

**PRF Octane No. Blends (60, 80-99)**

Version 1.8

Revision Date 2016-02-03

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

Product Name : PRF Octane No. Blends (60, 80-99)  
Material : 1024452, 1024451, 1024450, 1024448, 1024447, 1024446,  
1024444, 1024443, 1024442, 1024440, 1024439, 1024438,  
1024436, 1024435, 1024434, 1024432, 1024431, 1024430,  
1024428, 1024427, 1024426, 1024424, 1024423, 1024422,  
1024420, 1024419, 1024418, 1024416, 1024415, 1024414,  
1024412, 1024411, 1024410, 1024408, 1024407, 1024406,  
1024404, 1024403, 1024402, 1024400, 1024399, 1024398,  
1024396, 1024395, 1024394, 1024392, 1024391, 1024390,  
1024388, 1024384, 1024383, 1024382, 1024381, 1024380,  
1024379, 1024378, 1024376, 1024372, 1024341, 1024340,  
1024339, 1024386, 1024387, 1024453, 1024449, 1024445,  
1024441, 1024437, 1024433, 1024429, 1024425, 1024421,  
1024342, 1024417, 1024413, 1024409, 1024405, 1024401,  
1024397, 1024393, 1024389, 1024385, 1024377, 1024375,  
1024374

Use : Reference Fuel

**Company** : Chevron Phillips Chemical Company LP  
Specialty Chemicals  
10001 Six Pines Drive  
The Woodlands, TX 77380

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

866.442.9628 (North America)

1.832.813.4984 (International)

**Transport:**

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316

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 : SDS@CPChem.com

Website : www.CPChem.com

**SECTION 2: Hazards identification****Classification of the substance or mixture**

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This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

**Emergency Overview****Danger**

**Physical state:** Liquid    **Color:** Colorless    **Odor:** gasoline-like

OSHA Hazards : Flammable Liquid, Moderate skin irritant, Specific target organ systemic toxicity - single exposure, Aspiration hazard

**Classification**

: Flammable liquids , Category 2  
 Skin irritation , Category 2  
 Specific target organ systemic toxicity - single exposure ,  
 Category 3 , Central nervous system  
 Aspiration hazard , Category 1

**Labeling**

Symbol(s)



Signal Word

: Danger

Hazard Statements

: H225: Highly flammable liquid and vapor.  
 H304: May be fatal if swallowed and enters airways.  
 H315: Causes skin irritation.  
 H335: May cause respiratory irritation.  
 H336: May cause drowsiness or dizziness.

Precautionary Statements

: **Prevention:**  
 P210 Keep away from heat/sparks/open flames/hot surfaces.  
 No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/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.  
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P264 Wash skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
 P301 + P310 IF SWALLOWED: Immediately call a POISON  
 CENTER or doctor/ physician.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take  
 off immediately all contaminated clothing. Rinse skin with  
 water/ shower.  
 P304 + P340 IF INHALED: Remove victim to fresh air and  
 keep at rest in a position comfortable for breathing.  
 P312 Call a POISON CENTER or doctor/ physician if you  
 feel unwell.  
 P331 Do NOT induce vomiting.

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P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
**Storage:**  
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 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**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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

Synonyms : Primary Reference Fuel  
60,80-99 Octane Reference Fuel

Molecular formula : Mixture

Component	CAS-No.	Weight %
2,2,4-Trimethylpentane (Isooctane)	540-84-1	60 - 100
n-Heptane	142-82-5	30 - 60

**SECTION 4: First aid measures**

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

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

In case of skin contact : If skin irritation persists, call a physician. 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.

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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 : -8 °C (18 °F)  
Method: Tag closed cup

Autoignition temperature : No data available

Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

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 firefighting 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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. 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. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

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

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local / national regulations (see section 13).

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

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. 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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

**Storage**

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
2,2,4-Trimethylpentane (Isooctane)	ACGIH	TWA	300 ppm,	
	ACGIH	TWA	300 ppm,	
n-Heptane	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	(b),
	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
	OSHA Z-1-A	STEL	500 ppm, 2,000 mg/m3	
	ACGIH	TWA	400 ppm,	
	ACGIH	STEL	500 ppm,	

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

**Personal protective equipment**

Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Physical state : Liquid  
Color : Colorless  
Odor : gasoline-like

**Safety data**

Flash point : -8 °C (18 °F)  
Method: Tag closed cup

Lower explosion limit : 1 %(V)  
Upper explosion limit : 7 %(V)

Oxidizing properties : no

Autoignition temperature : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

pH : Not applicable

Freezing point : No data available

Pour point : No data available

Boiling point/boiling range : 96 - 103 °C (205 - 217 °F)

Vapor pressure : 1.70 PSI  
at 37.8 °C (100.0 °F)

Relative density : 0.693  
at 15.6 °C (60.1 °F)

Water solubility : Negligible

Partition coefficient: n-  
octanol/water : No data available

Viscosity, kinematic : No data available

Relative vapor density : 3  
(Air = 1.0)

Evaporation rate : 1

Percent volatile : > 99 %

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**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.

**Possibility of hazardous reactions**

Conditions to avoid : Heat, sparks, fire, and oxidizing agents.  
Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous decomposition products : Carbon oxides

Other data : No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information****Acute oral toxicity**

2,2,4-Trimethylpentane (Isooctane) : LD50: > 5,000 mg/kg  
Species: Rat  
Sex: male and female  
Method: OECD Test Guideline 401  
Symptoms: Salivation

n-Heptane : LD50: > 5,000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401  
Information given is based on data obtained from similar substances.

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**Acute inhalation toxicity** : Acute toxicity estimate: > 20 mg/l  
Test atmosphere: dust/mist  
Method: Calculation method

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**Acute dermal toxicity** : LD50: > 2,000 mg/kg  
Species: Rabbit

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**Skin irritation** : May cause skin irritation in susceptible persons.

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**Eye irritation** : Vapors may cause irritation to the eyes, respiratory system and the skin.

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**Sensitization** : No adverse effects expected.

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**Repeated dose toxicity**

2,2,4-Trimethylpentane (Isooctane) : Species: Rat, Male and female  
Sex: Male and female  
Application Route: Inhalation  
Dose: 0, 668, 2220, 6646 ppm  
Exposure time: 13 weeks  
Number of exposures: 6 hr/day 5 d/wk  
NOEL: 8.117 mg/l 2220 ppm  
Method: OECD Guideline 413  
Information given is based on data obtained from similar substances.

n-Heptane Species: Rat, male  
Sex: male  
Application Route: Inhalation  
Dose: 12.47 mg/l  
Exposure time: 16 wk  
Number of exposures: 12 h/d, 7 d/wk  
NOEL: 12.47 mg/l  
No adverse effect has been observed in chronic toxicity tests.

**Reproductive toxicity**

2,2,4-Trimethylpentane (Isooctane) : Species: Rat  
Sex: male and female  
Application Route: Inhalation  
Dose: 0, 900, 3000, 9000 ppm  
Number of exposures: 6 h/d 5 d/wk  
Method: OECD Test Guideline 416  
NOAEL Parent: 3000 ppm  
NOAEL F1: 3000 ppm  
NOAEL F2: 3000 ppm  
Information given is based on data obtained from similar substances.

n-Heptane Species: Rat  
Application Route: Inhalation  
Dose: 0, 900, 3000, 9000 ppm  
Number of exposures: 6 hr/d, 5 d/wk  
Test period: 13 wk  
Method: OECD Test Guideline 416  
NOAEL Parent: 9000 ppm  
NOAEL F1: 3000 ppm  
NOAEL F2: 3000 ppm

**Developmental Toxicity**

2,2,4-Trimethylpentane (Isooctane) : Species: Rat  
Application Route: Inhalation  
Dose: 0, 400, 1200 ppm  
Number of exposures: 6h/d  
Test period: GD6-15  
NOAEL Teratogenicity: 1200 ppm  
NOAEL Maternal: 1200 ppm  
Information given is based on data obtained from similar substances.



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Species: Rat  
 Application Route: Inhalation  
 Dose: 0, 900, 3000, 9000 ppm  
 Number of exposures: 6h/d  
 Test period: GD6-15  
 Method: OECD Guideline 414  
 NOAEL Teratogenicity: 9000 ppm  
 NOAEL Maternal: 3000 ppm  
 Information given is based on data obtained from similar substances.

n-Heptane

Species: Rat  
 Application Route: Inhalation  
 Dose: 0, 900, 3000, 9000 ppm  
 Exposure time: GD6-15  
 Number of exposures: 6 hrs/d  
 NOAEL Teratogenicity: 9000 ppm  
 NOAEL Maternal: 3000 ppm

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**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**

2,2,4-Trimethylpentane (Isooctane) : Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
 Teratogenicity: Animal testing did not show any effects on fetal development.  
 Reproductive toxicity: Animal testing did not show any effects on fertility.

n-Heptane

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
 Teratogenicity: Animal testing did not show any effects on fetal development.  
 Reproductive toxicity: No toxicity to reproduction

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**Further information** : Solvents may degrease the skin.

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

2,2,4-Trimethylpentane (Isooctane) : LC50: 0.11 mg/l  
 Exposure time: 96 h  
 Species: Oncorhynchus mykiss (rainbow trout)  
 semi-static test Method: OECD Test Guideline 203  
 Information given is based on data obtained from similar substances.

n-Heptane

LL50: 1.284 mg/l  
 Exposure time: 96 h  
 Species: Oncorhynchus mykiss (rainbow trout)

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Method: QSAR

LC50: 375 mg/l

Exposure time: 96 h

Species: Tilapia mosambica (Fish)

**Toxicity to daphnia and other aquatic invertebrates**

2,2,4-Trimethylpentane (Isooctane) : EC50: 0.4 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 static test Information given is based on data obtained from similar substances.

n-Heptane EC50: 1.5 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 static test Toxic to aquatic organisms.

LC50: 0.1 mg/l  
 Exposure time: 96 h  
 Species: Mysidopsis bahia (mysid shrimp)  
 semi-static test Very toxic to aquatic organisms.

**Toxicity to algae**

2,2,4-Trimethylpentane (Isooctane) : EL50: 2.943 mg/l  
 Exposure time: 72 h  
 Method: QSAR modeled data

n-Heptane EL50: 4.338 mg/l  
 Exposure time: 72 h  
 Species: Pseudokirchneriella subcapitata (microalgae)  
 Method: QSAR

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)**

2,2,4-Trimethylpentane (Isooctane) : NOEC: 0.17 mg/l  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)

Elimination information (persistence and degradability)

Biodegradability : Not applicable

**Ecotoxicology Assessment**

Acute aquatic toxicity  
 2,2,4-Trimethylpentane (Isooctane) : Very toxic to aquatic life.  
 n-Heptane : Very toxic to aquatic life.

Chronic aquatic toxicity  
 2,2,4-Trimethylpentane : Very toxic to aquatic life with long lasting effects.

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(Isooctane) n-Heptane	: Very toxic to aquatic life with long lasting effects.
Results of PBT assessment 2,2,4-Trimethylpentane (Isooctane) n-Heptane	: Non-classified PBT substance, Non-classified vPvB substance : Non-classified PBT substance, Non-classified vPvB substance
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 SDS 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 SDS and the bill of lading.

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

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II, MARINE POLLUTANT, (2,2,4-TRIMETHYLPENTANE (ISOOCTANE), N-HEPTANE), RQ (2,2,4-TRIMETHYLPENTANE (ISOOCTANE))

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

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II, (-8 °C), MARINE POLLUTANT, (2,2,4-TRIMETHYLPENTANE (ISOOCTANE), N-HEPTANE)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II

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**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**

UN1268, PETROLEUM PRODUCTS, N.O.S., 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (2,2,4-TRIMETHYLPENTANE (ISOOCTANE), N-HEPTANE)

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

UN1268, PETROLEUM PRODUCTS, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS, (2,2,4-TRIMETHYLPENTANE (ISOOCTANE), N-HEPTANE)

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**

UN1268, PETROLEUM PRODUCTS, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS, (2,2,4-TRIMETHYLPENTANE (ISOOCTANE), N-HEPTANE)

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

**CERCLA Reportable Quantity** : 1007 lbs  
2,2,4-Trimethylpentane (Isooctane)

**SARA 302 Threshold Planning Quantity** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Ingredients** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**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).

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This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

**US State Regulations****Massachusetts Right To Know**

: n-Heptane - 142-82-5  
2,2,4-Trimethylpentane (Isooctane) - 540-84-1

**Pennsylvania Right To Know**

: n-Heptane - 142-82-5  
2,2,4-Trimethylpentane (Isooctane) - 540-84-1

**New Jersey Right To Know**

: n-Heptane - 142-82-5  
2,2,4-Trimethylpentane (Isooctane) - 540-84-1

**California Prop. 65  
Ingredients**

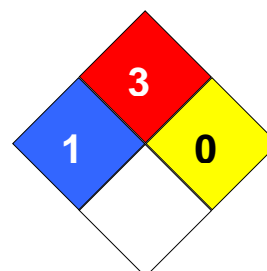
: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**Notification status**

Europe REACH	:	On the inventory, or in compliance with the inventory
United States of America TSCA	:	On the inventory, or in compliance with the inventory
Canada DSL	:	On the inventory, or in compliance with the inventory
Australia AICS	:	On the inventory, or in compliance with the inventory
New Zealand NZIoC	:	On the inventory, or in compliance with the inventory
Japan ENCS	:	On the inventory, or in compliance with the inventory
Korea KECI	:	On the inventory, or in compliance with the inventory
Philippines PICCS	:	On the inventory, or in compliance with the inventory
China IECSC	:	On the inventory, or in compliance with the inventory

**SECTION 16: Other information****NFPA Classification**

: Health Hazard: 1  
Fire Hazard: 3  
Reactivity Hazard: 0



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**Further information**

Legacy SDS Number : 28440

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

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

The information provided in this 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 Chemicals Association	PEL	Permissible Exposure Limit
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%		