

**DIACEL® ATF-S Antifoam**

Version 1.7

Revision Date 2025-12-03

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

Product Name : DIACEL® ATF-S Antifoam
Material : 1123522, 1097191
Use : Oil Well Cement Component
Oil Well Cement Spacer Fluid Component

Uses advised against :

This material should not be used for purposes other than the identified uses in section 1 without expert advice.

Company : Chevron Phillips Chemical Company LP
Drilling Specialties Company LLC
9500 Lakeside Blvd.
The Woodlands, TX 77381

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)

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Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico “Agostino Gemelli”, Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico “Umberto I” Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera “Antonio Cardarelli” Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera “Papa Giovanni XXIII” Tel. 800 883 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858;

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

Organization that prepared the SDS : 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**

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.

Classification

: Skin irritation, Category 2
 Eye irritation, Category 2A
 Carcinogenicity, Category 2

Labeling

Symbol(s)



Signal Word

: Warning

Hazard Statements

: H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H351: Suspected of causing cancer.

Precautionary Statements

: **Prevention:**

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P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P264 Wash skin thoroughly after handling.
 P280 Wear protective gloves/ eye protection/ face protection.
 P280 Wear protective gloves, protective clothing, eye protection and face protection.
Response:
 P302 + P352 IF ON SKIN: Wash with plenty of water.
 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.
 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.
Storage:
 P405 Store locked up.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity:**IARC**

Group 2B: Possibly carcinogenic to humans

Vinyl Acetate 108-05-4

Crotonaldehyde 4170-30-3

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.

SECTION 3: Composition/information on ingredients

Synonyms : None Established

Molecular formula : Mixture

Component	CAS-No.	Weight %
Synthetic Amorphous Silica	112926-00-8	1 - 90
Polyethylene Glycol	25322-68-3	1 - 90
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	1 - 3
Acetic Acid	64-19-7	0 - 1
Vinyl Acetate	108-05-4	0 - 0.1
Crotonaldehyde	4170-30-3	0 - 0.1

SECTION 4: First aid measures

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.

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- If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
- 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 : Induce vomiting immediately and call a physician. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

Notes to physician

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

- Flash point : >101.1°C (>214.0°F)
Method: closed cup
- Autoignition temperature : No data available
- 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.
- Fire and explosion protection : Normal measures for preventive fire protection.

SECTION 6: Accidental release measures

- Personal precautions : Use personal protective equipment.
- 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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

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SECTION 7: Handling and storage**Handling**

Advice on safe handling : 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. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : 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.

Uses advised against :

This material should not be used for purposes other than the identified uses in section 1 without expert advice.

Use : Oil Well Cement Component
Oil Well Cement Spacer Fluid Component

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

Components	Basis	Value	Control parameters	Note
Synthetic Amorphous Silica	OSHA Z-1-A	TWA	6 mg/m3	
	OSHA Z-3	TWA	20 Million particles per cubic foot	a, Dust
	OSHA Z-3	TWA	20 Million particles per cubic foot	Dust
	OSHA Z-3	TWA	80 mg/m3 / %SiO2	Dust
Polyethylene glycol	US WEEL	TWA	10 mg/m3	Aerosol
Acetic Acid	ACGIH	TWA	10 ppm,	
	ACGIH	STEL	15 ppm,	
	OSHA Z-1	TWA	10 ppm, 25 mg/m3	
	OSHA Z-1-A	TWA	10 ppm, 25 mg/m3	
Vinyl Acetate	ACGIH	TWA	10 ppm,	A3,
	ACGIH	STEL	15 ppm,	A3,
	OSHA Z-1-A	TWA	10 ppm, 30 mg/m3	
	OSHA Z-1-A	STEL	20 ppm, 60 mg/m3	
Crotonaldehyde	ACGIH	C	0.3 ppm,	A3, Skin,
	NIOSH REL	TWA	2 ppm, 6 mg/m3	
	OSHA Z-1	TWA	2 ppm, 6 mg/m3	
	OSHA Z-1-A	TWA	2 ppm, 6 mg/m3	

a Based on impinger samples counted by light-field techniques.
A3 Confirmed animal carcinogen with unknown relevance to humans
Skin Danger of cutaneous absorption

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Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Acetic Acid	64-19-7	Immediately Dangerous to Life or Health Concentration Value 50 parts per million	1995-03-01
Crotonaldehyde	4170-30-3	Immediately Dangerous to Life or Health Concentration Value 50 parts per million	2017-02-03

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: Air-Purifying Respirator for Dusts and Mists. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, 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: Protective suit. Safety shoes.
- 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**

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Form : viscous
Physical state : liquid
Color : White
Odor : slight

Safety data

Flash point : >101.1°C (>214.0°F)
Method: closed cup

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : no

Autoignition temperature : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

pH : No data available

Pour point : No data available

Boiling point/boiling range : >35°C (>95°F)

Vapor pressure : No data available

Relative density : 1
at 25 °C (77 °F)

Water solubility : No data available

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

Viscosity, kinematic : 10000 cSt

Relative vapor density : No data available

Evaporation rate : No data available

SECTION 10: Stability and reactivity

Reactivity : Stable at normal ambient temperature and pressure.

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

Possibility of hazardous reactions

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Hazardous reactions	: Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available.
Other data	: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

DIACEL® ATF-S Antifoam Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
DIACEL® ATF-S Antifoam Acute inhalation toxicity	: No data available
DIACEL® ATF-S Antifoam Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
DIACEL® ATF-S Antifoam Skin irritation	: Skin irritation
DIACEL® ATF-S Antifoam Eye irritation	: Eye irritation
Sensitization Crotonaldehyde	: Classification: Did not cause sensitization on laboratory animals. negative
Genotoxicity in vitro Crotonaldehyde	: Test Type: Ames test Metabolic activation: with and without metabolic activation Result: positive
Acute effects Crotonaldehyde	: Causes respiratory tract irritation. Causes skin irritation. Causes serious eye damage.
CMR effects Vinyl Acetate	: Carcinogenicity: Limited evidence of carcinogenicity in animal studies
Crotonaldehyde	Carcinogenicity: Carcinogenicity classification not possible from current data.

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Mutagenicity: Suspected of causing genetic defects., In vitro tests showed mutagenic effects

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Further information : No data available.

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

- Polyethylene Glycol : LC50: > 10,000 mg/l
Exposure time: 96 h
Species: Cyprinodon variegatus (sheepshead minnow)
semi-static test Method: PARCOM Protocol Part B
- Alcohols, C12-14-secondary, ethoxylated LC50: 3.7 mg/l
Exposure time: 96 h
Species: Lepomis macrochirus (Bluegill sunfish)
static test Information given is based on data obtained from similar substances.
- Crotonaldehyde LC50: 0.65 mg/l
Exposure time: 96 h
Species: Salmo gairdneri (Rainbow trout)

Toxicity to daphnia and other aquatic invertebrates

- Polyethylene Glycol : LC50: > 10,000 mg/l
Exposure time: 48 h
Species: Acartia tonsa (Marine Copepod)
static test Method: ISO 14669 and PARCOM method
- Alcohols, C12-14-secondary, ethoxylated 0.29 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Information given is based on data obtained from similar substances.
- Crotonaldehyde EC50: 2 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
- LC50: 2.7 mg/l
Exposure time: 96 h
Species: Gammarus fasciatus (freshwater shrimp)

Toxicity to algae

- Polyethylene Glycol : ErC50: > 10,000 mg/l
Exposure time: 72 h
Species: Skeletonema costatum (Marine Algae)
Growth inhibition Method: ISO 10253
- Alcohols, C12-14-secondary, ethoxylated 0.05 mg/l
Exposure time: 96 h
Species: algae

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Growth inhibition Information given is based on data obtained from similar substances.

Crotonaldehyde

ErC50: 0.881 mg/l
Exposure time: 96 h
Species: Selenastrum capricornutum (algae)

EC10: 0.385 mg/l
Exposure time: 96 h
Species: Selenastrum capricornutum (algae)

M-Factor

crotonaldehyde

: M-Factor (Acute Aquat. Tox.) 1

M-Factor (Chron. Aquat. Tox.) 1

Toxicity to fish (Chronic toxicity)

Crotonaldehyde

: NOEC: 0.0247 mg/l
Exposure time: 41 d
Species: Oryzias latipes (Orange-red killifish)

Biodegradability

: Taking into consideration the properties of several ingredients, the product is estimated not to be readily biodegradable according to OECD classification.

Elimination information (persistence and degradability)

Bioaccumulation

: No data available

Mobility

: Adsorption to solid soil phase is possible.

Additional ecological information

: Toxic to aquatic life.

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

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

: Toxic to aquatic life.

Long-term (chronic) aquatic hazard

: This material is not expected to be harmful to aquatic organisms.

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.

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- 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.

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)

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

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

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

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

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

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

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

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

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

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

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

Maritime transport in bulk according to IMO instruments

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SECTION 15: Regulatory information

National legislation

SARA 311/312 Hazards : Carcinogenicity
Skin corrosion or irritation
Serious eye damage or eye irritation

CERCLA Reportable Quantity : Listed substances in the product are at low enough levels to not be expected to exceed the RQ

Acetic Acid
Vinyl Acetate
Phosphoric Acid
Crotonaldehyde
Acetaldehyde
Sodium Hydroxide
Oxirane
1,4-dioxane

SARA 302 Reportable Quantity : Listed substances in the product are at low enough levels to not be expected to exceed the RQ

Vinyl Acetate
Crotonaldehyde
Oxirane

SARA 302 Threshold Planning Quantity : This material does not contain any components with a section 302 EHS TPQ.
SARA 304 Reportable Quantity : Listed substances in the product are at low enough levels to not be expected to exceed the RQ
Vinyl Acetate 108-05-4 5000 lbs
Crotonaldehyde 4170-30-3 100 lbs
Oxirane 75-21-8 10 lbs

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:
: Vinyl Acetate - 108-05-4

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).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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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):

- : Polyethylene glycol - 25322-68-3
- Acetic Acid - 64-19-7

US State Regulations

Pennsylvania Right To Know

- : Synthetic Amorphous Silica - 112926-00-8
- Polyethylene glycol - 25322-68-3
- Alcohols, C12-14-secondary, ethoxylated - 84133-50-6
- Acetic Acid - 64-19-7
- Vinyl Acetate - 108-05-4
- Phosphoric Acid - 7664-38-2
- Crotonaldehyde - 4170-30-3
- Acetaldehyde - 75-07-0
- Sodium Hydroxide - 1310-73-2

California Prop. 65 Components

- : WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov/food.

Acetaldehyde	75-07-0
Oxirane	75-21-8
1,4-dioxane	123-91-1

WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Oxirane	75-21-8
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Notification status

- Europe REACH : Not 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
- Japan ISHL : Not in compliance with the inventory

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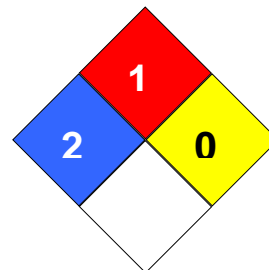
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Korea KECI	:	Not in compliance with the inventory
Philippines PICCS	:	On the inventory, or in compliance with the inventory
China IECSC	:	On the inventory, or in compliance with the inventory
Taiwan TCSI	:	On the inventory, or in compliance with the inventory
Other TECI	:	Not in compliance with the inventory

SECTION 16: Other information

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



Revision Date : 2025-12-03
Date of last issue : 2020-09-02

Further information

Legacy SDS Number : CPC00420

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%
AIRC	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	PRNT	Presumed Not Toxic

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	Values		
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%	ATE	Acute toxicity estimate