

**Biodiesel Blends**

Version 4.0

Revision Date 2013-05-30

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product information**

Trade name : Biodiesel Blends  
Material : 1096219, 1096233, 1096232, 1095628, 1095627, 1095625,  
1095624, 1104935, 1104934

Use : Fuel

**Company** : Specialty Chemicals  
10001 Six Pines Drive  
The Woodlands, TX 77380

**Emergency telephone:****Health:**

866.442.9628 (North America)

1.832.813.4984 (International)

**Transport:**

North America: CHEMTREC 800.424.9300 or 703.527.3887

Asia: +800 CHEMCALL (+800 2436 2255)

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group  
E-mail address : MSDS@CPChem.com  
Website : www.CPChem.com

**SECTION 2: Hazards identification****Emergency Overview****Form:** Liquid **Physical state:** Liquid **Color:** Yellow **Odor:** Slight

OSHA Hazards : Combustible Liquid, Moderate skin irritant, Carcinogen, Target  
Organ Effects

**GHS Classification**

: Flammable liquids, Category 4  
Skin irritation, Category 2  
Eye irritation, Category 2B  
Germ cell mutagenicity, Category 1B  
Carcinogenicity, Category 1A  
Specific target organ systemic toxicity - repeated exposure,  
Category 1, Eyes, Blood  
Specific target organ systemic toxicity - repeated exposure,  
Category 2, Liver, hematopoietic system, Auditory organs  
Specific target organ systemic toxicity - repeated exposure,  
Category 2, Inhalation, Auditory organs  
Aspiration hazard, Category 1

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Acute aquatic toxicity, Category 1  
Chronic aquatic toxicity, Category 1

**GHS-Labeling**

Symbol(s)



Signal Word

: Danger

Hazard Statements

: H227: Combustible liquid  
H304: May be fatal if swallowed and enters airways.  
H315 + H320: Causes skin and eye irritation.  
H340: May cause genetic defects.  
H350: May cause cancer.  
H372: Causes damage to organs (Eyes, Blood, Liver, hematopoietic system, Auditory organs) through prolonged or repeated exposure.  
H373: May cause damage to organs (Auditory organs) through prolonged or repeated exposure if inhaled.  
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**  
P210: Keep away from heat/sparks/open flames/hot surfaces.  
- No smoking.  
P260: Do not breathe dust/fume/gas/mist/vapor/spray.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P331: Do NOT induce vomiting.  
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P391: Collect spillage.  
**Storage:**  
P403 + P235: Store in a well-ventilated place. Keep cool.  
P405: Store locked up.  
**Disposal:**  
P501: Dispose of contents/ container to an approved waste disposal plant.

**Carcinogenicity:****IARC**

Group 2B: Possibly carcinogenic to humans

Light Cycle Oil 64741-59-9

Light Aromatic Solvent 64742-95-6

Naphtha

Naphthalene 91-20-3

Ethylbenzene 100-41-4

**NTP**

Reasonably anticipated to be a human carcinogen

Naphthalene 91-20-3

**ACGIH**

Confirmed animal carcinogen with unknown relevance to humans

Diesel fuel 68476-34-6

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Light Aromatic Solvent 64742-95-6  
 Naphtha  
 Distillates (petroleum), 64742-47-8  
 Hydrotreated light

**SECTION 3: Composition/information on ingredients**

Synonyms : B20 Biodiesel  
 B2  
 B5  
 Discontinued-Biodiesel Blends

Molecular formula : Mixture

Component	CAS-No.	Weight %
Diesel fuel	68476-34-6	0 - 99
C13-C16 Isoalkanes	68551-20-2	0 - 30
Light Cycle Oil	64741-59-9	0 - 30
Light Aromatic Solvent Naphtha	64742-95-6	0 - 20
Naphthalene	91-20-3	1 - 5
Ethylbenzene	100-41-4	1 - 5
Benzene, dimethyl-	1330-20-7	0.1 - 3
Polynuclear Aromatics		0.1 - 2

**SECTION 4: First aid measures**

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

**SECTION 5: Firefighting measures**

Flash point : 78.1 °C (172.6 °F)

Autoignition temperature : Not applicable

Suitable extinguishing media : Carbon dioxide (CO2).

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- |  |   |  |
|--|---|--|
| Unsuitable extinguishing media                 | : | High volume water jet.   |
| Specific hazards during fire fighting          | : | Do not allow run-off from fire fighting to enter drains or water courses.  |
| Special protective equipment for fire-fighters | : | Wear self contained breathing apparatus for fire fighting if necessary.  |
| Further information                            | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers. |
| Fire and explosion protection                  | : | Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.  |
| Hazardous decomposition products               | : | Carbon oxides.   |

**SECTION 6: Accidental release measures**

- |                           |   |   |
|---------------------------|---|---|
| Personal precautions      | : | Use personal protective equipment. Ensure adequate ventilation.   |
| Environmental precautions | : | Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.   |
| Methods for cleaning up   | : | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. |

**SECTION 7: Handling and storage****Handling**

- |   |   |  |
|---|---|--|
| Advice on safe handling                         | : | Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. |
| Advice on protection against fire and explosion | : | Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.  |

**Storage**

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Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

**SECTION 8: Exposure controls/personal protection****Ingredients with workplace control parameters**

US

Ingredients	Basis	Value	Control parameters	Note
Diesel fuel	ACGIH	TWA	100 mg/m3	A3, Skin, varies, Inhalable fraction and vapor
Light Aromatic Solvent Naphtha	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	(b),
	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
<b>Light Aromatic Solvent Naphtha</b>	<b>ACGIH</b>	<b>TWA</b>	<b>200 mg/m3</b>	<b>P, A3, Skin, varies,</b>
Distillates (petroleum), Hydrotreated light	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	(b),
	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
	ACGIH	TWA	200 mg/m3	P, A3, Skin, varies,
<b>Distillates (petroleum), Hydrotreated light Paraffinic</b>	<b>OSHA Z-1</b>	<b>TWA</b>	<b>5 mg/m3</b>	
	<b>ACGIH</b>	<b>TWA</b>	<b>5 mg/m3</b>	<b>*, A4, Inhalable fraction</b>
	OSHA Z-1-A	TWA	5 mg/m3	
Naphthalene	ACGIH	TWA	10 ppm,	A4, Skin,
	ACGIH	STEL	15 ppm,	A4, Skin,
	OSHA Z-1	TWA	10 ppm, 50 mg/m3	(b),
	OSHA Z-1-A	TWA	10 ppm, 50 mg/m3	
	OSHA Z-1-A	STEL	15 ppm, 75 mg/m3	
Ethylbenzene	OSHA Z-1	TWA	100 ppm, 435 mg/m3	(b),
	OSHA Z-1-A	TWA	100 ppm, 435 mg/m3	
	OSHA Z-1-A	STEL	125 ppm, 545 mg/m3	
	ACGIH	TWA	20 ppm,	
Benzene, dimethyl-	ACGIH	TWA	100 ppm,	BEI, A4,
	ACGIH	STEL	150 ppm,	BEI, A4,
	OSHA Z-1	TWA	100 ppm, 435 mg/m3	(b),
	OSHA Z-1-A	TWA	100 ppm, 435 mg/m3	
	OSHA Z-1-A	STEL	150 ppm, 655 mg/m3	

(b) The value in mg/m3 is approximate.

\* 2010 Adoption

A3 Confirmed animal carcinogen with unknown relevance to humans

A4 Not classifiable as a human carcinogen

BEI Substances for which there is a Biological Exposure Index or Indices (see BEI® section)

P Application restricted to conditions in which there are negligible aerosol exposures

Skin Danger of cutaneous absorption

varies varies

**Immediately Dangerous to Life or Health Concentrations (IDLH)**

Substance name	CAS-No.	Control parameters	Update
Distillates (petroleum), Hydrotreated light Paraffinic	64742-55-8	Immediately Dangerous to Life or Health Concentration Value 2500 milligram per cubic meter	1995-03-01
Naphthalene	91-20-3	Immediately Dangerous to Life or Health Concentration Value 250 parts per million	1995-03-01
Ethylbenzene	100-41-4	Immediately Dangerous to Life or Health Concentration Value 800 parts per million	1995-03-01
Benzene, dimethyl-	1330-20-7	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	1995-03-01

**Engineering measures**

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

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Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal protective equipment**

- |                          |   |  |
|--------------------------|---|--|
| Respiratory protection   | : | Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection. |
| Hand protection          | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.   |
| Eye protection           | : | Eye wash bottle with pure water. Tightly fitting safety goggles.   |
| Skin and body protection | : | Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate:. Flame-resistant clothing. Footwear protecting against chemicals.  |
| Hygiene measures         | : | When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.   |

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties****Appearance**

- |                |   |        |
|----------------|---|--------|
| Form           | : | Liquid |
| Physical state | : | Liquid |
| Color          | : | Yellow |
| Odor           | : | Slight |

**Safety data**

- |                       |   |                    |
|-----------------------|---|--------------------|
| Flash point           | : | 78.1 °C (172.6 °F) |
| Lower explosion limit | : | No data available  |
| Upper explosion limit | : | No data available  |

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Oxidizing properties	: No
Autoignition temperature	: Not applicable
Molecular formula	: Mixture
Molecular Weight	: Not applicable
pH	: No data available
Pour point	: No data available
Boiling point/boiling range	: 190 °C (374 °F)
Vapor pressure	: No data available
Relative density	: 0.8494, 15.6 °C(60.1 °F)
Density	: 0.8494 g/cm <sup>3</sup>
Water solubility	: Negligible
Partition coefficient: n-octanol/water	: No data available
Viscosity, kinematic	: 5.54 cSt
Relative vapor density	: No data available
Evaporation rate	: No data available

**SECTION 10: Stability and reactivity**

Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
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**Possibility of hazardous reactions**

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Other data	: No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

<b>Biodiesel Blends</b> <b>Acute oral toxicity</b>	: LD50: > 5,000 mg/kg Method: Acute toxicity estimate
<b>Biodiesel Blends</b> <b>Acute inhalation toxicity</b>	: LC50: > 20 mg/l

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Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: Acute toxicity estimate

**Biodiesel Blends**  
**Acute dermal toxicity**

: LD50: > 5,000 mg/kg  
 Method: Acute toxicity estimate

**Biodiesel Blends**  
**Skin irritation**

: Irritating to skin and mucous membranes.

**Biodiesel Blends**  
**Eye irritation**

: May cause eye irritation.

**Biodiesel Blends**  
**Sensitization**

: No adverse effects expected.

**Biodiesel Blends**  
**Repeated dose toxicity**

: Method: Based on product or component testing, long term repeated exposure may cause damage to the following organs:  
 Target Organs: Auditory organs, Eyes, Blood  
 Estimated based on individual component values.

**Biodiesel Blends**  
**Carcinogenicity**

: Method: Estimated based on individual component values.  
 Remarks: Suspect cancer hazard

**Teratogenicity**

Diesel fuel

: Species: rat  
 Application Route: Inhalation  
 Dose: 0, 100, 400 ppm  
 Number of exposures: 6 h/d  
 Test period: GD 6-15  
 NOAEL Teratogenicity: 401.5 ppm  
 NOAEL Maternal: 401.5 ppm

Light Cycle Oil

Species: rat  
 Application Route: Dermal  
 Dose: 0, 25, 50, 125, 250, 500, 1...  
 Number of exposures: daily  
 Test period: GD 0-19  
 NOAEL Maternal: 125 mg/kg

Naphthalene

Species: rabbit  
 Application Route: oral gavage  
 Dose: 40, 200, 400 mg/kg  
 Test period: 29 d, GD 6-18  
 NOAEL Teratogenicity: 400 mg/kg

Benzene, dimethyl-

Species: rat  
 Application Route: Inhalation  
 Dose: 0, 805, 1610 ppm  
 Number of exposures: 6 h/d



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Test period: GD 7-16  
NOAEL Maternal: 1610 ppm

Species: mouse  
Application Route: oral gavage  
Dose: 0, 780, 1960, 2619 mg/kg  
Number of exposures: 3 times/d  
Test period: GD 6-15  
NOAEL Teratogenicity: 780 mg/kg  
NOAEL Maternal: 780 mg/kg

**Biodiesel Blends**  
**Aspiration toxicity**

: May be fatal if swallowed and enters airways.  
Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

**CMR effects**

Ethylbenzene

: Carcinogenicity: Carcinogenicity classification not possible from current data.  
Mutagenicity: In vivo tests did not show mutagenic effects  
Teratogenicity: Did not show teratogenic effects in animal experiments.  
Reproductive toxicity: No toxicity to reproduction

Benzene, dimethyl-

Carcinogenicity: Limited evidence of carcinogenicity in animal studies  
Mutagenicity: Did not show mutagenic effects in animal experiments.  
Teratogenicity: Damage to fetus not classifiable

**Biodiesel Blends**  
**Further information**

: Solvents may degrease the skin.

**SECTION 12: Ecological information****Ecotoxicity effects****Toxicity to fish**

: LC50: 1 - 10 mg/l  
Exposure time: 96 h  
Method: Estimated based on individual component values.

**Toxicity to daphnia and**  
**other aquatic invertebrates**

: LC50: 1 - 10 mg/l  
Exposure time: 48 h  
Method: Estimated based on individual component values.

**Toxicity to algae**

: EC50: 1 - 10 mg/l  
Exposure time: 96 h  
Estimated based on individual component values.

Elimination information (persistence and degradability)

Biodegradability

: Expected to be inherently biodegradable.

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**Results of PBT assessment**

- Ethylbenzene : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
- Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

**SECTION 13: Disposal considerations**

The information in this MSDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

- Product : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14: Transport information**

**The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).**

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

NA1993, DIESEL FUEL, COMBUSTIBLE LIQUID, III

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (NAPHTHALENE, ETHYLBENZENE), 9, III, (78.1 °C), MARINE POLLUTANT, (NAPHTHALENE, ETHYLBENZENE)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (NAPHTHALENE, ETHYLBENZENE), 9, III

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**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**UN1202, DIESEL FUEL, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS,  
(NAPHTHALENE, ETHYLBENZENE)**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**UN1202, DIESEL FUEL, 3, III, ENVIRONMENTALLY HAZARDOUS, (NAPHTHALENE,  
ETHYLBENZENE)**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**UN1202, DIESEL FUEL, 3, III, ENVIRONMENTALLY HAZARDOUS, (NAPHTHALENE,  
ETHYLBENZENE)**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code****SECTION 15: Regulatory information****National legislation****SARA 311/312 Hazards**: Fire Hazard  
Acute Health Hazard  
Chronic Health HazardCERCLA Reportable  
Quantity: 4785 lbs  
NaphthaleneSARA 302 Reportable  
Quantity: This material does not contain any components with a SARA  
302 RQ.SARA 302 Threshold  
Planning Quantity: SARA 302: No chemicals in this material are subject to the  
reporting requirements of SARA Title III, Section 302.SARA 304 Reportable  
Quantity: This material does not contain any components with a section  
304 EHS RQ.

SARA 313 Ingredients

: The following components are subject to reporting levels  
established by SARA Title III, Section 313:: Naphthalene - 91-20-3  
Ethylbenzene - 100-41-4  
Benzene, dimethyl- - 1330-20-7

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**Clean Air Act**

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):  
: Ethylbenzene - 100-41-4  
Benzene, dimethyl- - 1330-20-7

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

: Ethylbenzene - 100-41-4  
Benzene, dimethyl- - 1330-20-7

**US State Regulations****Pennsylvania Right To Know**

: Diesel fuel - 68476-34-6  
Distillates (petroleum), Hydrotreated light - 64742-47-8  
Distillates (petroleum), Hydrotreated light Paraffinic - 64742-55-8  
Naphthalene - 91-20-3  
Ethylbenzene - 100-41-4  
Benzene, dimethyl- - 1330-20-7

**New Jersey Right To Know**

: Distillates (petroleum), Hydrotreated light - 64742-47-8  
Distillates (petroleum), Hydrotreated light Paraffinic - 64742-55-8  
Naphthalene - 91-20-3  
Ethylbenzene - 100-41-4  
Benzene, dimethyl- - 1330-20-7

**California Prop. 65  
Ingredients**

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

WARNING! This product contains a chemical known in the State of California to cause cancer.

Naphthalene	91-20-3
Ethylbenzene	100-41-4

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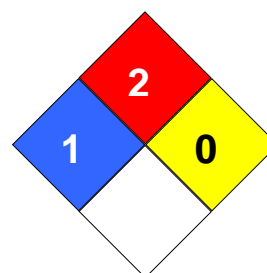
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**Notification status**

Europe REACH : Not in compliance with the inventory  
 United States of America US.TSCA : On TSCA Inventory  
 Canada NDSL : This product contains one or several components listed in the Canadian NDSL.  
 Australia AICS : Not in compliance with the inventory  
 New Zealand NZIoC : Not in compliance with the inventory  
 Japan ENCS : On the inventory, or in compliance with the inventory  
 Korea KECI : Not in compliance with the inventory  
 Philippines PICCS : Not in compliance with the inventory  
 China IECSC : Not in compliance with the inventory

**SECTION 16: Other information**

**NFPA Classification** : Health Hazard: 1  
 Fire Hazard: 2  
 Reactivity Hazard: 0

**Further information**

Legacy MSDS Number : CPC00405

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this MSDS pertains only to the product as shipped.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit

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	Chemicals Association		
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		