Diesel Reference Fuel U-30

Version 1.10 Revision Date 2017-05-15

according to GB/T 16483 and GB/T 17519

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

Product information

Product Name	:	Diesel Reference Fuel U-30
Material	:	1108915, 1024281, 1024280, 1032195, 1024277, 1024279, 1024278
Use	:	Reference Fuel
Company	:	Chevron Phillips Chemical Company LP Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380
Local	:	Chevron Phillips Chemicals (Shanghai) Corporation Room 1810-1812, Shanghai Mart, 2299 Yan An Road (W), Shanghai, PRC 200336 local emergency contact number : 0532-83889090

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: CHEMWATCH (+612 9186 1132)
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Mexico CHEMTREC 01-800-681-9531 (24 hours)
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
GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2011)

Emergency Overview

Danger

Physical state: Liquid **Color**: Yellow **Odor**: Stench

Hazards : Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure if inhaled. May be fatal if swallowed and enters airways. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Classification

: Flammable liquids, Category 3
Skin corrosion/irritation, Category 2
Serious eye damage/eye irritation, Category 2A
Carcinogenicity, Category 1B
Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system
Specific target organ systemic toxicity - repeated exposure, Category 2, Blood, Liver, thymus gland
Specific target organ systemic toxicity - repeated exposure, Category 2, Inhalation, Auditory organs
Aspiration hazard, Category 1
Acute aquatic toxicity, Category 1
Chronic aquatic toxicity, Category 2

Labeling

Symbol(s) :

Signal Word : Danger

Hazard Statements : H226: Flammable liquid and vapor.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H350: May cause cancer.
H373: May cause damage to organs (Blood, Liver, thymus gland) through prolonged or repeated exposure.
H373: May cause damage to organs (Auditory organs) through prolonged or repeated exposure if inhaled.
H400: Very toxic to aquatic life.
H411: Toxic 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/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.
P260: Do not breathe dust/fume/gas/mist/vapor/spray.
P264: Wash skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
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/doctor.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313: IF exposed or concerned: Get medical advice/ attention.
P331: Do NOT induce vomiting.
P332 + P313: If skin irritation occurs: Get medical advice/ attention.
P337 + P313: If eye irritation persists: Get medical advice/ attention.
P362 + P364: Take off contaminated clothing and wash it before reuse.
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391: Collect spillage.
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.

SECTION 3: Composition/information on ingredients

Synonyms : Diesel Reference Fuel U

Molecular formula : Mixture

Chemical name	CAS-No. / EINECS-No.	Concentration [wt%]
Distillates (petroleum), Hydrotreated light	64742-47-8	100
Aromatic hydrocarbons, C9-11	70693-06-0	30 - 50
Light Aromatic Solvent Naphtha	64742-95-6	20 - 30
Solvent Naphtha (Petroleum), Heavy	64742-94-5	20 - 30

Aromatic		
1,2,4-Trimethylbenzene	95-63-6	10 - 20
Ethylbenzene	100-41-4	10 - 20
Light Cycle Oil	64741-59-9	10 - 20
Benzene, dimethyl-	1330-20-7	1 - 10
1,3,5-Trimethylbenzene	108-67-8	1 - 5
1,2,3-trimethylbenzene	526-73-8	1 - 10
Cumene	98-82-8	1 - 10
Naphthalene	91-20-3	0.1 - 0.5

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 skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water. 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 : 44.9 °C (112.8 °F)
Method: Tag closed cup

Autoignition temperature : No data available

Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO2). 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). 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 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 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. 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). 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

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Ingredients	Basis	Value	Control parameters	Note
Ethylbenzene	GBZ 2.1-2007	PC-TWA	100 mg/m3	G2B,
	GBZ 2.1-2007	PC-STEL	150 mg/m3	G2B,
Benzene, dimethyl-	GBZ 2.1-2007	PC-TWA	50 mg/m3	
	GBZ 2.1-2007	PC-STEL	100 mg/m3	
Naphthalene	GBZ 2.1-2007	PC-TWA	50 mg/m3	G2B, Skin,
	GBZ 2.1-2007	PC-STEL	75 mg/m3	G2B, Skin,

G2B G2B - Possibly carcinogenic to humans
Skin Skin

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Ethylbenzene	100-41-4		2002-04-30
Benzene, dimethyl-	1330-20-7		2002-04-30
Naphthalene	91-20-3		2002-04-30
Ethylbenzene	100-41-4		2002-04-30
o-xylene	95-47-6		2002-04-30
Benzene, dimethyl-	1330-20-7		2002-04-30
p-xylene	106-42-3		2002-04-30
m-xylene	108-38-3		2002-04-30
Naphthalene	91-20-3		2002-04-30

Not applicable

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Substance name	CAS-No.	Control parameters	Sampling time	Update

Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. 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 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. 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:. 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 in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
Protective measures	:	Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state	:	Liquid
Color	:	Yellow
Odor	:	Stench

Safety data

Flash point	:	44.9 °C (112.8 °F) Method: Tag closed cup
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Oxidizing properties	:	No
Autoignition temperature	:	No data available
Thermal decomposition	:	No data available
Molecular formula	:	Mixture
Molecular weight	:	Not applicable
pH	:	Not applicable
Pour point	:	No data available
Boiling point/boiling range	:	146 - 316 °C (295 - 601 °F)

Vapor pressure	:	No data available
Relative density	:	0.817 at 15.6 °C (60.1 °F)
Density	:	817.1 g/l
Water solubility	:	Negligible
Partition coefficient: n-octanol/water	:	No data available
Viscosity, kinematic	:	1.8 cSt at 40 °C (104 °F)
Relative vapor density	:	3 (Air = 1.0)
Evaporation rate	:	< 1
Percent volatile	:	> 99 %

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, flames and sparks.
Materials to avoid	:	May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Thermal decomposition	:	No data available
Hazardous decomposition products	:	Carbon oxides
Other data	:	No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Diesel Reference Fuel U-30

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

Diesel Reference Fuel U-30

Acute inhalation toxicity	:	LC50: > 20 mg/l Exposure time: 4 h Species: Rat

Test atmosphere: dust/mist
Method: Acute toxicity estimate

Diesel Reference Fuel U-30
Acute dermal toxicity : LD50: > 5,000 mg/kg
Species: Rabbit
Method: Acute toxicity estimate

Diesel Reference Fuel U-30
Skin irritation : Skin irritation

May cause skin irritation in susceptible persons.

Diesel Reference Fuel U-30
Eye irritation : Eye irritation.
May cause irreversible eye damage.

Diesel Reference Fuel U-30
Sensitization : Does not cause sensitization.

Diesel Reference Fuel U-30
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, Thymus, Liver
Estimated based on individual component values.

Diesel Reference Fuel U-30
Carcinogenicity : Method: Expected to be carcinogenic based on individual component data.

Developmental Toxicity

Distillates (petroleum), Hydrotreated light : Species: Rat
Application Route: Inhalation
Dose: 0, 106, 364 mg/l
Exposure time: 6h/d
Test period: GD 6 - 20
NOAEL Teratogenicity: >= 364 mg/l
NOAEL Maternal: >= 364 mg/l

Species: Rat
Application Route: oral gavage
Dose: 500, 1000, 1500, 2000 mg/kg/d
Exposure time: 10 d
Test period: GD 6 - 15
Method: OECD Guideline 414
NOAEL Teratogenicity: 1,000 mg/kg
NOAEL Maternal: 500 mg/kg

Aromatic hydrocarbons, C9-11 : Species: Rat
Application Route: Oral diet
Dose: 0, 75, 150, 450 mg/kg/day
Exposure time: GD 6-15
NOAEL Teratogenicity: >450 mg/kg/day
NOAEL Maternal: 150 mg/kg/day

Light Cycle Oil	Species: Rat Application Route: Dermal Dose: 1, 50, 250 mg/kg/d Number of exposures: once daily Test period: GD 0-19 Method: OECD Guideline 414 NOAEL Teratogenicity: 1 mg/kg NOAEL Maternal: 1 mg/kg
Benzene, dimethyl-	Species: Rat Application Route: Inhalation Dose: 0, 805, 1610 ppm Number of exposures: 6 h/d 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
Cumene	Species: Rat Application Route: Inhalation Dose: 0, 100, 500, 1200 ppm Number of exposures: 6 h/d Test period: GD 6-15 NOAEL Teratogenicity: > 1200 ppm NOAEL Maternal: 100 ppm Species: Rabbit Application Route: Inhalation Dose: 0, 500, 1200, 2300 ppm Number of exposures: 6 h/d Test period: GD 6-18 NOAEL Teratogenicity: > 2300 ppm
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

Diesel Reference Fuel U-30

Aspiration toxicity : Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

CMR effects

Ethylbenzene	:	Mutagenicity: In vivo tests did not show mutagenic effects Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: No toxicity to reproduction
Light Cycle Oil		Carcinogenicity: Possible human carcinogen

Benzene, dimethyl-	Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Did not show mutagenic effects in animal experiments. Teratogenicity: Damage to fetus not classifiable
Naphthalene	Carcinogenicity: Limited evidence of carcinogenicity in animal studies

Diesel Reference Fuel U-30
Further information : Solvents may degrease the skin.

SECTION 12: Ecological information

Ecotoxicity effects

Toxicity to fish : Very toxic to fish.
Estimated based on individual component values.

Toxicity to daphnia and other aquatic invertebrates : LC50: < 1 mg/l
Exposure time: 48 h
Method: Estimated based on individual component values.

Toxicity to algae : EC50: < 1 mg/l
Exposure time: 96 h
Method: Estimated based on individual component values.

Distillates (petroleum), light catalytic cracked : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Distillates (petroleum), Hydrotreated light : NOEC: 0.48 mg/l
Exposure time: 21 Days
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Ethylbenzene : NOEC: 1 mg/l
Exposure time: 7 d
Species: Daphnia pulex (Water flea)
semi-static test
Analytical monitoring: yes

Elimination information (persistence and degradability)

Bioaccumulation

Aromatic hydrocarbons, C9-11 : Does not significantly accumulate in organisms.

Solvent Naphtha (Petroleum), Heavy Aromatic : Does not significantly accumulate in organisms.

Benzene, dimethyl- : This material is not expected to bioaccumulate.

Biodegradability : No data available

Ecotoxicology Assessment

Acute aquatic toxicity		
Distillates (petroleum), Hydrotreated light	:	Toxic to aquatic life.
Light Aromatic Solvent Naphtha	:	Toxic to aquatic life.
Solvent Naphtha (Petroleum), Heavy Aromatic	:	Toxic to aquatic life.
1,2,4-Trimethylbenzene	:	Toxic to aquatic life.
Ethylbenzene	:	Toxic to aquatic life.
Light Cycle Oil	:	Very toxic to aquatic life.
Benzene, dimethyl-	:	Toxic to aquatic life.
1,3,5-Trimethylbenzene	:	Toxic to aquatic life.
1,2,3-trimethylbenzene	:	Toxic to aquatic life.
Cumene	:	Toxic to aquatic life.
Naphthalene	:	Very toxic to aquatic life.
Chronic aquatic toxicity		
Distillates (petroleum), Hydrotreated light	:	Toxic to aquatic life with long lasting effects.
Light Aromatic Solvent Naphtha	:	Toxic to aquatic life with long lasting effects.
Solvent Naphtha (Petroleum), Heavy Aromatic	:	Toxic to aquatic life with long lasting effects.
1,2,4-Trimethylbenzene	:	Toxic to aquatic life with long lasting effects.
Ethylbenzene	:	Harmful to aquatic life with long lasting effects.
Light Cycle Oil	:	Very toxic to aquatic life with long lasting effects.
1,3,5-Trimethylbenzene	:	Toxic to aquatic life with long lasting effects.
1,2,3-trimethylbenzene	:	Toxic to aquatic life with long lasting effects.
Naphthalene	:	Very toxic to aquatic life with long lasting effects.
Toxicity Data on Soil	:	No data available
Other organisms relevant to the environment	:	No data available
Impact on Sewage Treatment	:	No data available
Results of PBT assessment		
Ethylbenzene	:	Non-classified vPvB substance, Non-classified PBT substance
Light Cycle Oil	:	Non-classified PBT substance, Non-classified vPvB substance
Additional ecological	:	An environmental hazard cannot be excluded in the event of

information	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)
UN1202, DIESEL FUEL, 3, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
UN1202, DIESEL FUEL, 3, III, (44.9 °C), MARINE POLLUTANT, (DISTILLATES (PETROLEUM) HYDROTREATED LIGHT)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)
UN1202, DIESEL FUEL, 3, III

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))
UN1202, DIESEL FUEL, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (DISTILLATES (PETROLEUM) HYDROTREATED LIGHT)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))
UN1202, DIESEL FUEL, 3, III, ENVIRONMENTALLY HAZARDOUS, (DISTILLATES (PETROLEUM) HYDROTREATED LIGHT)

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

UN1202, DIESEL FUEL, 3, III, ENVIRONMENTALLY HAZARDOUS, (DISTILLATES (PETROLEUM) HYDROTREATED LIGHT)

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

SECTION 15: Regulatory information

Notification status

Europe REACH	:	On the inventory, or in compliance with the inventory
Switzerland CH INV	:	On the inventory, or in compliance with the inventory
United States of America (USA) TSCA	:	On TSCA Inventory
Canada DSL	:	All components of this product are on the Canadian DSL
Australia AICS	:	On the inventory, or 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	:	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

Other regulations : Law on the Prevention and Control of Occupational Diseases

SECTION 16: Other information

Further information

Legacy SDS Number : 664950

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%		