifications are revised, the Upshur County Road Administrator will issue an addendum addressing the nature of the change. Bidders must sign it and include it in the returned bid package.

ASSIGNMENT

The successful bidder may not assign, sell or otherwise transfer this contract without written permission of Upshur County Commissioners Court.

AWARD

Upshur County reserves the right to award this contract on the basis of **LOWEST AND BEST BID** in accordance with the laws of the State of Texas, to waive any formality or irregularity, to make awards to more than one bidder, to reject any or all Sealed Bids. In the event the lowest dollar bidder meeting specifications is not awarded a contract, the bidder may appear before the Commissioners Court and present evidence concerning his responsibility after officially notifying the Office of the County Judge of his intent to appear.

BONDS

If this bid requires submission of bid guarantee and performance bond, there will be a separate page explaining those requirements. Bids submitted without the required bid bond or Cashier's Checks are not acceptable.

CONTRACT OBLIGATION

Upshur County Commissioners Court must award the contract before it becomes binding on Upshur County or the bidder. Department heads are **NOT** authorized to sign agreements for Upshur County. **This contract is bound when accepted by Commissioners Court.** Binding agreements shall remain in effect until all products and/or services covered by this purchase have been satisfactorily delivered and accepted.

CONTRACT RENEWALS

Renewals may be made **ONLY** by written agreement between Upshur County and the bidder. Any price escalations are limited to those stated by the bidder in the original bid.

DISQUALIFICATION OF BIDDER

Upon signing this bid document, any bidder offering to sell supplies, materials, services, or equipment to Upshur County certifies that the bidder has not violated the antitrust laws of this state codified in §15.01, *et seq.*, Business & Commerce Code, or the federal antitrust laws, and has not communicated directly or indirectly the offer made to any competitor or any other person engaged in such line of business. Any or all Sealed Bids may be rejected if the County believes that collusion exists among the Bidders. Sealed Bids in which the prices are obviously unbalanced may be rejected. If multiple Sealed Bids are submitted by a bidder and after the Sealed Bids are opened, one of the Sealed Bids is withdrawn, the result will be that all of the Sealed Bids submitted by that bidder will be withdrawn; however, nothing herein prohibits a vendor from submitting multiple Bids for different products or services.

FISCAL FUNDING

A multi-year lease or lease/purchase arrangement (if requested by the specifications), or any contract continuing as a result of an extension option, must include fiscal funding out. If, for any reason, funds are not appropriated to continue the lease or contract, said lease or contract shall become null and void on the last day of the current appropriation of funds. After expiration of the lease, leased equipment shall be removed by the contractor from the using department without penalty of any kind or form to Upshur County. All charges and physical activity related to delivery, installation, removal and redelivery shall be the responsibility of the bidder.

GOVERNING FORMS

In the event of any conflict between the terms and provisions of these requirements and the specifications, the specifications shall govern. In the event of any conflict of interpretation of any part of this overall document, Upshur County's interpretation shall govern.

GOVERNING LAW

This request for bid is governed by the competitive bidding requirements of the County Purchasing Act, Texas Local Government Code, §262.021 *et seq.*, as amended. Bidders shall comply with all applicable federal, state and local laws and regulations. Bidder is further advised that these requirements shall be fully governed by the laws of the State of Texas and that Upshur County may request and rely on advice, decisions and opinions of the Attorney General of Texas and the County Attorney concerning any portion of these requirements.

HOLD HARMLESS AGREEMENT

The successful bidder shall indemnify and hold Upshur County harmless from all claims for personal injury, death and/or property damage resulting directly or indirectly from contractor's performance. Bidder shall procure and maintain, with respect to the subject matter of this bid, appropriate insurance coverage. Certification of such coverage must be provided to the County upon request.

INSPECTIONS & TESTING

Upshur County reserves the right to inspect any item(s) or service location for compliance with specifications and requirements and needs of the using department. If a bidder cannot furnish a sample of a bid item, where applicable, for review, or fails to satisfactorily show an ability to perform, the County can reject the bid as inadequate.

INVOICES AND PAYMENTS

Bidders shall submit an original invoice on each purchase order after each delivery, indicating the purchase order number. Invoices must be itemized. Any invoice, which cannot be verified by the contract price and/or is otherwise incorrect, will be returned to the bidder for correction. Under term contracts, when multiple deliveries and/or services are required, the bidder may invoice following each delivery and the County will pay on invoice. Contracts providing for a monthly charge will be billed and paid on a monthly basis only. Prior to any and all payments made for goods and/or services provided under this contract, the bidder should provide his Taxpayer Identification Number or social security number as applicable. This information must be on file with the Upshur County Treasurer's office. Failure to provide this information may result in a delay in payment and/or back up withholding as required by the Internal Revenue Service.

MAINTENANCE

Maintenance required for equipment proposed should be available in Upshur County by a manufacturer-authorized maintenance facility. Costs for this service shall be shown on the Pricing/Delivery Information. If Upshur County opts to include maintenance, it shall be so stated in the purchase order and said cost will be included. Service will commence only upon expiration of applicable warranties and should be priced accordingly.

MATERIAL SAFETY DATA SHEETS

Under the "Hazardous Communication Act", commonly known as the "Texas Right To Know Act", a bidder must provide to the County with each delivery, material safety data sheets, which are applicable to hazardous substances, defined in the Act. Failure of the bidder to furnish this documentation will be cause to reject any bid applying thereto.

PRICING

Prices for all goods and/or services shall be negotiated to a firm amount for the duration of this contract or as agreed to in terms of time frame. All prices must be written in ink or typewritten. Where unit pricing and extended pricing differ, unit pricing prevails.

BID COMPLETION

Fill out and return ONE (1) complete bid form in an appropriately sized envelope or box. **PACKAGE MUST SHOW THE BID NUMBER, DESCRIPTION AND BE MARKED "SEALED BID."** An authorized company representative should sign the Bid Sheet. Completion of these forms is intended to verify that the bidder has submitted the bid, is familiar with its contents and has submitted the material in accordance with all requirements.

BID RETURNS

Bidders must return all completed Sealed Bids to the office of the Upshur County Judge at the time and on the date specified. Late Sealed Bids will not be accepted.

PURCHASE ORDER AND DELIVERY

The successful bidder shall not deliver products or provide services without an Upshur County Purchase Order. The fastest, most reasonable delivery time shall be indicated by the bidder in the proper place on the bid document. Any special information concerning delivery should also be included, on a separate sheet, if necessary. All items shall be shipped F.O.B. **INSIDE DELIVERY** unless otherwise stated in the specifications. Every tender or delivery of goods must fully comply with all provisions of these requirements and the specifications including time, delivery and quality. Nonconformance shall constitute a breach, which must be rectified prior to expiration of the time for performance. Failure to rectify within the performance period will be considered cause to reject future deliveries and cancellation of the contract by Upshur County without prejudice to other remedies provided by law. Where delivery times are critical, Upshur County reserves the right to award accordingly.

SCANNED OR RE-TYPED RESPONSE

If in its response, bidder either electronically scans, re-types, or in some way reproduces the County's published bid package, then in the event of any conflict between the terms and provisions of the County's published bid package, or any portion thereof, and the terms and provisions of the response made by bidder, the County's bid package as *published* shall control. Furthermore, if an alteration of any kind to the County's published bid package is only discovered after the contract is executed and is or is not being performed; the contract is subject to immediate cancellation.

SEVERABILITY

If any section, subsection, paragraph, sentence, clause, phrase or word of these requirements or the specifications shall be held invalid, such holding shall not affect the remaining portions of these requirements and the specifications and it is hereby declared that such remaining portions would have been included in these requirements and the specifications as though the invalid portion had been omitted.

SILENCE OF SPECIFICATIONS

The apparent silence of specifications as to any detail, or the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best commercial practice is to prevail and that only material and workmanship of the finest quality are to be used. All interpretations of specifications shall be made on the basis of this statement. The items furnished under this contract shall be new, unused of the latest product in production to commercial trade and shall be of the highest quality as to materials used and workmanship. Manufacturer furnishing these items shall be experienced in design and construction of such items and shall be an established supplier of the item proposed.

SUPPLEMENTAL MATERIALS

Bidders are responsible for including all pertinent product data in the returned bid package. Literature, brochures, data sheets, specification information, completed forms requested as part of the bid package and any other facts which may affect the evaluation and subsequent contract award should be included. Materials such as legal documents and contractual agreements, which the bidder wishes to include as a condition of the bid, must also be in the returned bid package. Failure to include all necessary and proper supplemental materials may be cause to reject the entire bid.

TAXES

Upshur County is exempt from all federal excise, state and local taxes unless otherwise stated in this document. Upshur County claims exemption from all sales and/or use taxes under Texas Tax Code §151.309, as amended. Texas Limited Sales Tax Exemption Certificates will be furnished upon written request to the Upshur County Road & Bridge Department.

TERM CONTRACTS

If the contract is intended to cover a specific time period, the term will be given in the specifications under SCOPE.

TERMINATION

Upshur County reserves the right to terminate the contract for default if Seller breaches any of the terms therein, including warranties of bidder or if the bidder becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies, which Upshur County may have in law or equity. Default may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all services required to Upshur County's satisfaction and/or to meet all other obligations and requirements. Upshur County may terminate the contract without cause upon thirty- (30) days written notice. Upshur County reserves the right to award any canceled contract to the next lowest and best bidder as it deems to be in the best interest of the County.

TESTING

Upshur County reserves the right to test equipment, supplies, material and goods proposed for quality, compliance with specifications and ability to meet the needs of the user. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the offer is subject to rejection.

WAIVER OF SUBROGATION

Bidder and bidder's insurance carrier waive any and all rights whatsoever with regard to subrogation against Upshur County as an indirect party to any suit arising out of personal or property damages resulting from bidder's performance under this agreement.

WARRANTIES

Bidders shall furnish all data pertinent to warranties or guarantees, which may apply to items in the bid. Bidders may not limit or exclude any implied warranties. Bidder warrants that product sold to the County shall conform to the standards established by the U.S. Department of Labor under the Occupational Safety and Health Act of 1970. In the event product does not conform to OSHA Standards, where applicable, Upshur County may return the product for correction or replacement at the bidder's expense. If bidder fails to make the appropriate correction within a reasonable time, Upshur County may correct at the bidder's expense.

Upshur County
Bid UP01-23 Gasoline and Diesel Fuel
Instructions/Terms of Contract

Upshur County is requesting bids on Gasoline and Diesel Fuel. Bids must be submitted on the attached forms. By returning this bid with a price quote, vendors certify and agree that:

Delivery: Bid price must include all costs, freight, FOB destination and delivery based on delivery to Upshur County Road & Bridge Department in quantities ordered by the Upshur County Road and Bridge Department.

Exceptions/Substitutions: All bids meeting the intent of this invitation to bid will be considered for award. Bidders taking exception to the specifications, or offering substitutions, shall state these exceptions in the section provided or by attachment as part of the bid. The absence of such a list shall indicate that the bidder has not taken exceptions and Upshur County shall hold the bidder responsible to perform in strict accordance with the specifications of the invitation. The Upshur County Commissioners Court reserves the right within its sole discretion to accept any and all or none of the exception(s)/substitution(s) deemed to be in the best interest of the County.

Minimum Standards for Responsible Prospective Bidders: A prospective bidder must affirmatively demonstrate their responsibility and meet the following requirements:

1. Have adequate financial resources, or the ability to obtain such resources as required;
2. Be able to comply with the required or proposed delivery schedule;
3. Have a satisfactory record of performance;
4. Have a satisfactory record of integrity and ethics, and;
5. Be otherwise qualified and eligible to receive and award.

Upshur County may request representation and other information sufficient to determine the bidder's ability to meet these minimum requirements listed on the previous page.

Upshur County
Bid UP01-23 Gasoline and Diesel Fuel
Instructions/Terms of Contract

NOTICE OF INSURANCE SECTION

Please Read Carefully

Insurance Requirements: Bidder is required to submit with bid, an original of all insurance certificate(s) showing coverage for all requirements as stated below to be in force throughout the term of the contract. All required insurance carriers must have a B+ rating or better.

- Commercial General Liability Insurance at minimum combined single limits of \$500,000 per occurrence and \$1,000,000 general aggregate for bodily injury and property damage, which coverage shall include products/completed operations, (\$1,000,000 products/completed operations aggregate). Coverage for products/completed operations must be maintained for at least two (2) years after the products/services work is completed. Coverage must be written on occurrence form. Contractual liability must be maintained with respect to the contractor's obligations contained in the contract. The general aggregate limit must be at least two (2) times the per-occurrence limit.
- Workers Compensation Insurance at statutory limits, including employer's liability coverage at minimum limits of \$500,000 per occurrence each accident/ \$500,000 by disease per occurrence/ \$500,000 by disease aggregate.
- Commercial Automobile Liability Insurance at minimum combined single limits of \$1,000,000 per occurrence for bodily injury and property damage, including owned, non-owned, and hired vehicle coverage.

Upshur County requires it to be named in the required certificates evidencing insurance coverage, as an additional insured by endorsement. This coverage shall include a Waiver of Subrogation in favor of Upshur County, Texas.

Upshur County also requires that should any of the insurance policies required by this contract be canceled or materially changed before the expiration date thereof, the issuing company shall give Upshur County, Texas through its County Road Administrator, Andy Jordan, PO Box 730, Gilmer, Texas 75644, thirty (30) days written notice of same.

Upshur County
Bid UP01-23 Gasoline and Diesel Fuel
Instructions/Terms of Contract

Termination for Default: Upshur County reserves the right to enforce the performance of this contract in any manner prescribed by law or deemed to be in the best interest of the County in the event of breach or default. Upshur County reserves the right to terminate the contract immediately and without prior notice in the event the successful bidder fails to:

1. Meet schedules;
2. Defaults in the payment of any fees; or
3. Otherwise fails to perform in accordance with these specifications.

Notice: Any notice provided by this bid (or required by law) to be given to the successful bidder by Upshur County shall be conclusively deemed to have been given and received on the next day after such written notice has been deposited in the U.S. mail in Gilmer, Texas, with sufficient 1st class postage affixed thereto, provided this shall not prevent the giving of actual notice in any other manner.

Purchase Order: Successful bidder shall be required by this agreement to clearly and plainly reference a valid Upshur County Purchase Order number on the face of each and every invoice tendered for payment. Failure to reference a valid Upshur County Purchase Order, as herein required, shall be considered sufficient cause for Upshur County to deny payment of said claim. Upshur County shall not be obligated for products or services delivered without prior authorization via purchase order.

Invoices: Payment will be made from original vendor invoices only. Invoices shall show all information as stated above and mailed directly to the Upshur County Auditor's Office, PO Box 730, Gilmer, Texas 75644.

Payment will be made upon receipt and acceptance, by the County, of the items ordered in accordance with the Texas Government Code, Section 2251.021. Each Successful bidder is required to pay all its subcontractors within ten (10) days.

Warranty: Successful bidder shall warrant that all items/services shall conform to the proposed specifications and all written warranties as well as all implied warranties as shown in the Uniform Commercial Code, and shall be free from all latent and patent defects in material, workmanship and title.

Venue: This agreement and any dispute related hereto will be governed and construed according to the laws of the State of Texas and venue shall be fixed in Upshur County, Texas.

Any questions concerning this Invitation to Bid and Specifications should be directed to Andy Jordan, Upshur County Road Administrator, at 903-843-7623.

Upshur County
Bid # UP01-23 Gasoline and Diesel Fuel
Specifications

Scope:

It is the intent of Upshur County, Texas to purchase, through the competitive bidding process, Gasoline and Diesel Fuel. The bid will be effective starting March 1, 2023 and expiring February 28, 2024 with the option to renew for two (2) additional years contingent upon both parties, but can be canceled by either party upon giving thirty (30) days written notice to the other party.

Bids must include the brand and specifications of fuel. Delivery of fuel will normally be by the transport load and shall be delivered within twenty-four (24) hours after the order is placed.

Testing:

Gasoline and Diesel Fuel are subject to testing by the County in a competent testing laboratory. Should tests indicate fuels are not meeting specifications, Upshur County reserves the right to cancel the contract in case the successful bidder fails to correct the noncompliance with specifications and to invoice the bidder for testing expense.

Post-Terminal Price:

Documentation shall be from the source refinery bid and shall bear the refinery's logo and/or letterheads or shall be from the Oil Price Information Service and shall bear the OPIS logo and/or letterhead.

Documentation shall identify the refinery source, refinery location, fuel brand and/or trade name, and fuel prices corresponding to the type (s) of fuel (s) designated on the IFB, for which a bid is made.

Bidder should indicate in the space provided on the IFB, the first and last names and telephone number(s) of the source refinery employee(s) who may verify fuel price for a given day.

If fuel is delivered from a refinery other than originally bid, the vendor shall supply, with the invoice, posted terminal price documents from both the refinery location originally bid and the refinery used. Upshur County will pay the lesser of the two selling prices.

Invoices not supported by all specified terminal price documents will be retained and payment held in abeyance, until the required documentation is received.

Taxes:

Upshur County will be responsible for all applicable taxes at time of billing. Contractors shall not include any taxes on bid proposal.

Award Of Contract:

The "TOTAL BID" shall be used to determine the low bidder. Upshur County reserves the right to reject any or all bids. Upshur County reserves the right to award this bid to multiple vendors.

A copy of the jobber's invoice to the bidder shall be submitted with this bid to verify the present dock or jobber's price. Successful bidder shall submit a copy of the jobber's current dock price with each invoice.

Specifications/Minimum Requirements for Gasoline:

100% hydrocarbon, lead-free Grade A fuel meeting federal lead-free specifications and having a minimum 86 octane by Research Method and Motor Average.

Specifications/Minimum Requirements for Diesel:

Supply Ultra-Low Sulfur Diesel fuel (ULSD) compliant with current EPA regulations.

Bidding and Award of Contract

Quantities shown are approximate. Upshur County reserves the right to increase or decrease the quantities, to reject material not meeting specifications, to award separate contracts on each of the base bids, and to award contracts to more than one bidder. Upshur County will procure the material(s) covered by this bid package on any particular instance from the vendor whose price is most economical to Upshur County.

CONFIDENTIAL

Bid for Gasoline and Diesel Fuel

Upshur County is requesting bids for Gasoline and Diesel Fuel as described in the foregoing specifications. Without change in the unit price, it is expressly understood that the total quantity indicated on this bid form is only an estimate.

Having read and understood the attached instructions, specifications, terms and conditions, we submit the following bid:

<u>Quantity</u>	<u>Description</u>	<u>Unit of Measure</u>	<u>Price Per Unit</u>	<u>Total of Items</u>
50,000	Gasoline dock price as of 2:00 p.m. January 30, 2023	GAL	\$ <u>2.5531</u>	
	Profit Margin	GAL	\$ <u>+0.0690</u>	
	Total			\$ <u>131,105.00</u>
70,000	Diesel (ULSD) dock price as of 2:00 p.m. January 30, 2023	GAL	\$ <u>3.2512</u>	
	Profit Margin	GAL	\$ <u>+0.0723</u>	
	Total			\$ <u>232,645.00</u>
TOTAL BID: \$ <u>363,750.00</u>				

Additional profit margin if tanker loads are requested by Upshur County: \$ +0.1500

Margins include freight rates but are exclusive of any applicable taxes and fees.

Margins are based on 7,500 gallon deliveries from the Tyler, TX terminal.

Should product not be available at the Tyler, TX terminal, a secondary terminal will be used. Freight will be adjusted to the new rate from the adjusted terminal.

Payment terms are Net 30, 0.00% discount.

The price sheet attached is for January 30, 2023 as requested.

The additional profit margin will be added if loads are less than 7,500 gallons.

Sun Coast Resources, Inc.	76-0143483
Firm Submitting Bid 6405 Cavalcade St., Bldg. 1	Federal ID Number
Address Houston, TX 77026	
City, State, Zip Terri Bateman, Director of National Sales & Supply	national@suncoastresources.com
Name and Title of Individual Submitting Bid 713-429-6702	E-Mail Address N/A
Telephone Number	Fax Number
Signature of Authorized Representative	

References:

List three (3) companies or governmental agencies where these commodities have been provided:

1. Name: Pasadena Independent School District
1515 Cherrybook Ln
Address: Pasadena, TX 77502 Phone No. 713-740-0817
Contact person: Andy Castillo Title Shop Supervisor
2. Name: City of Tomball
401 Market St.
Address: Tomball, TX 77375 Phone No. 281-290-1425
Contact person: Lexi McMinn Title Administrative Assistant
3. Name: Houston Independent School District
4400 West 18th St.
Address: Houston, TX 77092 Phone No. 713-556-6534
Contact person: Janice James Title Category Specialist, Purchasing Services

CONFIDENTIAL

DK Trading & Supply
 FIN1 0467 PRF-2221 01-27-23 START MSG *FOR 01/30/23*
 DKTS Unbranded Rack

LOCATION	EFF DATE	TIME	PRODUCT	CHANGE	PRICE
BIG SANDY TX DELEK	01/27/23	18:00	UNL87HE10	-0.0245	2.5531
BIG SANDY TX DELEK	01/27/23	18:00	87LE10	0.0000	9.9999
BIG SANDY TX DELEK	01/27/23	18:00	PRE93HE10	0.0000	9.9999
BIG SANDY TX DELEK	01/27/23	18:00	93 LE10	0.0000	9.9999
BIG SANDY TX DELEK	01/27/23	18:00	ULSDLE	-0.1325	3.2512
BIG SANDY TX DELEK	01/27/23	18:00	ULSDLED	-0.1325	3.2562
BIG SPRING TX DELEK	01/27/23	18:00	UNL87HE10	-0.0252	2.4528
BIG SPRING TX DELEK	01/27/23	18:00	PRMHE10	-0.0252	2.8928
BIG SPRING TX DELEK	01/27/23	18:00	ULSD	-0.1325	3.3632
BIG SPRING TX DELEK	01/27/23	18:00	ULSDDYE	-0.1325	3.3667
BIG SPRING TX DELEK	01/27/23	18:00	ULSD5%	-0.1325	3.3632
BIG SPRING TX DELEK	01/27/23	18:00	ULSD5%D	-0.1325	3.3667
CADDO MILLS TX SUNOCO	01/27/23	18:00	UNL 87WRF	-0.0245	2.7516
CADDO MILLS TX SUNOCO	01/27/23	18:00	UNL87HE10	-0.0245	2.5931
CADDO MILLS TX SUNOCO	01/27/23	18:00	87LE10	0.0000	9.9999
CADDO MILLS TX SUNOCO	01/27/23	18:00	PREM 93WR	-0.0274	2.9541
CADDO MILLS TX SUNOCO	01/27/23	18:00	PRE93HE10	-0.0269	2.9153
CADDO MILLS TX SUNOCO	01/27/23	18:00	93 LE10	0.0000	9.9999
CADDO MILLS TX SUNOCO	01/27/23	18:00	ULSDLE	-0.1325	3.2512
CADDO MILLS TX SUNOCO	01/27/23	18:00	ULSDLED	-0.1325	3.2562
EL PASO TX MAGELLAN	01/27/23	18:00	UNL86HE10	-0.0381	4.0886
EL PASO TX MAGELLAN	01/27/23	18:00	UNL87HE10	-0.0381	4.0986
EL PASO TX MAGELLAN	01/27/23	18:00	PRMHE10	-0.0381	4.3986
EL PASO TX MAGELLAN	01/27/23	18:00	ULSD	-0.0760	4.9347
EL PASO TX MAGELLAN	01/27/23	18:00	ULSDDYE	-0.0760	4.9382
MOUNT PLEASANT TX DELEK	01/27/23	18:00	UNL87HE10	-0.0245	2.5831
MOUNT PLEASANT TX DELEK	01/27/23	18:00	87LE10	0.0000	9.9999
MOUNT PLEASANT TX DELEK	01/27/23	18:00	PRE93HE10	-0.0269	2.9053
MOUNT PLEASANT TX DELEK	01/27/23	18:00	93 LE10	0.0000	9.9999
MOUNT PLEASANT TX DELEK	01/27/23	18:00	ULSD	-0.1325	3.2812
MOUNT PLEASANT TX DELEK	01/27/23	18:00	ULSDDYE	-0.1325	3.2862
MOUNT PLEASANT TX DELEK	01/27/23	18:00	ULSDLE	-0.1325	3.2812
MOUNT PLEASANT TX DELEK	01/27/23	18:00	ULSDLED	-0.1325	3.2862
TYLER TX DELEK	01/27/23	18:00	CONV 87 7.8	0.0000	9.9999
TYLER TX DELEK	01/27/23	18:00	CONV 87	-0.0348	2.9472
TYLER TX DELEK	01/27/23	18:00	UNL87HE10	-0.0245	2.5531
TYLER TX DELEK	01/27/23	18:00	87LE10	0.0000	9.9999
TYLER TX DELEK	01/27/23	18:00	CONV 91	-0.0222	3.1604
TYLER TX DELEK	01/27/23	18:00	PRE93HE10	-0.0269	2.8753
TYLER TX DELEK	01/27/23	18:00	93 LE10	0.0000	9.9999
TYLER TX DELEK	01/27/23	18:00	ULSD	-0.1325	3.2512
TYLER TX DELEK	01/27/23	18:00	ULSDDYE	-0.1325	3.2562
TYLER TX DELEK	01/27/23	18:00	ULSDLE5	-0.1325	3.2512
TYLER TX DELEK	01/27/23	18:00	ULSDLE	-0.1325	3.2512
TYLER TX DELEK	01/27/23	18:00	ULSDLED	-0.1325	3.2562
TYLER TX DELEK	01/27/23	18:00	JET A	0.0000	3.7658
TYLER TX DELEK	01/27/23	18:00	88 E15	-0.0236	2.6464
TYLER TX DELEK	01/27/23	18:00	AVGAS	0.0000	3.6737
TYLER TX DELEK	01/27/23	18:00	CONV 91 LRVP	0.0000	9.9999
TYLER TX DELEK	01/27/23	18:00	JET ADD	0.0000	3.7733



EXCEPTIONS PAGE

UPSHUR COUNTY, TEXAS

Bid # UP01-23

Gasoline and Diesel Fuel

Sun Coast Resources, Inc.'s ("SCRI"), bid and all signatures contained therein are subject to and conditioned upon the following exceptions and SCRI's ability to negotiate any formal contract or purchase order(s) resulting from such bid.

GENERAL

1. **Subsequent Contract:** Notwithstanding anything to the contrary, SCRI reserves the right to negotiate any additional or contrary terms or conditions that may be contained within a contract, purchase order, or any other governing document resulting from this bid. Furthermore, SCRI shall not be obligated to comply with any terms or conditions not expressly included within the bid documents or not otherwise executed by SCRI.

SPECIFIC

General Conditions

2. **Page 7 – Hold Harmless Agreement:** Because Bidder does not agree to be liable for the negligence of the County or third parties, Bidder requests that this provision be edited to read as follows:

“The successful bidder shall indemnify and hold Upshur County harmless from all claims for personal injury, death and/or property damage to the extent resulting directly or indirectly from contractor's performance. Notwithstanding anything to the contrary, Bidder shall not be liable for the negligence or more culpable conduct of the County or any third parties. Bidder shall procure and maintain, with respect to the subject matter of this bid, appropriate insurance coverage. Certification of such coverage must be provided to the County upon request.”

Instructions/Terms of Contract

3. **Page 10 – Insurance Requirements (Commercial General Liability):** Because the products made the basis of this bid are perishable, volatile, consumable, have a shelf life, and are of a nature that the County's proper storage, handling, and/or use will determine their quality or ability to meet specifications following delivery, and the fact that the fuel will be used/burned within a short time

of delivery (making such term inapplicable), Bidder requests that the following sentence be deleted from the Insurance Requirements: "Coverage for products/completed operations must be maintained for at least two (2) years after the products/services work is completed."

4. Page 11 – Warranty: Because the products made the basis of this bid are perishable, volatile, consumable, have a shelf life, and are of a nature that the County's proper storage, handling, and/or use will determine their quality or ability to meet specifications following delivery, and the fact that SCRI has no control over the storage or handling following delivery, Bidder requests that the language in the Warranty section be deleted in full and replaced in its entirety with the following:

"Notwithstanding anything to the contrary, the successful bidder shall only warrant that the goods delivered hereunder shall meet the expressly required quality standards and/or specifications at the time of delivery. Successful bidder hereby disclaims and Upshur County hereby waives any and all other warranties, express and implied, that may now or in the future apply to such goods."

Specifications

5. Page 12 – Scope: We have an extensive emergency response department within our company which has been recognized nationally for our work with first responders during all the major storms over the past 10 plus years. Sun Coast also has a contract with the State of Texas to provide fuel to first responders during periods of peril. In the event there is a need for the Emergency Response Program, this would be subject to a separate contract and agreement for Emergency Services. In the absence of such an agreement, any delivery would be made on a best-efforts basis, in as timely a fashion as reasonably possible. As such, Bidder requests that the second paragraph of the "Scope" section, on page 12, be amended to read as follows:

"Bids must include the brand and specifications of fuel. Delivery of fuel will normally be by the transport load and ~~shall be delivered~~ Bidder shall use best efforts to deliver within twenty-four (24) hours after the order is placed."

6. Page 12 – Post-Terminal Price: Because 1.) the refinery does not provide pricing to Bidder on the refinery's letterhead; 2.) the bid is based on rack price; 3.) Bidder is contractually prohibited from providing OPIS reports to third parties (as are all OPIS subscribers); and 4.) Bidder cannot provide individual contact information for refinery employees, Bidder requests that this section be replaced in its entirety with the following language:

"Bidder shall provide a copy of the rack price (as supplied by the fuel terminal) along with its invoice."

7. Page 13 – Award of Contract: Because Bidder will not be using jobbers for this work, Bidder requests that the following language be deleted in its entirety:

"A copy of the jobber's invoice to the bidder shall be submitted with this bid to verify the present dock or jobber's price. Successful bidder shall submit a copy of the jobber's current dock price with each invoice."

8. Page 13, Proposed New Section – Force Majeure: Bidder requests the following force majeure language be added to the Specifications:

“Notwithstanding anything to the contrary, except for payment obligations, neither Party shall be liable for any delay or inability to carry out any of its obligations hereunder when such delay or inability is due to a Force Majeure event. Force Majeure includes, but is not limited to, any acts of God, fires, hurricanes, floods, wars, terrorism, pandemics, strikes, civil unrest, or any other causes not reasonably within the control of the Party claiming such delay or inability.”

(Material) Safety Data Sheet



Section 1 - Product and Company Identification

- Material Name** ▪ **Delek Gasolines, All Grades Unleaded**

- Product Description** ▪ Transparent, clear to amber or red liquid with pungent, characteristic gasoline odor.
- Synonyms** ▪ Automobile Motor Fuels; Finished Gasolines; Gasoline, Mid-grade Unleaded; Gasoline, Premium Unleaded; Gasoline, Regular Unleaded; Motor Gasolines; Petrol; Unleaded Gasolines

- Manufacturer** ▪ Delek Refining, Ltd.
 425 McMurrey Drive
 Tyler, TX 75702
 United States
 www.delekus.com

- Telephone**
- General** ▪ 903-579-3400
- General** ▪ 903-579-3502 - Fax
- Emergency** ▪ (800) 424-9300 - 24 Hour CHEMTREC - National
- Emergency** ▪ (703) 527-3887 - 24 Hour CHEMTREC - International

- Preparation Date** ▪ 02/09/2011
- Last Revision Date** ▪ 02/09/2011

Section 2 - Hazards Identification

Emergency Overview

DANGER

Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation. May cause genetic defects. May cause cancer via Inhalation. Suspected of damaging fertility or the unborn child. Causes damage to organs -Ear, Nervous System, Central Nervous System (CNS), Peripheral Nervous System (PNS), Brain, Blood and/or Immune System, Anemia, Bone Marrow, Liver, Kidney through prolonged or repeated exposure via Inhalation, Ingestion/Oral, Skin. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Prevention Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. Keep cool. Ground and/or bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use explosion-proof- electrical, ventilating and/or lighting equipment. Keep container tightly closed. Use personal protective equipment as required. Wear protective gloves, clothing -Full Body Suit, and eye/face protection goggles, . Do not breathe dust, fume, gas, mist, vapours and/or spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Avoid release to

the environment.

Response

In case of fire: Use appropriate media for extinction. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Specific treatment, see supplemental first aid information. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention. Collect spillage.

Storage/Disposal Store in a well-ventilated place. Keep cool. Store locked up. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.



Flammable liquid. Irritating to eyes, skin, and mucous membranes. Aspiration hazard if swallowed. Can enter lungs and cause damage. May cause cancer, reproductive and mutagenic effects.

Physical Form

- Liquid

Color

- Transparent, clear to amber or red liquid.

Odor

- Characteristic gasoline odor

Flash Point

- -45.4 F (-43 C)

UEL

- 7.6 %

LEL

- 1.4 %

OSHA

- Flammable Liquid, Flammable/Combustible - Class IB, Toxic, Irritant, Carcinogen

WHMIS

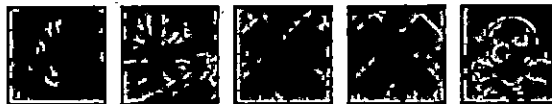
- Class B - Flammable and Combustible Materials - Division 2, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision B



EU

- Highly Flammable - F, Dangerous to the Environment - N, Harmful - Xn, Irritant - Xi, Substances Toxic To Reproduction - Category 3 - Repr.Cat.3, Mutagenic Substances - Category 2 - Muta.Cat.2, Carcinogenic Substances - Category 1 - Carc.Cat.1

R11, R52, R53, R48/20/21/22, R65, R67, R38, R45, R46, R62, R63



GHS

- Flammable Liquids - Category 2, Acute Hazards to the aquatic environment - Category 1, Chronic Hazards to the aquatic environment - Category 1, Specific Target Organ Toxicity Single Exposure - Category 3, Specific Target Organ Toxicity Repeated Exposure - Category 1, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2A, Germ Cell Mutagenicity - Category 1 A/B, Carcinogenicity - Category 1A, Aspiration - Category 1, Toxic to Reproduction - Category 2

Route Of Entry

- Inhalation, Skin, Eye, Ingestion/Oral

Target Organs

- Ear/Ototoxin, Nervous System, Central Nervous System (CNS), Peripheral Nervous System (PNS), Brain, Blood and/or Immune System, Anemia, Bone Marrow, Liver/Heptatoxin, Kidney/Nephrotoxin

Medical Conditions Aggravated by Exposure

- Gastrointestinal/Digestive/Colon, Eye/Ocular/Blindness, Ear/Ototoxin, Skin/Dermal, Lungs, Nervous System, Central Nervous System (CNS) Peripheral Nervous System (PNS) Brain, Blood and/or Immune System, Anemia, Bone Marrow, Heart/Cardiovascular System, Liver/Heptatoxin, Kidney/Nephrotoxin,

NFPA:



Potential Health Effects

Inhalation

Acute (Immediate)

- May cause irritation. High vapor concentrations can produce central nervous system depression.

Chronic (Delayed)

- Repeated or prolonged inhalation can degenerate the liver, kidney, and cause hypoplasia of bone marrow. Repeated or prolonged exposure to hexane and cyclohexane may affect the peripheral nervous system with symptoms ranging from parasthesia to paralysis in the case of extreme overexposure. Toluene may also cause sensitization to Epinephrine or other Adrenalin-like agents.

Skin

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- Petroleum products are skin defatting agents and can cause dermatitis on prolonged or repeated exposure. Repeated or prolonged exposure may cause damage to peripheral nervous system with symptoms ranging from tingling of the skin to paralysis.

Eye

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- No data available.

Ingestion

Acute (Immediate)

- Aspiration into the lungs may cause chemical pneumonitis. May cause gastrointestinal disturbances including diarrhea, nausea, and vomiting.

Chronic (Delayed)

- No data available.

Mutagenic Effects

- Repeated and prolonged exposure may cause mutagenic effects.

Carcinogenic Effects

- Repeated and prolonged exposure may cause cancer.

Carcinogenic Effects				
	CAS	IARC	NTP	OSHA
Benzene	71-43-2	Group 1-Carcinogenic	Known Human Carcinogen	Specifically Regulated Carcinogen
Styrene	100-42-5	Group 2B-Possible Carcinogen	Not established	Not established
Naphthalene	91-20-3	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen	Not established
Ethylbenzene	100-41-4	Group 2B-Possible Carcinogen	Evidence of Carcinogenicity	Not established

Reproductive Effects

- Repeated and prolonged exposure may affect the reproductive system.

Other Chronic Effects

- Humans who were occupationally exposed to concentrations of toluene as low as 100 ppm for long periods of time have experienced hearing deficits. Hearing loss, as demonstrated using behavioral and electrophysiological testing, as well as by observation of structural damage to cochlear hair cells, occurred in experimental animals exposed to toluene. It also appears that toluene exposure and noise may interact to produce hearing deficits.

Potential Environmental Effects

- This product, its storage tank bottoms and sludge, and any contaminated soil or water may be hazardous to human, animal, and aquatic life. Volatile components of this product may contribute to smog.

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

Hazardous Components						
Chemical Name	CAS	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Octane Isomers		5% TO 20%	NDA	NDA	NDA	NDA
Pentanes		5% TO 20%	NDA	NDA	NDA	NDA
Toluene	108-88-3	1% TO 20%	UN1294, 203-625-9	Ingestion/Oral-Rat LD50: =636 mg/kg Inhalation-Rat LC50: =49 g/m ³ /4 Hour(s) Skin-Rabbit LD50: =14100 µL/kg	F; R11 Xi; R38 Xn; R48/20 R65 Repr.Cat.3; R63 R67	NDA
Xylene	1330-20-7	1% TO 18%	UN1307, 215-535-7	Ingestion/Oral-Rat LD50: =4300 mg/kg Inhalation-Rat LC50: =5000 ppm/4 Hour(s) Skin-Rabbit LD50: >1700 mg/kg	R10 Xn; R20/21 Xi; R38	NDA
Heptane Isomers		5% TO 15%	NDA	NDA	NDA	NDA
Hexane isomers		5% TO 15%	NDA	NDA	NDA	NDA
2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	201-142-8	Inhalation-Rat LC50: =280000 mg/m ³ /4 Hour(s)	F+; R12 N; R51 R53 Xn; R65 R66 R67	NDA
Butane	106-97-8	0% TO 10%	UN1011, 203-448-7	Inhalation-Rat LC50: =658 g/m ³ /4 Hour(s)	F+; R12	NDA
Nonane Isomers		0% TO 10%	NDA	NDA	NDA	NDA
Hexane	110-54-3	1% TO 8%	203-777-6	Ingestion/Oral-Rat LD50: =25 g/kg Inhalation-Rat LC50: =48000 ppm/4 Hour(s)	F; R11 Xi; R38 N; R51 R53 Repr.Cat.3; R62 Xn; R65 R48/20 R67	NDA
Benzene, trimethyl-	25551-13-7	1% TO 5%	247-099-9	Ingestion/Oral-Rat LD50: =8970 mg/kg	NDA	NDA
Methylcyclohexane	108-87-2	1% TO 5%	UN2296, 203-624-3	Ingestion/Oral-Rat LD50: >3200 mg/kg Inhalation-Rabbit LC50: =15227 ppm/1 Hour(s)	F; R11 Xi; R38 N; R51 R53 Xn; R65 R67	NDA
Benzene	71-43-2	0% TO 4.9%	UN1114, 200-753-7	Ingestion/Oral-Rat LD50: =930 mg/kg Inhalation-Rat LC50: =10000 ppm/7 Hour(s) Skin-Rabbit LD50: >9400 µL/kg Ingestion/Oral-Rat LD50: =1800 mg/kg	F; R11 Xi; R36/38 Carc.Cat.1; R45 Muta.Cat.2; R46 T; R48/23/24/25 Xn; R65	NDA
1-Methylethylbenzene	98-82-8	0.5% TO 4%	UN1918, 202-704-5	Ingestion/Oral-Rat LD50: =1400 mg/kg Skin-Rabbit LD50: =12300 µL/kg Inhalation-Rat LC50: =8000 ppm	R10 Xi; R37 N; R51 R53 Xn; R65	NDA
Ethylbenzene	100-41-4	0.2% TO 4%	UN1175, 202-849-4	Ingestion/Oral-Rat LD50: =3500 mg/kg Skin-Rabbit LD50: =17800 µL/kg Inhalation-Rat LC50: =55000 mg/m ³ /2 Hour(s) Skin-Rabbit LD50: >5000 mg/kg	F; R11 Xn; R20	NDA

Ethyl toluene	25550-14-5	1% TO 3%	247-093-6	NDA	NDA	NDA
Hexene, All Isomers		1% TO 3%	NDA	NDA	NDA	NDA
Methylcyclopentane	96-37-7	1% TO 3%	UN2298, 202-503-2	NDA	NDA	NDA
Cyclohexane	110-82-7	0% TO 3%	UN1145, 203-806-2	Ingestion/Oral-Rat LD50: =12705 mg/kg	F; R11 Xi; R38 N; R50 R53 Xn; R65 R67	NDA
Cyclopentane	287-92-3	1% TO 2%	UN1146, 206-016-6	Ingestion/Oral-Rat LD50: =11400 mg/kg Inhalation-Rat LC50: =106000 mg/m ³	F; R11 R52 R53	NDA
Naphthalene	91-20-3	0.1% TO 2%	UN1334, UN2304, 202-049-5	Skin-Rabbit LD50: >20 g/kg	Xn; R22 Carc.Cat.3; R40 N; R50 R53	NDA
Benzene, propyl-	103-65-1	0.5% TO 1.5%	UN2364, 203-132-9	Ingestion/Oral-Rat LD50: =6040 mg/kg Inhalation-Rat LC50: =65000 ppm/2 Hour(s)	R10 Xi; R37 N; R51 R53 Xn; R65	NDA
Indene	95-13-6	0.5% TO 1.5%	202-393-6	Inhalation-Rat LC50: =14000 mg/m ³ /4 Hour(s)	NDA	NDA
Styrene	100-42-5	0% TO 1%	UN2055, 202-851-5	Ingestion/Oral-Rat LD50: =2650 mg/kg Inhalation-Rat LC50: =2770 ppm/4 Hour(s)	R10 Xn; R20 Xi; R36/38	NDA

Under United States Regulations (29 CFR 1900.1200 - Hazard Communication Standard), this product is considered hazardous. In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS). This product is considered dangerous according to the European Directive 67/548/EEC. According to the Globally Harmonized Standard for Classification and Labeling (GHS) this product is considered hazardous.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

- Inhalation**
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Seek medical attention.
- Skin**
- IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation occurs: Get medical advice/attention.
- Eye**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If person is drowsy or unconscious and vomiting, place on the left side with the head down. Seek medical attention.

See Section 2 for Potential Health Effects.

Section 5 - Fire Fighting Measures

- Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.
 - SMALL FIRES: Dry chemical, CO₂, water spray, inert gas, or regular foam.
- Unsuitable Extinguishing Media**
- No data available.
- Firefighting Procedures**
- Move containers from fire area if you can do it without risk.
 - FIRE: If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.
 - LARGE FIRES: Dike fire control water for later disposal; do not scatter the material.
 - FIRE INVOLVING TANKS AND CAR/TRAILER LOADS: Fight fire from maximum

distance or use unmanned hose holders or monitor nozzles.
 FIRES INVOLVING TANKS OR CAR/TRAILER LOADS: Cool containers with flooding quantities of water until well after fire is out.
 FIRES INVOLVING TANKS OR CAR/TRAILER LOADS: Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
 FIRES INVOLVING TANKS OR CAR/TRAILER LOADS: ALWAYS stay away from tanks engulfed in fire.
 FIRES INVOLVING TANKS OR CAR/TRAILER LOADS: For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

- Unusual Fire and Explosion Hazards**
 - **HIGHLY FLAMMABLE:** Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may form explosive mixtures with air. Vapor explosion hazard indoors, outdoors or in sewers. Vapors may travel to source of ignition and flash back.
- Hazardous Combustion Products**
 - Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons, aldehydes and other products of incomplete combustion.
- Protection of Firefighters**
 - Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Flash Point**
 - -45.4 F(-43 C) TCC (Tagliabue Closed Cup)
- Explosion Limits**
 - Upper 7.6
 - Lower 1.4
- Autoignition Temperature**
 - 536 F(280 C)

See Section 8 (Exposure Controls/Personal Protection)

Section 6 - Accidental Release Measures

- Personal Precautions**
 - Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Emergency Procedures**
 - **ELIMINATE** all ignition sources (no smoking, flares, sparks or flames in immediate area) As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Stop leak if you can do it without risk. Ventilate closed spaces before entering.
- Environmental Precautions**
 - Prevent entry into waterways, sewers, basements or confined areas.
- Containment/Clean-up Measures**
 - Immediate clean-up of spill is recommended. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. **LARGE SPILLS:** Dike far ahead of liquid spill for later disposal. **LARGE SPILLS:** Water spray may reduce vapor; but may not prevent ignition in closed spaces.
- Prohibited Materials**
 - No data available
- General Information**
 - If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (Phone number 800-424-8802)

Section 7 - Handling and Storage

- Handling**
 - Empty containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other

sources of ignition. They may explode and cause injury or death. Keep away from heat, sparks, and flame – No Smoking. Bond and ground all equipment when transferring from one vessel to another. Product can accumulate static charge by flow or agitation. Do not enter confined spaces such as tanks or pits without following proper entry procedures.

Storage

- Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Store only in approved containers. Store locked up. Keep container tightly closed. Containers should be clearly labeled. Protect containers against physical damage. Keep away from incompatible materials. Keep away from fire.

**Special Packaging Materials
Incompatible Materials or
Ignition Sources**

- No data available.
- Keep away from ignition sources.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

Pictograms



Respiratory

- Use NIOSH approved respiratory protection (US requirements) Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear protective eyewear (goggles, face shield, or safety glasses).

Hands

- Chemical-resistant, impervious gloves should be when handling this product.

Skin/Body

- Avoid skin contact. Wear long-sleeved fire-retardant garments (e.g., Nomex®) while working with flammable and combustible liquids. Additional chemical-resistant protective gear may be required if splashing or spraying conditions exist. This may include an apron, boots and additional facial protection. If product comes in contact with clothing, immediately remove soaked clothing and shower. Promptly remove and discarded contaminated leather goods.

**General Industrial Hygiene
Considerations**

- Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, or smoking.

**Engineering
Measures/Controls**

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash station and quick-drench shower facility should be available in the work area.

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	Europe	NIOSH
2-Methylbutane (In Liquid form) (78-78-4)	TWAs	600 ppm TWA	Not established	Not established	1000 ppm TWA; 3000 mg/m3 TWA	Not established
Cyclohexane (110-82-7)	TWAs	100 ppm TWA	100 ppm TWAEV	300 ppm TWAEV; 1030 mg/m3 TWAEV	200 ppm TWA; 700 mg/m3 TWA	300 ppm TWA; 1050 mg/m3 TWA
Nonane (111-84-2)	TWAs	200 ppm TWA	200 ppm TWAEV; 1050 mg/m3 TWAEV	200 ppm TWAEV; 1050 mg/m3 TWAEV	Not established	200 ppm TWA; 1050 mg/m3 TWA
Styrene (100-42-5)	STELs	40 ppm STEL	100 ppm STEV	100 ppm STEV; 426 mg/m3 STEV	Not established	100 ppm STEL; 425 mg/m3 STEL
	TWAs	20 ppm TWA	35 ppm TWAEV	50 ppm TWAEV; 213 mg/m3 TWAEV	Not established	50 ppm TWA; 215 mg/m3 TWA
Benzene (71-43-2)	STELs	2.5 ppm STEL	2.5 ppm STEV (applies to workplaces to which the designated substance regulation does not apply); 2.5 ppm STEV (designated substances regulation)	5 ppm STEV; 15.5 mg/m3 STEV	Not established	1 ppm STEL
	TWAs	0.5 ppm TWA	0.5 ppm TWAEV (applies to workplaces to which the designated substance regulation does not apply); 0.5 ppm TWAEV (designated substance regulation)	1 ppm TWAEV; 3 mg/m3 TWAEV	Not established	0.1 ppm TWA
Butane (106-97-8)	TWAs	1000 ppm TWA	800 ppm TWAEV; 1900 mg/m3 TWAEV	800 ppm TWAEV; 1900 mg/m3 TWAEV	Not established	800 ppm TWA; 1900 mg/m3 TWA
Naphthalene (91-20-3)	STELs	15 ppm STEL	15 ppm STEV; 78 mg/m3 STEV	15 ppm STEV; 79 mg/m3 STEV	Not established	15 ppm STEL; 75 mg/m3 STEL
	TWAs	10 ppm TWA	10 ppm TWAEV; 52 mg/m3 TWAEV	10 ppm TWAEV; 52 mg/m3 TWAEV	Not established	10 ppm TWA; 50 mg/m3 TWA
Ethylbenzene (100-41-4)	STELs	125 ppm STEL	125 ppm STEV; 540 mg/m3 STEV	125 ppm STEV; 543 mg/m3 STEV	Not established	125 ppm STEL; 545 mg/m3 STEL
	TWAs	100 ppm TWA	100 ppm TWAEV; 435 mg/m3 TWAEV	100 ppm TWAEV; 434 mg/m3 TWAEV	Not established	100 ppm TWA; 435 mg/m3 TWA
Indene (95-13-6)	TWAs	5 ppm TWA	10 ppm TWAEV; 47 mg/m3 TWAEV	10 ppm TWAEV; 48 mg/m3 TWAEV	Not established	10 ppm TWA; 45 mg/m3 TWA
1-Methylethylbenzene (98-82-8)	TWAs	50 ppm TWA	50 ppm TWAEV; 245 mg/m3 TWAEV	50 ppm TWAEV; 246 mg/m3 TWAEV	Not established	50 ppm TWA; 245 mg/m3 TWA
Toluene (108-88-3)	STELs	Not established	Not established	Not established	100 ppm STEL; 384 mg/m3 STEL	150 ppm STEL; 560 mg/m3 STEL
	TWAs	20 ppm TWA	20 ppm TWAEV	50 ppm TWAEV; 188 mg/m3 TWAEV	50 ppm TWA; 192 mg/m3 TWA	100 ppm TWA; 375 mg/m3 TWA
Hexane (110-54-3)	TWAs	50 ppm TWA	50 ppm TWAEV; 176 mg/m3 TWAEV	50 ppm TWAEV; 176 mg/m3 TWAEV	20 ppm TWA; 72 mg/m3 TWA	50 ppm TWA; 180 mg/m3 TWA

Methylcyclohexane (108-87-2)	TWAs	400 ppm TWA	400 ppm TWAEV; 1600 mg/m3 TWAEV	400 ppm TWAEV; 1610 mg/m3 TWAEV	Not established	400 ppm TWA; 1600 mg/m3 TWA
Cyclopentane (287-92-3)	TWAs	600 ppm TWA	600 ppm TWAEV; 1720 mg/m3 TWAEV	600 ppm TWAEV; 1720 mg/m3 TWAEV	Not established	600 ppm TWA; 1720 mg/m3 TWA
Benzene, trimethyl- (25551-13-7)	TWAs	25 ppm TWA	25 ppm TWAEV; 123 mg/m3 TWAEV	25 ppm TWAEV; 123 mg/m3 TWAEV	Not established	Not established
Xylene (1330-20-7)	STELs	150 ppm STEL	150 ppm STEV; 650 mg/m3 STEV	150 ppm STEV; 651 mg/m3 STEV	Not established	Not established
	TWAs	100 ppm TWA	100 ppm TWAEV; 435 mg/m3 TWAEV	100 ppm TWAEV; 434 mg/m3 TWAEV	Not established	Not established
Octane (111-65-9)	STELs	Not established	375 ppm STEV; 1750 mg/m3 STEV	375 ppm STEV; 1750 mg/m3 STEV	Not established	Not established
	TWAs	300 ppm TWA	300 ppm TWAEV; 1400 mg/m3 TWAEV	300 ppm TWAEV; 1400 mg/m3 TWAEV	Not established	75 ppm TWA; 350 mg/m3 TWA
	Ceilings	Not established	Not established	Not established	Not established	385 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)
Heptane (142-82-5)	STELs	500 ppm STEL	500 ppm STEV; 2045 mg/m3 STEV	500 ppm STEV; 2050 mg/m3 STEV	Not established	Not established
	TWAs	400 ppm TWA	400 ppm TWAEV; 1635 mg/m3 TWAEV	400 ppm TWAEV; 1640 mg/m3 TWAEV	Not established	85 ppm TWA; 350 mg/m3 TWA
	Ceilings	Not established	Not established	Not established	Not established	440 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)

Exposure Limits/Guidelines (Cont.)		
	Result	OSHA
Cyclohexane (110-82-7)	TWAs	300 ppm TWA; 1050 mg/m3 TWA
Styrene (100-42-5)	Ceilings	200 ppm Ceiling
	TWAs	100 ppm TWA
Benzene (71-43-2)	Ceilings	25 ppm Ceiling
	STELs	5 ppm STEL (see 29 CFR 1910.1028)
	TWAs	10 ppm TWA (applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028); 1 ppm TWA
Naphthalene (91-20-3)	TWAs	10 ppm TWA; 50 mg/m3 TWA
Ethylbenzene (100-41-4)	TWAs	100 ppm TWA; 435 mg/m3 TWA
1- Methylethylbenzene (98-82-8)	TWAs	50 ppm TWA; 245 mg/m3 TWA
Toluene (108-88-3)	Ceilings	300 ppm Ceiling
	TWAs	200 ppm TWA

Hexane (110-54-3)	TWAs	500 ppm TWA; 1800 mg/m ³ TWA
Methylcyclohexane (108-87-2)	TWAs	500 ppm TWA; 2000 mg/m ³ TWA
Xylene (1330-20-7)	TWAs	100 ppm TWA; 435 mg/m ³ TWA
Octane (111-65-9)	TWAs	500 ppm TWA; 2350 mg/m ³ TWA
Heptane (142-82-5)	TWAs	500 ppm TWA; 2000 mg/m ³ TWA

Exposure Control Notations

Canada Ontario

- 1-Methylethylbenzene (98-82-8): Skin: (Absorption through skin, eyes, or mucous membranes)
- Benzene (71-43-2): Designated Substances: (0.5 ppm TWAEV; 2.5 ppm STEV)

Canada Quebec

- Styrene (100-42-5): Carcinogens: (C3 carcinogen - effect detected in animals) | Skin: (Skin designation)
- Toluene (108-88-3): Skin: (Skin designation)
- Benzene (71-43-2): Carcinogens: (C1 carcinogen - effect detected in humans)
- Hexane (110-54-3): Skin: (Skin designation)

ACGIH

- Naphthalene (91-20-3): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen) | Skin: (Skin - potential significant contribution to overall exposure by the cutaneous route)
- Ethylbenzene (100-41-4): Carcinogens: (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)
- Styrene (100-42-5): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen)
- Toluene (108-88-3): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen)
- Xylene (1330-20-7): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen)
- Benzene (71-43-2): Carcinogens: (A1 - Confirmed Human Carcinogen) | Skin: (Skin - potential significant contribution to overall exposure by the cutaneous route)
- Hexane (110-54-3): Skin: (Skin - potential significant contribution to overall exposure by the cutaneous route)

Exposure Limits Supplemental

ACGIH

- Methylcyclohexane (108-87-2): TLV Basis - Critical Effects: (CNS impairment; kidney and liver damage; upper respiratory tract irritation)
- Indene (95-13-6): TLV Basis - Critical Effects: (liver damage)
- Cyclopentane (287-92-3): TLV Basis - Critical Effects: (CNS impairment; eye, skin and upper respiratory tract irritation)
- Octane (111-65-9): TLV Basis - Critical Effects: (upper respiratory tract irritation)
- Nonane (111-84-2): TLV Basis - Critical Effects: (CNS impairment)
- Naphthalene (91-20-3): TLV Basis - Critical Effects: (eye damage; eye and upper respiratory tract irritation; hematologic effects)
- Benzene, trimethyl- (25551-13-7): TLV Basis - Critical Effects: (asthma; CNS impairment; hematologic effects)
- 2-Methylbutane (In Liquid form) (78-78-4): TLV Basis - Critical Effects: (peripheral neuropathy)
- 1-Methylethylbenzene (98-82-8): TLV Basis - Critical Effects: (CNS impairment; eye, skin and upper respiratory tract irritation)
- Cyclohexane (110-82-7): TLV Basis - Critical Effects: (CNS impairment)
- Ethylbenzene (100-41-4): BEIs: (0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative); Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)) | TLV Basis - Critical Effects: (CNS impairment; eye and upper respiratory tract irritation) | Notice of Intended Changes (TLVs): (20 ppm TWA; A3 - confirmed animal carcinogen with unknown relevance to humans; BEI; TLV basis: upper respiratory tract irritation, kidney damage, cochlear impairment)
- Heptane (142-82-5): TLV Basis - Critical Effects: (CNS impairment; upper respiratory tract irritation)
- Styrene (100-42-5): BEIs: (400 mg/g creatinine Medium: urine Time: end of shift Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific); 0.2 mg/L Medium: venous blood Time: end of shift Parameter: Styrene (semi-quantitative)) | TLV Basis - Critical Effects: (CNS impairment; peripheral neuropathy; upper respiratory tract irritation)
- Toluene (108-88-3): BEIs: (0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene; 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene; 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)) | TLV Basis - Critical Effects: (female reproductive; pregnancy loss; visual impairment)
- Xylene (1330-20-7): BEIs: (1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids) | TLV Basis - Critical Effects: (CNS impairment; eye and upper respiratory tract irritation)
- Benzene (71-43-2): BEIs: (25 µg/g creatinine Medium: urine Time: end of shift Parameter: S-Phenylmercapturic acid (background); 500 µg/g creatinine Medium: urine Time: end of shift Parameter: t,t-Muconic acid (background)) | TLV Basis - Critical Effects: (leukemia)

- Butane (106-97-8): TLV Basis - Critical Effects: (cardiac sensitization; CNS impairment)
- Hexane (110-54-3): BEIs: (0.4 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 2,5-Hexanedione without hydrolysis) | TLV Basis - Critical Effects: (CNS impairment; eye irritation; peripheral neuropathy)

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
 MSHA = Mine Safety and Health Administration
 BEI = Biological Exposure Indices
 NIOSH = National Institute of Occupational Safety and Health
 OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures
 STEV = Short Term Exposure Value
 TWAEV = Time-Weighted Average Exposure Value
 TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

- Physical Form** • Liquid
Appearance/Description • Transparent, clear to amber or red liquid with pungent, characteristic gasoline odor.

Color : Transparent, clear to amber or red liquid.		Odor : characteristic gasoline.	
Taste : NDA		Odor Threshold : NDA	
Boiling Point:	100 to 400 F(37.7778 to 204.4444 C)	Vapor Pressure:	220 to 450 mmHg (torr) @ 68.00 F
Melting Point:	NDA	Vapor Density:	3 to 4 Air=1
Specific Gravity:	0.72 to 0.77	Evaporation Rate:	NDA
Density:	6.0084 to 6.4257 lbs/gal	VOC (Wt.):	NDA
Bulk Density:	NDA	VOC (Vol.):	720 to 770 g/L
pH:	NDA	Volatiles (Wt.):	NDA
Water Solubility:	Slightly Soluble	Volatiles (Vol.):	NDA
Solvent Solubility:	NDA	Flash Point:	-45.4 F(-43 C)
Viscosity:	0.35 to 1 Centistoke (cSt, cS) or mm ² /sec @ 0.35 Celsius	Flash Point Test Type:	TCC (Tagliabue Closed Cup)
Half-Life:	NDA	UEL:	7.6 %
Octanol/Water Partition coefficient:	NDA	LEL:	1.4 %
Coefficient of water/oil distribution:	NDA	Autoignition:	536 F(280 C)
Bioaccumulation Factor:	NDA	Bioconcentration Factor:	NDA
Biochemical Oxygen Demand BOD/BOD5:	NDA	Chemical Oxygen Demand:	NDA
Persistence:	NDA	Degradation:	NDA

Section 10 - Stability and Reactivity

- Stability** • Stable under normal temperatures and pressures. Vapor can cause flash fire.
- Hazardous Polymerization** • Hazardous polymerization will not occur.
- Conditions to Avoid** • Sources of ignition. Incompatible materials.
- Incompatible Materials** • Strong acids, alkalis, and oxidizers such as liquid chlorine and oxygen. If uninhibited, gasoline will cause rusting of copper and alloys containing copper.
- Hazardous Decomposition Products** • Excess heating and/or incomplete combustion may produce smoke, carbon monoxide, carbon dioxide, and other harmful gases or vapors.

Section 11 - Toxicological Information

Aspiration hazard if swallowed. Can enter lungs and cause damage. Repeated dose toxicity studies of gasoline, benzene, and toluene have resulted in cancer, reproductive effects, and mutagenic changes in experimental animals and humans.

Component Name	Concentration	CAS	Data
Octane	5% TO 20%	111-65-9	Acute Toxicity: ihl-rat LC50:25260 ppm/4H; ihl-rat LC50:118 gm/m3/4H
Toluene	1% TO 20%	108-88-3	Acute Toxicity: ori-rat LD50:636 mg/kg; ori-hmn LDLo:50 mg/kg; ihl-rat LC50:49 gm/m3/4H; ihl-hmn TCLo:200 ppm; ihl-man TCLo:50 ppm; ihl-rat TCLo:40 ppm/16W-I; ihl-rat TCLo:500 ppm/6H/3D-C; skn-rbt LD50:14100 uL/kg; Irritation: eye-hmn 300 ppm; eye-rbt 2 mg/24H SEV; eye-rbt 870 ug MLD; skn-rbt 20 mg/24H MOD; Mutagen: sce-hmn-ihl 252 ug/L/19Y; cyt-rat-ihl 5400 ug/m3/16W-I; Reproductive: ihl-mus TCLo:200 ppm/7H (7-16D preg); ihl-rbt TCLo:1 gm/m3/24H (7-20D preg); ihl-rat TCLo:800 mg/m3/6H (14-20D preg); ihl-rbt TDLo:100 ppm/6H (6-18D preg)
Xylene	1% TO 18%	1330-20-7	Acute Toxicity: skn-rat TDLo:960 uL/kg/4D-I; Irritation: eye-hmn 200 ppm; Reproductive: ihl-rbt TCLo:1 gm/m3/24H (7-20D preg)
Heptane	5% TO 15%	142-82-5	Acute Toxicity: ori-rat TDLo:260 gm/kg/13W-I; ihl-rat LC50:103 gm/m3/4H; ihl-rat TCLo:4000 ppm/6H/28D-I; ihl-rat TCLo:420 mg/m3/12H/2W-I
2-Methylbutane (In Liquid form)	0% TO 10%	78-78-4	Acute Toxicity: ori-rat TDLo:10 gm/kg/4W-I; ihl-rat LC50:280000 mg/m3/4H; ihl-rat TCLo:270000 mg/m3/2H
Butane	0% TO 10%	105-97-8	Acute Toxicity: ihl-rat LC50:658 gm/m3/4H; ihl-hmn TCLo:280 mg/m3
Nonane	0% TO 10%	111-84-2	Acute Toxicity: ori-rat TDLo:90 gm/kg/90D-I; ihl-rat LC50:3200 ppm/4H; ihl-rat TCLo:1600 ppm/6H/13W-I; skn-rat TDLo:1200 uL/kg/4D-I; Irritation: skn-rat 300 uL/4D open MOD
Hexane	1% TO 8%	110-54-3	Acute Toxicity: ori-rat LD50:25 gm/kg; ori-rat TDLo:40 gm/kg/4W-I; ihl-rat LC50:48000 ppm/4H; ihl-rat TCLo:1 pph/6H/13W-I; Irritation: eye-rbt 10 mg MLD; Mutagen: cyt-rat-scu 7.5 mL/kg/12W-I; Reproductive: ihl-rat TCLo:1000 ppm (6-19D preg); ihl-rat TCLo:5000 ppm (6-19D preg); ihl-rat TCLo:1000 ppm/6H (8-16D preg); Tumorigen/Carcinogen: ihl-rat TCLo:1000 ppm/4H/59W-I
Benzene, trimethyl-	1% TO 5%	25551-13-7	Acute Toxicity: ori-rat LD50:8970 mg/kg; Irritation: skn-rbt 500 mg/24H MOD
Methylcyclohexane	1% TO 5%	108-87-2	Acute Toxicity: ori-rat LD50:>3200 mg/kg; ihl-rat LCLo:82 gm/m3/1H; ihl-rat TCLo:11 gm/m3/6H/5D-I; skn-rbt LD :>86700 mg/kg; Irritation: eye-rbt 100 uL/24H MLD; skn-rbt 500 uL/24H MLD
Benzene	0% TO 4.9%	71-43-2	Acute Toxicity: ihl-hmn LCLo:65 mg/m3/5Y; ihl-hmn LCLo:2 pph/5M; ihl-hmn LCLo:2 pph/2M; Irritation: eye-rbt 2 mg/24H SEV; skn-rat 60 uL/8H open MLD; Mutagen: dnr-hmn-ihl 24.4 ppb/8H; dni-rbt-scu 2 gm/kg; oms-hmn:lym 5 umol/L; msc-hmn:lym 1 gm/L; oms-rbt:bmr 1 mmol/L; Reproductive: ihl-rbt TCLo:500 ppm/7H (6-18D preg); ihl-rat TCLo:50 ppm/24H (7-14D preg); Tumorigen/Carcinogen: ihl-hmn TC :8 ppb/4W-I; ihl-hmn TC :150 ppm/15M/8Y-I; ihl-hmn TCLo:10 ppm/8H/10Y-I
1-Methylethylbenzene	0.5% TO 4%	98-82-8	Acute Toxicity: ori-rat LD50:2.9 gm/kg; ori-rat LD50:1400 mg/kg; ihl-rat LC50:8000 ppm; ihl-rat TCLo:300 ppm/30M; skn-rbt LD50:12300 uL/kg; Irritation: eye-rbt 86 mg MLD; skn-rbt 10 mg/24H open MLD; Mutagen: mmo-sat 100 ug/plate/3H (-S9)
Ethylbenzene	0.2% TO 4%	100-41-4	Acute Toxicity: ori-rbt TDLo:1386 mg/kg/24W-C; ihl-hmn TCLo:10 ppm/4H; Irritation: skn-rbt 15 mg/24H open MLD; Reproductive: ihl-rat TCLo:96 ppm/7H (1-19D preg); Tumorigen/Carcinogen: ihl-rat TCLo:750 ppm/6H/2Y-I
Methylcyclopentane	1% TO 3%	96-37-7	Acute Toxicity: ori-rat TDLo:10 gm/kg/4W-I; ihl-mus LCLo:95 gm/m3; ihl-mus LCLo:95000 mg/m3

Cyclohexane	0% TO 3%	110-82-7	Acute Toxicity: orl-rat LD50:12705 mg/kg; ihl-rat TCLo:300 ppm/6H/2W-I; ihl-rat TCLo:2000 ppm/13W-I; skn-rbt LD >:180 gm/kg; Irritation: skn-rbt 1548 mg/2D-I; Mutagen: dna-esc 10 umol/L
Cyclopentane	1% TO 2%	287-92-3	Acute Toxicity: ocu-rbt TDLo:100 pph; ihl-rat LC50:106000 mg/m3
Naphthalene	0.1% TO 2%	91-20-3	Acute Toxicity: orl-chd LDLo:100 mg/kg; orl-rbt LDLo:3 gm/kg; orl-mus TDLo:158 mg/kg; orl-rat TDLo:500 mg/kg/10D-I; orl-rat TDLo:600 mg/kg/4D-I; orl-rat TDLo:10 gm/kg/10D-I; ihl-hmn TCLo:250 mg/m3; ihl-rat TCLo:10 ppm/6H; skn-rbt LD50:>20 gm/kg; skn-rat LC50:>2500 mg/kg; skn-rbt TDLo:0.03 mL/kg/24H; Irritation: skn-rbt 0.05 mL/24H SEV; Mutagen: slit-dmg-ori 5 mmol/L; mnt-hmn:lym 30 mg/L; Reproductive: orl-mus TDLo:2400 mg/kg (7-14D preg); Tumorigen/Carcinogen: ihl-rat TCLo:10 ppm/6H/105W-I; ihl-rat TCLo:1890 mg/kg/105W-I
Benzene, propyl-	0.5% TO 1.5%	103-65-1	Acute Toxicity: orl-rat LD50:6040 mg/kg; ihl-rat LC50:65000 ppm/2H
Indene	0.5% TO 1.5%	95-13-6	Acute Toxicity: ihl-rat LC50:14000 mg/m3/4H; ihl-rat TCLo:3 mg/m3/24H/15W-C
Styrene	0% TO 1%	100-42-5	Acute Toxicity: orl-rat LD50:2650 mg/kg; ihl-rat LC50:2770 ppm/4H; ihl-hmn LCLo:10000 ppm/30M; ihl-rat TCLo:40000 mg/m3/2H; skn-rat TDLo:26.4 mg/kg; Irritation: eye-rbt 100 mg/24H MOD; Mutagen: cyt-hmn-ihl 7500 ppb/8H/5D-I; Reproductive: orl-rat TDLo:11470 mg/kg (6-15D preg); ihl-rat TCLo:293 ppm/6H (7-21D preg); Tumorigen/Carcinogen: ihl-rat TCLo:100 ppm/4H/5D/1Y-I

Key to abbreviations

LD = Lethal Dose MLD = Mild
LC = Lethal Concentration MOD = Moderate
TD = Toxic Dose SEV = Severe
TC = Toxic Concentration

See also Section 2.

Section 12 - Ecological Information

Component Name	Concentration	CAS	Data
Octane	5% TO 20%	111-65-9	Crustacea: 48 Hour(s) EC50 Water Flea =.38 mg/L
Toluene	1% TO 20%	108-88-3	Crustacea: 48 Hour(s) EC50 Crustacea 4.74-6.87 mg/L ; Fish: 96 Hour(s) LC50 Fish 5.89-7.81 mg/L
Heptane	5% TO 15%	142-82-5	Fish: 96 Hour(s) LC50 Fish =375 mg/L
2-Methylbutane (In Liquid form)	0% TO 10%	78-78-4	Fish: 96 Hour(s) LC50 Fish =3.1 mg/L
Hexane	1% TO 8%	110-54-3	Fish: 96 Hour(s) LC50 Fish 2.1-2.98 mg/L
Methylcyclohexane	1% TO 5%	108-87-2	Fish: 96 Hour(s) LC50 Fish =5.8 mg/L
1-Methylethylbenzene	0.5% TO 4%	98-82-8	Crustacea: 48 Hour(s) EC50 Water Flea 7.9-14.1 mg/L ; Fish: 96 Hour(s) LC50 Fish =2.7 mg/L
Cyclohexane	0% TO 3%	110-82-7	Fish: 96 Hour(s) LC50 Fish 3.96-5.18 mg/L [Flow through]; 96 Hour(s) LC50 Fish 23.03-42.07 mg/L [Static]
Naphthalene	0.1% TO 2%	91-20-3	Crustacea: 48 Hour(s) EC50 Water Flea 1.09-3.4 mg/L ; Fish: 96 Hour(s) LC50 Fish 1.3-4.01 mg/L

Ecological Fate

- Gasoline contains components that are potentially toxic to freshwater and saltwater ecosystems. It will normally float on water. The lighter components of gasoline will evaporate rapidly. In stagnant or slow-flowing waterways, a hydrocarbon layer can cover a large surface area. As a result, this covering layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway might be enough to cause a fish kill or create an

anaerobic environment. This coating action can also be harmful or fatal to plankton, algae, aquatic life, and water birds.

- Persistence/Degradability** ▪ No data available.
- Bioaccumulation Potential** ▪ No data available.
- Mobility in Soil** ▪ No data available.

This material can be hazardous to human health or the environment. If spilled, this material will normally evaporate rapidly. Hydrocarbon components may contribute to atmospheric smog. The atmospheric half-life of the butane components under photochemical smog conditions are estimated to be between three and seven days. Isopentane, n-pentane, hexane isomers, n-heptane, heptane isomers and iso-octane have estimated half-lives of between two and five days in air when photochemical hydroxyl or nitrate radicals are present. Toluene has a half-life of from three hours to approximately one day. Cyclohexane has a half-life of from six hours to over four days when hydroxyl radicals are present.

Section 13 - Disposal Considerations

- Product** ▪ This material, if discarded as produced, would be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001) and benzene (D018). If the material is spilled to soil or water, characteristic testing of the contaminated materials is recommended. Further, this material, once it becomes a waste, is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment prior to disposal to meet specific standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements.
- Packaging** ▪ Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner.
- General Information** ▪ Maximize material recovery for reuse or recycling. If spilled material is introduced into a wastewater treatment system, chemical and biological oxygen demand (COD and BOD) will likely increase. This material is biodegradable if gradually exposed to microorganisms, preferably in an aerobic environment. In sewage-seeded wastewater, at or below concentrations of 0.2 vol.% of this material, there is little or no effect on bio-oxidation and/or digestion. However, at 1 vol.%, it doubles the required digestion period. Higher concentrations interfere with floc formation and sludge settling and also plug filters or exchange beds. Vapor emissions from a bio-oxidation process contaminated with this material can be a health hazard.

Section 14 - Transportation Information

DOT - United States - Department of Transportation

Shipping Name: Gasoline
ID Number: 1203
Hazard Class: 3
Packing Group: II

TDG - Canada - Transport of Dangerous Goods

Shipping Name: Gasoline
ID Number: 1203
Hazard Class: 3
Packing Group: II

IMO/IMDG - International Maritime Transport

Shipping Name: Gasoline
ID Number: 1203
Hazard Class: 3
Packing Group: II

ADN - Europe Transport of Dangerous Goods by Road/Inland Waterway

Shipping Name: Gasoline
ID Number: 1203
Hazard Class: 3
Packing Group: II

IATA - International Air Transport Association

Shipping Name: Gasoline
ID Number: 1203
Hazard Class: 3
Packing Group: II

ADR - Europe Transport of Dangerous Goods by Road/Inland Waterway

Shipping Name: Gasoline
ID Number: 1203
Hazard Class: 3
Packing Group: II

RID - Europe Transport of Dangerous Goods by Railways

Shipping Name: Gasoline
ID Number: 1203
Hazard Class: 3
Packing Group: II

Section 15 - Regulatory Information

- SARA Hazard Classifications** - Acute, Chronic, Fire
- Risk & Safety Phrases**
- R11 Highly flammable.
 - R38 Irritating to skin.
 - R65 Harmful: may cause lung damage if swallowed.
 - R67 Vapours may cause drowsiness and dizziness.
 - R45 May cause cancer.
 - R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
 - R46 May cause heritable genetic damage.
 - R62 Possible risk of impaired fertility.
 - R63 Possible risk of harm to the unborn child.
 - R52 Harmful to aquatic organisms.
 - R53 May cause long-term adverse effects in the aquatic environment.
 - S9 Keep container in a well ventilated place.
 - S16 Keep away from sources of ignition - No Smoking.
 - S33 Take precautionary measures against static discharges.
 - S23 Do not breathe gas/fumes/vapour/spray.
 - S36 Wear suitable protective clothing.
 - S27 Take off immediately all contaminated clothing.
 - S29 Do not empty into drains.
 - S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 - S53 Avoid exposure - obtain special instructions before use.
 - S61 Avoid release to the environment. Refer to special instructions/ Safety Data Sheets.
 - S62 If swallowed, do not induce vomiting. Seek medical advice immediately and show the container or label.

State Right To Know

Component	CAS	MA	NJ	PA
Octane	111-65-9	Yes	Yes	Yes
Octane Isomers	NDA	No	No	No
Pentanes	NDA	No	No	No
Toluene	108-88-3	Yes	Yes	Yes
Xylene	1330-20-7	Yes	Yes	Yes
Heptane	142-82-5	Yes	Yes	Yes
Heptane Isomers	NDA	No	No	No
Hexane isomers	NDA	No	No	No
2-Methylbutane (In Liquid form)	78-78-4	Yes	Yes	Yes
Butane	106-97-8	Yes	Yes	Yes
Nonane	111-84-2	Yes	Yes	Yes
Nonane Isomers	NDA	No	No	No
Hexane	110-54-3	Yes	Yes	Yes
Benzene, trimethyl-	25551-13-7	Yes	Yes	Yes
Methylcyclohexane	108-87-2	Yes	Yes	Yes
Benzene	71-43-2	Yes	Yes	Yes
1-Methylethylbenzene	98-82-8	Yes	Yes	Yes
Ethylbenzene	100-41-4	Yes	Yes	Yes
Ethyl toluene	25550-14-5	No	Yes	No
Hexene	25264-93-1	No	No	No
Hexene, All Isomers	NDA	No	No	No
Methylcyclopentane	96-37-7	Yes	Yes	Yes
Cyclohexane	110-82-7	Yes	Yes	Yes
Cyclopentane	287-92-3	Yes	Yes	Yes
Naphthalene	91-20-3	Yes	Yes	Yes
Benzene, propyl-	103-65-1	Yes	Yes	Yes
Indene	95-13-6	Yes	Yes	Yes
Styrene	100-42-5	Yes	Yes	Yes

Inventory

Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Octane	111-65-9	Yes	No	Yes	No	Yes
Octane Isomers	NDA	No	No	No	No	No
Pentanes	NDA	No	No	No	No	No
Toluene	108-88-3	Yes	No	Yes	No	Yes
Xylene	1330-20-7	Yes	No	Yes	No	Yes
Heptane	142-82-5	Yes	No	Yes	No	Yes
Heptane Isomers	NDA	No	No	No	No	No
Hexane isomers	NDA	No	No	No	No	No
2-Methylbutane (In Liquid form)	78-78-4	Yes	No	Yes	No	Yes
Butane	106-97-8	Yes	No	Yes	No	Yes
Nonane	111-84-2	Yes	No	Yes	No	Yes
Nonane Isomers	NDA	No	No	No	No	No
Hexane	110-54-3	Yes	No	Yes	No	Yes
Benzene, trimethyl-	25551-13-7	Yes	No	Yes	No	Yes
Methylcyclohexane	108-87-2	Yes	No	Yes	No	Yes
Benzene	71-43-2	Yes	No	Yes	No	Yes
1-Methylethylbenzene	98-82-8	Yes	No	Yes	No	Yes
Ethylbenzene	100-41-4	Yes	No	Yes	No	Yes
Ethyl toluene	25550-14-5	Yes	No	Yes	No	Yes
Hexene	25264-93-1	No	Yes	Yes	No	Yes
Hexene, All Isomers	NDA	No	No	No	No	No
Methylcyclopentane	96-37-7	Yes	No	Yes	No	Yes
Cyclohexane	110-82-7	Yes	No	Yes	No	Yes
Cyclopentane	287-92-3	Yes	No	Yes	No	Yes
Naphthalene	91-20-3	Yes	No	Yes	No	Yes
Benzene, propyl-	103-65-1	Yes	No	Yes	No	Yes
Indene	95-13-6	Yes	No	Yes	No	Yes
Styrene	100-42-5	Yes	No	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
• Methylcyclohexane	108-87-2	1% TO 5%	B2
• Indene	95-13-6	0.5% TO 1.5%	B3
• Benzene, propyl-	103-65-1	0.5% TO 1.5%	B2
• Cyclopentane	287-92-3	1% TO 2%	B2
• Octane	111-65-9	5% TO 20%	B2, D2B
• Nonane	111-84-2	0% TO 10%	B2, D2B
• Naphthalene	91-20-3	0.1% TO 2%	B4, D2A
• Benzene, trimethyl-	25551-13-7	1% TO 5%	B3
• 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	B2
• 1-Methylethylbenzene	98-82-8	0.5% TO 4%	B2
• Cyclohexane	110-82-7	0% TO 3%	B2, D2B
• Ethylbenzene	100-41-4	0.2% TO 4%	B2, D2A, D2B
• Heptane	142-82-5	5% TO 15%	B2, D2B
• Styrene	100-42-5	0% TO 1%	B2, D2A
• Toluene	108-88-3	1% TO 20%	B2, D2A, D2B
• Xylene	1330-20-7	1% TO 18%	B2, D2A, D2B
• Benzene	71-43-2	0% TO 4.9%	B2, D2A, D2B
• Butane	106-97-8	0% TO 10%	A, B1
• Hexane	110-54-3	1% TO 8%	B2, D2A, D2B
• Hexene	25264-93-1	1% TO 3%	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
• Methylcyclohexane	108-87-2	1% TO 5%	1 %
• Indene	95-13-6	0.5% TO 1.5%	1 %
• Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
• Cyclopentane	287-92-3	1% TO 2%	1 %
• Octane	111-65-9	5% TO 20%	1 %
• Nonane	111-84-2	0% TO 10%	1 %
• Naphthalene	91-20-3	0.1% TO 2%	1 %
• Benzene, trimethyl-	25551-13-7	1% TO 5%	1 %
• 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
• 1-Methylethylbenzene	98-82-8	0.5% TO 4%	1 %
• Cyclohexane	110-82-7	0% TO 3%	1 %
• Ethylbenzene	100-41-4	0.2% TO 4%	0.1 %
• Heptane	142-82-5	5% TO 15%	1 %
• Styrene	100-42-5	0% TO 1%	0.1 %
• Toluene	108-88-3	1% TO 20%	1 %
• Xylene	1330-20-7	1% TO 18%	Not Listed
• Benzene	71-43-2	0% TO 4.9%	0.1 %
• Butane	106-97-8	0% TO 10%	1 %
• Hexane	110-54-3	1% TO 8%	1 %
• Hexene	25264-93-1	1% TO 3%	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
• Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
• Indene	95-13-6	0.5% TO 1.5%	Not Listed

o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Priority Substance List 1 (substance not considered toxic)
o Toluene	108-88-3	1% TO 20%	Priority Substance List 1 (substance not considered toxic)
o Xylene	1330-20-7	1% TO 18%	Priority Substance List 1 (substance not considered toxic)
o Benzene	71-43-2	0% TO 4.9%	Priority Substance List 1 (substance considered toxic)
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	F; R11 Xi; R38 N; R51 R53 Xn; R65 R67
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	R10 Xi; R37 N; R51 R53 Xn; R65
o Cyclopentane	287-92-3	1% TO 2%	F; R11 R52 R53
o Octane	111-65-9	5% TO 20%	F; R11 Xi; R38 N; R50 R53 Xn; R65 R67
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Xn; R22 Carc.Cat.3; R40 N; R50 R53
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	F+; R12 N; R51 R53 Xn; R65 R66 R67
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	R10 Xi; R37 N; R51 R53 Xn; R65
o Cyclohexane	110-82-7	0% TO 3%	F; R11 Xi; R38 N; R50 R53 Xn; R65 R67
o Ethylbenzene	100-41-4	0.2% TO 4%	F; R11 Xn; R20
o Heptane	142-82-5	5% TO 15%	F; R11 Xi; R38 N; R50 R53 Xn; R65 R67
o Styrene	100-42-5	0% TO 1%	R10 Xn; R20 Xi; R36/38
o Toluene	108-88-3	1% TO 20%	F; R11 Xi; R38 Xn; R48/20 R65 Repr.Cat.3; R63 R67
o Xylene	1330-20-7	1% TO 18%	R10 Xn; R20/21 Xi; R38
o Benzene	71-43-2	0% TO 4.9%	F; R11 Xi; R36/38 Carc.Cat.1; R45 Muta.Cat.2; R46 T; R48/23/24/25 Xn; R65
o Butane	106-97-8	0% TO 10%	F+; R12
o Hexane	110-54-3	1% TO 8%	F; R11 Xi; R38 N; R51 R53 Repr.Cat.3; R62 Xn; R65 R48/20 R67
o Hexene	25264-93-1	1% TO 3%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed

o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	12.5%<=C: Xn; R20 12.5%<=C: Xi; R36/38
o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	12.5%<=C: Xn; R20/21
o Benzene	71-43-2	0% TO 4.9%	Not Listed
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	5%<=C: Xn; R48/20
o Hexene	25264-93-1	1% TO 3%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	F Xn N R:11-38-51/53-65-67 S:(2)-9-16-33-61-62
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Xn N R:10-37-51/53-65 S:(2)-24-37-61-62
o Cyclopentane	287-92-3	1% TO 2%	F R:11-52/53 S:(2)-9-16-29-33-61
o Octane	111-65-9	5% TO 20%	F Xn N R:11-38-65-67-50/53 S:(2)-9-16-29-33-60-61-62
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Xn N R:22-40-50/53 S:(2)-36/37-46-60-61
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	F+ Xn N R:12-51/53-65-66-67 S:(2)-9-16-29-33-61-62
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Xn N R:10-37-51/53-65 S:(2)-24-37-61-62
o Cyclohexane	110-82-7	0% TO 3%	F Xn N R:11-38-65-67-50/53 S:(2)-9-16-25-33-60-61-62
o Ethylbenzene	100-41-4	0.2% TO 4%	F Xn R:11-20 S:(2)-16-24/25-29
o Heptane	142-82-5	5% TO 15%	F Xn N R:11-38-65-67-50/53 S:(2)-9-16-29-33-60-61-62
o Styrene	100-42-5	0% TO 1%	Xn R:10-20-36/38 S:(2)-23
o Toluene	108-88-3	1% TO 20%	F Xn R:11-38-49/20-63-65-67 S:(2)-36/37-46-62
o Xylene	1330-20-7	1% TO 18%	Xn R:10-20/21-38 S:(2)-25
o Benzene	71-43-2	0% TO 4.9%	F T R:45-46-11-36/38-48/23/24/25-65 S:53-45
o Butane	106-97-8	0% TO 10%	F+ R:12 S:(2)-9-16
o Hexane	110-54-3	1% TO 8%	F Xn N R:11-38-48/20-62-65-67-51/53 S:(2)-9-16-29-33-36/37-61-62
o Hexene	25264-93-1	1% TO 3%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	C
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	C
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	C
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	C
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	C
o Styrene	100-42-5	0% TO 1%	D

o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	C
o Benzene	71-43-2	0% TO 4.9%	E
o Butane	106-97-8	0% TO 10%	C
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	S:(2)-9-16-33-61-62
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	S:(2)-24-37-61-62
o Cyclopentane	287-92-3	1% TO 2%	S:(2)-9-16-29-33-61
o Octane	111-65-9	5% TO 20%	S:(2)-9-16-29-33-60-61-62
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	S:(2)-36/37-46-60-61
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	S:(2)-9-16-29-33-61-62
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	S:(2)-24-37-61-62
o Cyclohexane	110-82-7	0% TO 3%	S:(2)-9-16-25-33-60-61-62
o Ethylbenzene	100-41-4	0.2% TO 4%	S:(2)-16-24/25-29
o Heptane	142-82-5	5% TO 15%	S:(2)-9-16-29-33-60-61-62
o Styrene	100-42-5	0% TO 1%	S:(2)-23
o Toluene	108-88-3	1% TO 20%	S:(2)-36/37-46-62
o Xylene	1330-20-7	1% TO 18%	S:(2)-25
o Benzene	71-43-2	0% TO 4.9%	S:53-45
o Butane	106-97-8	0% TO 10%	S:(2)-9-16
o Hexane	110-54-3	1% TO 8%	S:(2)-9-16-29-33-36/37-61-62
o Hexene	25264-93-1	1% TO 3%	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	Not Listed
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	5 ppm STEL (Cancer hazard, Flammable, See 29 CFR 1910.1028, 15 min); 0.5 ppm Action Level; 1 ppm TWA
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	
o Toluene	108-88-3	1% TO 20%	
o Xylene	1330-20-7	1% TO 18%	(isomers and mixtures)
o Benzene	71-43-2	0% TO 4.9%	(including Benzene from gasoline)
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed

o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	100 lb final RQ; 45.4 kg final RQ
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	5000 lb final RQ; 2270 kg final RQ
o Cyclohexane	110-82-7	0% TO 3%	1000 lb final RQ; 454 kg final RQ
o Ethylbenzene	100-41-4	0.2% TO 4%	1000 lb final RQ; 454 kg final RQ
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	1000 lb final RQ; 454 kg final RQ
o Toluene	108-88-3	1% TO 20%	1000 lb final RQ; 454 kg final RQ
o Xylene	1330-20-7	1% TO 18%	100 lb final RQ; 45.4 kg final RQ
			10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule)
o Benzene	71-43-2	0% TO 4.9%	
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	5000 lb final RQ; 2270 kg final RQ
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	Not Listed
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed

o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	Not Listed
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	Not Listed
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	0.1 % de minimis concentration
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	1.0 % de minimis concentration
o Cyclohexane	110-82-7	0% TO 3%	1.0 % de minimis concentration
o Ethylbenzene	100-41-4	0.2% TO 4%	0.1 % de minimis concentration
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	0.1 % de minimis concentration
o Toluene	108-88-3	1% TO 20%	1.0 % de minimis concentration

o Xylene	1330-20-7	1% TO 18%	1.0 % de minimis concentration
o Benzene	71-43-2	0% TO 4.9%	0.1 % de minimis concentration
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	1.0 % de minimis concentration
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Included in waste stream: F039
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151
o Xylene	1330-20-7	1% TO 18%	Included in waste stream: F039
o Benzene	71-43-2	0% TO 4.9%	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K159, K169, K171, K172
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	
o Toluene	108-88-3	1% TO 20%	
o Xylene	1330-20-7	1% TO 18%	
o Benzene	71-43-2	0% TO 4.9%	
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Toxic Characteristic

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	0.5 mg/L regulatory level
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	waste number U165
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	waste number U220
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	waste number U019
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed

o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	
o Toluene	108-88-3	1% TO 20%	
o Xylene	1330-20-7	1% TO 18%	
o Benzene	71-43-2	0% TO 4.9%	
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	0.059 mg/L (wastewater); 5.6 mg/kg (nonwastewater)
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	0.057 mg/L (wastewater); 10 mg/kg (nonwastewater)
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	0.080 mg/L (wastewater); 10 mg/kg (nonwastewater)
o Xylene	1330-20-7	1% TO 18%	0.32 mg/L (wastewater); 30 mg/kg (nonwastewater)
o Benzene	71-43-2	0% TO 4.9%	0.14 mg/L (wastewater); 10 mg/kg (nonwastewater)
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	
o Heptane	142-82-5	5% TO 15%	Not Listed

o Styrene	100-42-5	0% TO 1%	
o Toluene	108-88-3	1% TO 20%	
o Xylene	1330-20-7	1% TO 18%	
o Benzene	71-43-2	0% TO 4.9%	
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	waste number U165
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	waste number U055 (Ignitable waste)
o Cyclohexane	110-82-7	0% TO 3%	waste number U056 (Ignitable waste)
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	waste number U220..
o Xylene	1330-20-7	1% TO 18%	waste number U239 (Ignitable waste, Toxic waste)
o Benzene	71-43-2	0% TO 4.9%	waste number U019 (Ignitable waste, Toxic waste)
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Waste Minimization Priority Chemicals

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	Not Listed
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	carcinogen, initial date 4/19/02
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	carcinogen, initial date 6/11/04
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	carcinogen, initial date 2/27/87
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	developmental toxicity, initial date 1/1/91
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	developmental toxicity, initial date 12/26/97
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed

o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	7000 µg/day MADL (level represents absorbed dose)
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	24 µg/day MADL (oral); 49 µg/day MADL (inhalation)
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	5.8 µg/day NSRL
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	54 µg/day NSRL (inhalation); 41 µg/day NSRL (oral)
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	6.4 µg/day NSRL (oral); 13 µg/day NSRL (inhalation)
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed

o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	female reproductive toxicity, initial date 8/7/09
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	Not Listed
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	male reproductive toxicity, initial date 12/26/97
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	
o Cyclohexane	110-82-7	0% TO 3%	
o Ethylbenzene	100-41-4	0.2% TO 4%	
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	
o Toluene	108-88-3	1% TO 20%	
o Xylene	1330-20-7	1% TO 18%	
o Benzene	71-43-2	0% TO 4.9%	

o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Not Listed
o Indene	95-13-6	0.5% TO 1.5%	Not Listed
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Not Listed
o Octane	111-65-9	5% TO 20%	Not Listed
o Nonane	111-84-2	0% TO 10%	Not Listed
o Naphthalene	91-20-3	0.1% TO 2%	Not Listed
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Not Listed
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Not Listed
o Cyclohexane	110-82-7	0% TO 3%	Not Listed
o Ethylbenzene	100-41-4	0.2% TO 4%	Not Listed
o Heptane	142-82-5	5% TO 15%	Not Listed
o Styrene	100-42-5	0% TO 1%	Not Listed
o Toluene	108-88-3	1% TO 20%	Not Listed
o Xylene	1330-20-7	1% TO 18%	Not Listed
o Benzene	71-43-2	0% TO 4.9%	
o Butane	106-97-8	0% TO 10%	Not Listed
o Hexane	110-54-3	1% TO 8%	Not Listed
o Hexene	25264-93-1	1% TO 3%	Not Listed

United States - Rhode Island

Labor

U.S. - Rhode Island - Hazardous Substance List

o Ethyl toluene	25550-14-5	1% TO 3%	Not Listed
o Methylcyclohexane	108-87-2	1% TO 5%	Toxic
o Indene	95-13-6	0.5% TO 1.5%	Toxic
o Benzene, propyl-	103-65-1	0.5% TO 1.5%	Not Listed
o Cyclopentane	287-92-3	1% TO 2%	Toxic; Flammable
o Octane	111-65-9	5% TO 20%	Toxic; Flammable
o Nonane	111-84-2	0% TO 10%	Toxic
o Naphthalene	91-20-3	0.1% TO 2%	Toxic; Flammable
o Benzene, trimethyl-	25551-13-7	1% TO 5%	Toxic
o 2-Methylbutane (In Liquid form)	78-78-4	0% TO 10%	Not Listed
o 1-Methylethylbenzene	98-82-8	0.5% TO 4%	Toxic (skin); Flammable (skin)
o Cyclohexane	110-82-7	0% TO 3%	Toxic; Flammable
o Ethylbenzene	100-41-4	0.2% TO 4%	Toxic; Flammable
o Heptane	142-82-5	5% TO 15%	Toxic; Flammable
o Styrene	100-42-5	0% TO 1%	Toxic; Flammable
o Toluene	108-88-3	1% TO 20%	Toxic (skin); Flammable (skin)
o Xylene	1330-20-7	1% TO 18%	Toxic (skin); Flammable (skin)
o Benzene	71-43-2	0% TO 4.9%	Toxic (skin); Flammable (skin); Carcinogen (skin)
o Butane	106-97-8	0% TO 10%	Toxic; Flammable
o Hexane	110-54-3	1% TO 8%	Toxic; Flammable
o Hexene	25264-93-1	1% TO 3%	Not Listed

Section 16 - Other Information

- Preparation Date** ▪ 02/09/2011
- Last Revision Date** ▪ 02/09/2011
- Disclaimer/Statement of Liability** ▪ The above data is based on tests and experience which Delek Refining, Ltd believes reliable and is supplied for information purposes only. Delek Refining, Ltd disclaims any liability for damage or injury which results from the use of the above data and nothing contained therein shall constitute a guarantee, warranty (including warranty of merchantability) or representation (including freedom from patent liability) by Delek Refining, Ltd with respect to the data, the product described, to their use for any specific purpose, even if that purpose is known to Delek Refining, Ltd.

Key to abbreviations
NDA = No Data Available



Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

- Product Name** • **Ultra Low Sulfur Diesel**
- Synonyms** • ASTM No. 2-D Grade Diesel Fuel (defined by ASTM D-975); Burner Fuel No. 2; Diesel Oil (Medium); Fuel Oil No. 2 (defined by ASTM D-396); Furnace Oil; Home Medium Oil; No. 2 Diesel; No. 2 Distillate Fuel; No. 2 Heating Oil

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Relevant identified use(s)** • Diesel Fuel

1.3 Details of the supplier of the safety data sheet

- Manufacturer** • Delek Refining, Ltd.
425 McMurrey Drive
Tyler, TX 75702
United States
www.delekus.com

Telephone (General) • 903-579-3400

1.4 Emergency telephone number

- Manufacturer** • (800) 424-9300 - 24 Hour CHEMTREC - National
- Manufacturer** • (703) 527-3887 - 24 Hour CHEMTREC - International

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

- CLP** • Flammable Liquids 3 - H226
Carcinogenicity 2 - H351
Hazardous to the aquatic environment Chronic 3 - H412
- DSD/DPD** • Flammable
Carcinogenic Substances - Category 3
R10, R40, R52, R53

2.2 Label Elements

- CLP**
- WARNING**

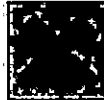


- Hazard statements** • H226 - Flammable liquid and vapour
 • H351 - Suspected of causing cancer.
 • H412 - Harmful to aquatic life with long lasting effects

Precautionary statements

- Prevention** • P201 - Obtain special instructions before use.
 • P202 - Do not handle until all safety precautions have been read and understood.
 • P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 • P233 - Keep container tightly closed.
 • P240 - Ground and/or bond container and receiving equipment.
 • P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
 • P242 - Use only non-sparking tools.
 • P243 - Take precautionary measures against static discharge.
 • P273 - Avoid release to the environment.
 • P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 • P281 - Use personal protective equipment as required.
- Response** • P370+P378 - In case of fire: Use appropriate media for extinction.
 • P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 • P308+P313 - IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal** • P403+P235 - Store in a well-ventilated place. Keep cool.
 • P405 - Store locked up.
 • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



- Risk phrases** • R10 - Flammable.
 • R40 - Limited evidence of a carcinogenic effect.
 • R52 - Harmful to aquatic organisms.
 • R53 - May cause long-term adverse effects in the aquatic environment.
- Safety phrases** • S36 - Wear suitable protective clothing.
 • S37 - Wear suitable gloves.
 • S53 - Avoid exposure - obtain special instructions before use.

2.3 Other Hazards

- CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
- DSD/DPD** • According to European Directive 1999/45/EC this material is considered dangerous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012** • Flammable Liquids 3
 Aspiration 1
 Skin Irritation 2
 Eye Irritation 2
 Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
 Carcinogenicity 2

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- Flammable liquid and vapour
 - May be fatal if swallowed and enters airways
 - Causes skin irritation
 - Causes serious eye irritation
 - May cause drowsiness or dizziness
 - Suspected of causing cancer.

Precautionary statements

- Prevention**
- Obtain special instructions before use.
 - Do not handle until all safety precautions have been read and understood.
 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 - Keep container tightly closed.
 - Ground and/or bond container and receiving equipment.
 - Use explosion-proof electrical/ventilating/lighting/equipment.
 - Use only non-sparking tools.
 - Take precautionary measures against static discharge.
 - Avoid breathing mists, vapours, and/or spray.
 - Wash thoroughly after handling.
 - Use only outdoors or in a well-ventilated area.
 - Wear protective gloves/protective clothing/eye protection/face protection.

- Response**
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - Call a POISON CENTER or doctor/physician if you feel unwell.
 - In case of fire: Use appropriate media for extinction.
 - If on skin: Wash with plenty of water.
 - Specific treatment, see supplemental first aid information.
 - Take off contaminated clothing and wash before reuse.
 - If skin irritation occurs: Get medical advice/attention.
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - If eye irritation persists: Get medical advice/attention.
 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 - Do NOT induce vomiting.
 - IF exposed or concerned: Get medical advice/attention.

- Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed.
 - Keep cool.
 - Store locked up.
 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Combustible Liquids - B3
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.2 Label elements

WHMIS



- Combustible Liquids - B3
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Fuels, diesel, No. 2	CAS:68476-34-6 EC Number:270-676-1 EU Index:649-227-00-2	100%	NDA	EU DSD/DPD: Annex VI, Table 3.2: Carc. Cat. 3, R40; R10; R52-R53 EU CLP: Annex VI, Table 3.1: Carc. 2, H351; Flam. Liq. 3, H226; Aquatic Chronic 3, H412 OSHA HCS 2012: Flam. Liq. 3; Eye Irrit. 2; Skin Irrit. 2; Asp. Tox. 1; Carc. 2; STOT SE 3: Narc.	NDA
Fuel oil, No.2	CAS:68476-30-2 EC Number:270-671-4 EU Index:649-225-00-1	100%	Ingestion/Oral-Rat LD50 • 12 g/kg Skin-Rabbit LD50 • 4720 µL/kg	EU DSD/DPD: Annex VI, Table 3.2: Carc. Cat. 3, R40; R10; R52-R53 EU CLP: Annex VI, Table 3.1: Carc. 2, H351; Flam. Liq. 3, H226; Aquatic Chronic 3, H412 OSHA HCS 2012: Flam. Liq. 3; Eye Irrit. 2; Skin Irrit. 2; Asp. Tox. 1; Carc. 2; STOT SE 3: Narc.	NDA
Naphthalene	CAS:91-20-3 EC Number:202-049-5 EU Index:601-052-00-2	< 1%	Skin-Rabbit LD50 • >20 g/kg Ingestion/Oral-Rat LD50 • 490 mg/kg	EU DSD/DPD: Annex VI, Table 3.2: Carc. Cat. 3, R40; Xn, R22; N, R50, R53 EU CLP: Annex VI, Table 3.1: Acute Tox. 4, H302; Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Flam. Sol. 2; Acute Tox. 4 (Orl); Skin Irrit. 2; Muta. 2; Carc. 2; Repr. 2; STOT SE 3: Narc.; STOT RE 1 (Blood, Eyes; Orl, Inhl)	NDA
Mixture of additives	NDA	< 1%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Benzene, trimethyl-	CAS:25551-13-7 EC Number:247-099-9	< 1%	Ingestion/Oral-Rat LD50 • 8970 mg/kg	EU DSD/DPD: R10; Xi; R38; R67; Xn; R65; N; R51-R53 EU CLP: Flam. Liq. 3, H226; Skin Irrit. 2, H315; STOT SE 3: Narc., H336; Asp. Tox. 1, H304; Aquatic Chronic 2, H411 OSHA HCS 2012: Flam. Liq. 3; Eye Irrit. 2; Skin Irrit. 2; STOT SE 3: Narc.; Asp. Tox. 1	NDA
				EU DSD/DPD: Annex VI, Table 3.2: R10; Xn, R20; Xi,	

1,2,4-Trimethylbenzene	CAS:95-63-6 EC Number:202-436-9 EU Index:601-043-00-3	< 1%	Ingestion/Oral-Rat LD50 • 5 g/kg Inhalation-Rat LC50 • 18000 mg/m ³ 4 Hour (s)	R36/37/38; N, R51, R53 EU CLP: Annex VI, Table 3.1: Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit. (Inhl), H335; Aquatic Chronic 2, H411 OSHA HCS 2012: Flam. Liq. 3; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3: Narc; STOT SE 3: Resp. Irrit. (Inhl); Asp. Tox. 1	NDA
1,1'-Biphenyl	CAS:92-52-4 EC Number:202-163-5 EU Index:601-042-00-8	< 1%	Ingestion/Oral-Rat LD50 • 2140 mg/kg Skin-Rabbit LD50 • >5010 mg/kg	EU DSD/DPD: Annex VI, Table 3.2: Xi, R36/37/38; N, R50, R53 EU CLP: Annex VI, Table 3.1: Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335; Skin Irrit. 2, H315; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2; STOT RE 1 (PNS, CNS, Liver)	NDA

See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

- Inhalation**
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.
- Skin**
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention.
- Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- Do NOT induce vomiting. Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention immediately if ingested.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

- Suitable Extinguishing Media**
- Use foam, water fog, dry chemical, CO₂.
- Unsuitable Extinguishing Media**
- Do not use straight water stream as it will scatter the fire.

5.2 Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Containers may explode when heated.
Vapor explosion hazard indoors, outdoors or in sewers.
HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
Many liquids are lighter than water.
Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
Runoff to sewer may create fire or explosion hazard.
Vapors may form explosive mixtures with air.
Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

- Burning or excessive heating may produce smoke, carbon monoxide, carbon dioxide, or other harmful gasses/vapors.

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).
- Move containers from fire area if you can do it without risk.
- **LARGE FIRES:** Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. **LARGE SPILL:** Consider initial downwind evacuation for at least 300 meters (1000 feet) **ELIMINATE** all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors. All equipment used when handling the product must be grounded. **LARGE SPILLS:** Dike far ahead of liquid spill for later disposal. **LARGE SPILLS:** Water spray may reduce vapor; but may not prevent ignition in closed spaces.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use only in well ventilated areas. Keep away from heat, sparks, and flame – No Smoking. Take precautionary measures against static charges. Use only non-sparking tools. All equipment used when handling the product must be grounded. Avoid contact with skin, eyes or clothing. Avoid breathing mist, vapours and/or spray. Wear appropriate personal protective equipment, avoid direct contact. Empty containers retain product residue and can be hazardous. Do not cut, weld, puncture or incinerate container. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources. Store only in approved containers. Store locked up. Keep container tightly closed. Containers should be clearly labeled. Keep away from incompatible materials.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection**8.1 Control parameters**

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
1,1'-Biphenyl (92-52-4)	TWAs	0.2 ppm TWA	0.2 ppm TWA; 1 mg/m ³ TWA	0.2 ppm TWA; 1 mg/m ³ TWA
Naphthalene (91-20-3)	TWAs	10 ppm TWA	10 ppm TWA; 50 mg/m ³ TWA	10 ppm TWA; 50 mg/m ³ TWA
	STELs	Not established	15 ppm STEL; 75 mg/m ³ STEL	Not established
Benzene, trimethyl- (25551-13-7)	TWAs	25 ppm TWA	Not established	Not established
1,2,4- Trimethylbenzene (95-63-6)	TWAs	Not established	25 ppm TWA; 125 mg/m ³ TWA	Not established
Fuels, diesel, No. 2 (68476-34-6)	TWAs	100 mg/m ³ TWA (inhalable fraction and vapor, as total hydrocarbons, listed under Diesel fuel)	Not established	Not established
Fuel oil, No.2 (68476-30-2)	TWAs	100 mg/m ³ TWA (inhalable fraction and vapor, as total hydrocarbons, listed under Diesel fuel)	Not established	Not established

8.2 Exposure controls**Engineering Measures/Controls**

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment**Respiratory**

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear chemical splash safety goggles.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

STEL = Short Term Exposure Limits are based on 15-minute exposures

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties**9.1 Information on Physical and Chemical Properties**

Material Description			
Physical Form	Liquid	Appearance/Description	Straw-colored to dyed red liquid with an aromatic (petroleum like) odor.
Color	Straw-colored to dyed red.	Odor	Aromatic Odor (Petroleum Characteristics)

Odor Threshold	Data lacking		
General Properties			
Boiling Point	330 to 380 F(165.5556 to 193.3333 C)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	0.81 to 0.88 Water=1	Density	6.7595 to 7.3436 lbs/gal
Water Solubility	Negligible < 0.1 %	Viscosity	1.9 to 4.1 Centistoke (cSt, cS) or min ² /sec
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	125 to 140 F(51.6667 to 60 C)	UEL	10 %
LEL	0.3 %	Autoignition	340 to 500 F(171.1111 to 260 C)
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat, sparks, open flame.

10.5 Incompatible materials

- Strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

10.6 Hazardous decomposition products

- The use of hydrocarbon fuels in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., oxides of carbon, sulfur, and nitrogen, benzene and other hydrocarbons) and/or dangerously low oxygen levels.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

		Components
Fuel oil, No.2 (100%)	68476-30-2	Acute Toxicity: Ingestion/Oral-Rat LD50 • 12 g/kg; Skin-Rabbit LD50 • 4720 µL/kg; Lungs, Thorax, or Respiration:Other changes; Skin and Appendages:After systemic exposure:Dermatitis, other; Irritation: Eye-Rabbit • 100 mg 30 Second(s) • Mild irritation; Skin-Rabbit • 500 µL 24 Hour(s) • Moderate irritation; Tumorigen / Carcinogen: Skin-Mouse TDLo • 243 g/kg 97 Week(s)-Intermittent; Tumorigenic:Carcinogenic by

		RTECS criteria; <i>Skin and Appendages:Other:Tumors</i>
Fuels, diesel, No. 2 (100%)	68476-34-6	Tumorigen / Carcinogen: Skin-Mouse TDLo • 312 mL/kg 78 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Skin and Appendages:Other:Tumors</i>
1,1'-Biphenyl (< 1%)	92-52-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • 2140 mg/kg; <i>Behavioral:Somnolence (general depressed activity); Behavioral:Muscle weakness; Gastrointestinal:Alteration in gastric secretion; Skin-Rabbit LD50 • >5010 mg/kg;</i> Irritation: Eye-Rabbit • 100 mg • Mild irritation; Skin-Rabbit • 500 µL 24 Hour(s) • Severe irritation; Multi-dose Toxicity: Inhalation-Mouse TCLo • 5 mg/m ³ 7 Hour(s) 92 Day(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Emphysema; Lungs, Thorax, or Respiration:Chronic pulmonary edema; Related to Chronic Data:Death in the Other Multiple Dose data type field;</i> Mutagen: DNA damage • Ingestion/Oral-Mouse • 100 mg/kg; <i>Unscheduled DNA synthesis • Ingestion/Oral-Rat • 8400 mg/kg 4 Week(s)-Continuous;</i> Tumorigen / Carcinogen: Ingestion/Oral-Mouse TDLo • 56 g/kg; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Blood:Tumors</i>
1,2,4-Trimethylbenzene (< 1%)	95-63-6	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5 g/kg; <i>Inhalation-Rat LC50 • 18000 mg/m³ 4 Hour(s);</i> Multi-dose Toxicity: <i>Inhalation-Rat TCLo • 20 mg/m³ 16 Week(s)-Continuous; Kidney, Ureter, and Bladder:Other changes in urine composition; Inhalation-Rat TCLo • 100 ppm 6 Hour(s) 20 Day(s)-Intermittent;</i> <i>Behavioral:Changes in motor activity (specific assay); Behavioral:Analgesia; Behavioral:Alteration of operant conditioning</i>
Benzene, trimethyl- (< 1%)	25551-13-7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 8970 mg/kg; Irritation: Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation
Naphthalene (< 1%)	91-20-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 490 mg/kg; <i>Ingestion/Oral-Mouse TDLo • 158 mg/kg; Brain and Coverings:Other degenerative changes; Liver:Other changes; Biochemical:Metabolism (intermediary):Lipids, including transport; Inhalation-Human TCLo • 250 mg/m³; Sense Organs and Special Senses:Eye:Lacrimation; Behavioral:Headache; Skin-Rabbit LD50 • >20 g/kg; Unreported-Guinea Pig LD50 • 1200 mg/kg; Behavioral:Somnolence (general depressed activity);</i> Irritation: Skin-Rabbit • 0.05 mL 24 Hour(s) • Severe irritation; Multi-dose Toxicity: <i>Ingestion/Oral-Rat TDLo • 500 mg/kg 10 Day(s)-Intermittent; Behavioral:Sleep; Lungs, Thorax, or Respiration:Dyspnea; Ingestion/Oral-Rat TDLo • 4500 mg/kg 10 Day(s)-Intermittent; Brain and Coverings:Other degenerative changes;</i> Mutagen: <i>Specific locus test • Inhalation-Rat • 30 ppm 13 Week(s)-Intermittent; Micronucleus test • Unreported Route-Human • Lymphocyte (Somatic cell) • 30 mg/L;</i> Reproductive: <i>Ingestion/Oral-Mouse TDLo • 2400 mg/kg (7-14D preg); Reproductive Effects:Effects on Newborn:Live birth index; Reproductive Effects:Effects on Newborn:Viability index (e.g., # alive at day 4 per # born alive); Ingestion/Oral-Rat TDLo • 4500 mg/kg (6-15D preg); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental Abnormalities:Other developmental abnormalities;</i> Tumorigen / Carcinogen: <i>Inhalation-Mouse TCLo • 30 ppm 6 Hour(s) 2 Year(s)-Intermittent; Tumorigenic:Neoplastic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Inhalation-Rat TCLo • 60 ppm 6 Hour(s) 105 Week(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Sense Organs and Special Senses:Olfaction:Tumors; Inhalation-Rat TCLo • 1575 mg/kg 105 Week(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Sense Organs and Special Senses:Olfaction:Tumors</i>

GHS Properties	Classification
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Eye Irritation 2
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Aspiration 1

Carcinogenicity	EU/CLP • Carcinogenicity 2 OSHA HCS 2012 • Carcinogenicity 2
Skin corrosion/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-RE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

Potential Health Effects

Inhalation

- Acute (Immediate)** • May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.
- Chronic (Delayed)** • No data available.

Skin

- Acute (Immediate)** • Causes skin irritation.
- Chronic (Delayed)** • No data available.

Eye

- Acute (Immediate)** • Causes serious eye irritation.
- Chronic (Delayed)** • No data available.

Ingestion

- Acute (Immediate)** • Material may be aspirated into lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.
- Chronic (Delayed)** • No data available.

Carcinogenic Effects

- Repeated and prolonged exposure may cause cancer.

Carcinogenic Effects			
	CAS	IARC	NTP
Naphthalene	91-20-3	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen

Key to abbreviations

- LC = Lethal Concentration
- LD = Lethal Dose
- TC = Toxic Concentration
- TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

CAS	
	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Melanotaeni a fluviatilis</i> (Chrimson-Spotted Rainbowfish) 0.213 mg/L Comments: Naphthalene (91-20-3)

Ultra Low Sulfur Diesel	NDA	<p>96 Hour(s) LC50 <i>Pimephales promelas</i> (Fathead Minnow) 7.72 mg/L Comments: 1,2,4-Trimethylbenzene (95-63-6)</p> <p>Aquatic Toxicity-Crustacea: 48 Hour(s) EC50 Water Flea <i>Daphnia magna</i> 3.6063 mg/L Comments: 1,2,4-Trimethylbenzene (95-63-6)</p> <p>Daggerblade Grass Shrimp 5.6 mg/L Comments: Benzene, trimethyl- (25551-13-7)</p> <p>48 Hour(s) EC50 Water Flea <i>Daphnia magna</i> 136 mg/L Comments: Naphthalene (91-20-3)</p> <p>48 Hour(s) NOEC Water Flea <i>Daphnia magna</i> 1 mg/L Comments: Naphthalene (91-20-3)</p> <p>Aquatic Toxicity-Algae and Other Aquatic Plant(s): 7 Day(s) NOEC Algae <i>Scenedesmus subspicatus</i> 4.15 mg/L Comments: Naphthalene (91-20-3)</p>
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12.2 Persistence and degradability

- Material Data Lacking.

12.3 Bioaccumulative potential

- Not expected to bioaccumulate through food chains in the environment.

12.4 Mobility in Soil

- Spillages may penetrate the soil causing ground water contamination. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

12.5 Results of PBT and vPvB assessment

- PBT and vPvB assessment has not been conducted for this material.

12.6 Other adverse effects

Potential Environmental Effects

- Harmful to aquatic life with long lasting effects.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- This material, if discarded as produced, would be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001) and benzene (D018). If the material is spilled to soil or water, characteristic testing of the contaminated materials is recommended. Further, this material, once it becomes a waste, is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment prior to disposal to meet specific standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1993	Flammable liquids, n.o.s.	3	III	NDA
TDG	UN1993	FLAMMABLE LIQUID, N.O.S.	3	III	NDA
IMO/IMDG	UN1993	FLAMMABLE LIQUID, N.O.S.	3	III	NDA
IATA/ICAO	UN1993	Flammable liquids, n.o.s.	3	III	NDA

14.6 Special precautions for user

- None specified.

14.7 Transport in bulk

- Data lacking.

according to Annex II of
 MARPOL 73/78 and the IBC
 Code

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic, Fire

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
1,1'-Biphenyl	92-52-4	Yes	No	Yes	No	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	No	Yes	No	Yes
Benzene, trimethyl-	25551-13-7	Yes	No	Yes	No	Yes
Fuel oil, No.2	68476-30-2	Yes	No	Yes	No	Yes
Fuels, diesel, No. 2	68476-34-6	Yes	No	Yes	No	Yes
Naphthalene	91-20-3	Yes	No	Yes	No	Yes

Canada

Labor		
Canada - WHMIS - Classifications of Substances		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	D2B
• Naphthalene	91-20-3	B4, D2A
• Benzene, trimethyl-	25551-13-7	B3
• 1,2,4-Trimethylbenzene	95-63-6	B3
Canada - WHMIS - Ingredient Disclosure List		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	1 %
• Naphthalene	91-20-3	1 %
• Benzene, trimethyl-	25551-13-7	1 %
• 1,2,4-Trimethylbenzene	95-63-6	0.1 %

Environment		
Canada - CEPA - Priority Substances List		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

Other Agency Information

Other		
AIHA - Emergency Response Planning Guidelines - ERPG-1 Values		
• Fuels, diesel, No. 2	68476-34-6	Not Listed

• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	
• Naphthalene	91-20-3	
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

U.S. - CAA (Clean Air Act) - Accidental Release Prevention - Flammable Substances

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

U.S. - CAA (Clean Air Act) - Accidental Release Prevention - Toxic Substances

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed

• 1,1'-Biphenyl	92-52-4	100 lb final RQ; 45.4 kg final RQ
• Naphthalene	91-20-3	100 lb final RQ; 45.4 kg final RQ
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
U.S. - CERCLA/SARA - Section 313 - Emission Reporting		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	1.0 % de minimis concentration
• Naphthalene	91-20-3	0.1 % de minimis concentration
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	1.0 % de minimis concentration
U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Fuels, diesel, No. 2	68476-34-6	Not Listed
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• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	carcinogen, initial date 4/19/02
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
U.S. - California - Proposition 65 - Developmental Toxicity		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	5.8 µg/day NSRL
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Female		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• Fuel oil, No.2	68476-30-2	Not Listed
• 1,1'-Biphenyl	92-52-4	Not Listed
• Naphthalene	91-20-3	Not Listed
• Benzene, trimethyl-	25551-13-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- **WARNING:** This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H302 - Harmful if swallowed
- H304 - May be fatal if swallowed and enters airways
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- H336 - May cause drowsiness or dizziness
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H411 - Toxic to aquatic life with long lasting effects
- R20 - Harmful by inhalation.
- R22 - Harmful if swallowed.
- R36/37/38 - Irritating to eyes, respiratory system and skin.
- R38 - Irritating to skin.
- R50 - Very toxic to aquatic organisms.
- R51 - Toxic to aquatic organisms.
- R65 - Harmful: may cause lung damage if swallowed.
- R67 - Vapours may cause drowsiness and dizziness.

Revision Date

- 04/November/2015

Preparation Date

- 06/October/2003

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Key to abbreviations

NDA = No data available