

Orfom® SX-12 (Solvent Extraction Diluent)

Version 1.3

Revision Date 2023-11-09

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 : Orfom® SX-12 (Solvent Extraction Diluent)
 Material : 1111854, 1102155, 1098697, 1096235, 1016863, 1016865,
 1016864

Use : Solvent Extraction Diluent

Company : Chevron Phillips Chemical Company LP
 Mining 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: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

Mexico CHEMTREC 01-800-681-9531 (24 hours)

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

Argentina: +(54)-1159839431

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

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212

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

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

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

Greece: (0030) 2107793777 (24 hours/day, 7 days/week)

Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

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

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

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Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.)

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

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000

Norway: 22 59 13 00 (24 hours/day, 7 days/week)

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

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606

Slovakia: +421 2 5477 4166

Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

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:** Clear, Colorless **Odor:** characteristic

Hazards : Combustible liquid. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure if inhaled. May be fatal if swallowed and enters airways. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Classification

: Flammable liquids, Category 4
Specific target organ toxicity - single exposure, Category 3, Narcotic effects
Specific target organ toxicity - repeated exposure, Category 1, Inhalation, Central nervous system
Aspiration hazard, Category 1
Short-term (acute) aquatic hazard, Category 2
Long-term (chronic) aquatic hazard, Category 2

Labeling

Symbol(s) :



Signal Word :

Danger

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Hazard Statements : H227: Combustible liquid.
 H304: May be fatal if swallowed and enters airways.
 H336: May cause drowsiness or dizziness.
 H372: Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.
 H411: 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/ vapors/ spray.
 P264: Wash skin thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/ eye protection/ face protection.
Response:
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
 P314: Get medical advice/ attention if you feel unwell.
 P331: Do NOT induce vomiting.
 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 : Low Aromatic Solvent
 Solvent
 Solvent Extraction Diluent

Molecular formula : UVCB

Chemical name	CAS-No. / EINECS-No.	Concentration [wt%]
Distillates (petroleum), Hydrotreated light	64742-47-8	100

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

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- serious, potentially fatal pneumonia if swallowed or vomited.
- If inhaled : Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
- 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.
- 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 : 79-80°C (174-176°F)
- Autoignition temperature : 227°C (441°F)
- Suitable extinguishing media : Carbon dioxide (CO₂).
- 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 a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
- Hazardous decomposition products : Hydrocarbons. 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

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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 a naked flame or any incandescent material. 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.

Use : Solvent Extraction Diluent

SECTION 8: Exposure controls/personal protection

Not applicable

Engineering measures

Adequate ventilation to control airborne 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 : If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as: A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure

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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 protective 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**

- Physical state : liquid
 Color : Clear, Colorless
 Odor : characteristic

Safety data

- Flash point : 79-80°C (174-176°F)
- Lower explosion limit : Not applicable
- Upper explosion limit : Not applicable
- Autoignition temperature : 227°C (441°F)
- Thermal decomposition : No data available
- Molecular formula : UVCB
- Molecular weight : Not applicable
- pH : Not applicable
- Pour point : -21°C (-6°F)
- Freezing point : -39°C (-38°F)
 Method: ASTM D5972
- Boiling point/boiling range : 207-274°C (405-526°F)

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	Method: ASTM D 86
Vapor pressure	: 0.01 PSI at 25°C (77°F) Method: ASTM D5191
Relative density	: 0.810 - 0.850 at 15 °C (59 °F)
Density	: 6.8 - 7.1 L/G
Water solubility	: negligible
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: Medium: Hydrocarbons soluble
Viscosity, kinematic	: 2.12 cSt at 40°C (104°F) Method: ASTM D 445
Relative vapor density	: Not applicable
Evaporation rate	: No data available
Conductivity	: No data available

SECTION 10: Stability and reactivity

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous reactions	
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur. Hazardous reactions: Vapors may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Strong oxidizing agents.
Thermal decomposition	: No data available
Hazardous decomposition products	: Hydrocarbons Carbon oxides

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

SECTION 11: Toxicological information**Orfom® SX-12 (Solvent Extraction Diluent)**

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

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Acute inhalation toxicity : LC50: > 20 mg/l
Species: Rat
Test atmosphere: vapor
Method: Acute toxicity estimate

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Acute dermal toxicity : LD50 Dermal: > 5,000 mg/kg
Species: Rabbit
Method: Acute toxicity estimate

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Skin irritation : Irritating to skin.
May cause skin irritation in susceptible persons.

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

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Sensitization : Did not cause sensitization on laboratory animals.
Information refers to the main ingredient.

Repeated dose toxicity

Distillates (petroleum),
Hydrotreated light : Species: Rat, male
Sex: male
Application Route: inhalation (vapor)
Exposure time: 13 wks
Number of exposures: 6 h/d
NOEL: 10504 mg/m³
Lowest observable effect level: 31652 mg/m³
Method: OECD Guideline 413
Target Organs: Kidney, Liver
Information given is based on data obtained from similar substances.

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Species: Rat, female
 Sex: female
 Application Route: inhalation (vapor)
 Exposure time: 13 wks
 Number of exposures: 24 h/d
 NOEL: 31652 mg/m³
 Method: OECD Guideline 413
 Information given is based on data obtained from similar substances.

Species: Rat, male
 Sex: male
 Application Route: oral gavage
 Dose: 116, 347, 1056 mg/kg
 Exposure time: 13 wks
 Number of exposures: daily
 Lowest observable effect level: 347 mg/kg
 Method: OECD Test Guideline 408
 Target Organs: Kidney
 Information given is based on data obtained from similar substances.

Species: Rat, female
 Sex: female
 Application Route: oral gavage
 Dose: 116, 347, 1056 mg/kg
 Exposure time: 13 wks
 Number of exposures: daily
 NOEL: 1,056 mg/kg
 Method: OECD Test Guideline 408
 Information given is based on data obtained from similar substances.

Species: Rat, male and female
 Sex: male and female
 Application Route: Dermal
 Dose: 165, 330, 495 mg/kg/d
 Exposure time: 13 wks
 Number of exposures: 5 d/wk
 NOEL: > 495 mg/kg
 Method: OECD Test Guideline 411
 Information given is based on data obtained from similar substances.

Genotoxicity in vitro

Distillates (petroleum),
 Hydrotreated light

: Test Type: reverse mutation assay
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

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Test Type: Cytogenetic assay
 Metabolic activation: with and without metabolic activation
 Method: OECD Guideline 473
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

Test Type: Mouse lymphoma assay
 Metabolic activation: with and without metabolic activation
 Method: OECD Guideline 476
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

Genotoxicity in vivo

Distillates (petroleum),
 Hydrotreated light : Test Type: Micronucleus test
 Species: Mouse
 Route of Application: Intraperitoneal injection
 Method: OECD Test Guideline 474
 Result: negative

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Carcinogenicity : Method: Estimated based on individual component values.
 Remarks: Not expected to be carcinogenic based on individual component data.

Reproductive toxicity

Distillates (petroleum),
 Hydrotreated light : Species: Rat
 Sex: male and female
 Application Route: oral gavage
 Dose: 50, 200, 750 mg/kg/d
 Method: OECD Test Guideline 416
 NOAEL Parent: ≥ 750 mg/kg
 NOAEL F1: ≥ 750 mg/kg
 No adverse effects expected
 Information given is based on data obtained from similar substances.

Developmental Toxicity

Distillates (petroleum),
 Hydrotreated light : Species: Rat
 Application Route: oral gavage
 Dose: 0, 400, 800, 1000 mg/kg/bw
 Number of exposures: Daily
 Test period: GD 6 - 15
 Method: OECD Guideline 414
 NOAEL Teratogenicity: $> 1,000$ mg/kg
 NOAEL Maternal: $> 1,000$ mg/kg

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Aspiration toxicity : May be fatal if swallowed and enters airways.

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Further information : Symptoms of overexposure may be headache, dizziness,

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tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may decrease the skin.

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

Distillates (petroleum),
Hydrotreated light : LL50: 10 - 30 mg/l
Exposure time: 96 h
Species: Fish
Method: OECD Test Guideline 203
Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates

Distillates (petroleum),
Hydrotreated light : EL50: 10 - 22 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
static test Method: OECD Test Guideline 202
Information given is based on data obtained from similar substances.

Toxicity to algae

Distillates (petroleum),
Hydrotreated light : EL50: 4.1 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (green algae)
Method: OECD Test Guideline 201
Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Distillates (petroleum),
Hydrotreated light : NOELR: 0.28 mg/l
Exposure time: 21 Days
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Information given is based on data obtained from similar substances.

Biodegradability : Taking into consideration the properties of several ingredients, the product is estimated to be biodegradable according to OECD classification.

Elimination information (persistence and degradability)

Bioaccumulation

Distillates (petroleum),
Hydrotreated light : This material is not expected to bioaccumulate.

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Mobility

Distillates (petroleum),
Hydrotreated light : Medium: Air
Method: Calculation, Mackay Level III Fugacity Model
Content: 96 %

: Medium: Water
Method: Calculation, Mackay Level III Fugacity Model
Content: 1.4 %

: Medium: Soil
Method: Calculation, Mackay Level III Fugacity Model
Content: 0.07 %

: Medium: Sediment
Method: Calculation, Mackay Level III Fugacity Model
Content: 1.3 %

Results of PBT assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information : Toxic to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Toxic to aquatic life.

Long-term (chronic) aquatic hazard : 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

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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)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Testing (ASTM D4206) has shown product does not sustain combustion.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT), 9, III, (79 - 80 °C c.c.), MARINE POLLUTANT, (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT), 9, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT), 9, III, (-)

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

90, UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT), 9, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT), 9, III
TANK VESSELS: ID9003, SUBSTANCES WITH A FLASH-POINT ABOVE 60°C AND NOT MORE THAN 100°C, 9

Other information	:	This product is being carried under the scope of MARPOL Annex I
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Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information**Notification status**

Europe REACH

: This product is in full compliance according to REACH

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	regulation 1907/2006/EC.
Switzerland CH INV	: On the inventory, or in compliance with the inventory
United States of America (USA) TSCA	: On or in compliance with the active portion of the TSCA inventory
Canada DSL	: All components of this product are on the Canadian DSL
Australia AIIC	: 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	: Not in compliance with the inventory
Philippines PICCS	: On the inventory, or in compliance with the inventory
Taiwan TCSI	: 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 : 98120

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%
AIIC	Australian Inventory of Industrial Chemicals	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

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>=	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%	ATE	Acute toxicity estimate