

**JCP Decolorizer Bottoms**

Version 1.2

Revision Date 2013-12-13

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

Trade name : JCP Decolorizer Bottoms

Company : Saudi Chevron Phillips Company
10001 Six Pines Drive
The Woodlands, TX 77380

Emergency telephone:**Health:**

866.442.9628 (North America)

1.832.813.4984 (International)

Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887

Asia: +800 CHEMCALL (+800 2436 2255)

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

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

Responsible Department : Product Safety and Toxicology Group

E-mail address : MSDS@CPChem.com

Website : www.CPChem.com

SECTION 2: Hazards identification**Emergency Overview****Danger****Form:** Liquid **Physical state:** Liquid **Color:** Dark BrownOSHA Hazards : Combustible Liquid, Carcinogen, Target Organ Effects,
Moderate skin irritant**GHS Classification**

: Flammable liquids, Category 3
Skin irritation, Category 2
Carcinogenicity, Category 2
Specific target organ systemic toxicity - single exposure,
Category 3, Central nervous system
Specific target organ systemic toxicity - repeated exposure,
Category 1, Eyes, Blood
Aspiration hazard, Category 1
Acute aquatic toxicity, Category 2
Chronic aquatic toxicity, Category 2

GHS-Labeling

Symbol(s) :



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Signal Word : Danger

Hazard Statements : H226: Flammable liquid and vapor.
 H304: May be fatal if swallowed and enters airways.
 H315: Causes skin irritation.
 H336: May cause drowsiness or dizziness.
 H351: Suspected of causing cancer.
 H372: Causes damage to organs (Eyes, Blood) through prolonged or repeated exposure.
 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.
 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/ protective clothing/ 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.
 P308 + P313: IF exposed or concerned: Get medical advice/ attention.
 P321: Specific treatment (see supplemental first aid instructions on this label).
 P331: Do NOT induce vomiting.
 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.
 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.

Carcinogenicity:

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IARC	Group 2B: Possibly carcinogenic to humans Naphthalene 91-20-3
NTP	Reasonably anticipated to be a human carcinogen Naphthalene 91-20-3
ACGIH	Confirmed animal carcinogen with unknown relevance to humans Solvent naphtha (petroleum), 64742-88-7 medium aliph.

SECTION 3: Composition/information on ingredients

Synonyms : Hydrocarbon Mixture
DCBO

Molecular formula : UVCB

Component	CAS-No.	Weight %
Solvent naphtha (petroleum), medium aliph.	64742-88-7	100
Naphthalene	91-20-3	0.1 - 5
Benzene, 1,4-diethyl-	105-05-5	1 - 5
Decane	124-18-5	1 - 5
Nonane	111-84-2	1 - 5
n-Octane	111-65-9	0.5 - 1

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	: 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	: 55 °C (131 °F) Method: ASTM D 93
Suitable extinguishing media	: Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical.

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

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 |

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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
Solvent naphtha (petroleum), medium aliph.	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	(b),
	ACGIH	TWA	200 mg/m3	P, A3, Skin, varies,
	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
Naphthalene	ACGIH	TWA	10 ppm,	A4, Skin,
	ACGIH	STEL	15 ppm,	A4, Skin,
	OSHA Z-1	TWA	10 ppm, 50 mg/m3	(b),
	OSHA Z-1-A	TWA	10 ppm, 50 mg/m3	
	OSHA Z-1-A	STEL	15 ppm, 75 mg/m3	
Nonane	ACGIH	TWA	200 ppm,	
	OSHA Z-1-A	TWA	200 ppm, 1,050 mg/m3	

- (b) The value in mg/m3 is approximate.
 A3 Confirmed animal carcinogen with unknown relevance to humans
 A4 Not classifiable as a human carcinogen
 P Application restricted to conditions in which there are negligible aerosol exposures
 Skin Danger of cutaneous absorption
 varies varies

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Naphthalene	91-20-3	Immediately Dangerous to Life or Health Concentration Value 250 parts per million	1995-03-01

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 : 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

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- 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.

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

- Form : Liquid
- Physical state : Liquid
- Color : Dark Brown

Safety data

- Flash point : 55 °C (131 °F)
Method: ASTM D 93
- Molecular formula : UVCB
- Molecular Weight : Not applicable
- Density : 0.77 - 0.85 g/cm3

SECTION 10: Stability and reactivity

- Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions

- Conditions to avoid : Heat, flames and sparks.
- Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**JCP Decolorizer Bottoms**

- Acute oral toxicity : LD50 Oral: > 5,000 mg/kg

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Species: rat
Method: Acute toxicity estimate

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Acute inhalation toxicity : No data available

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Acute dermal toxicity : LD50 Dermal: > 2,000 mg/kg
Species: rabbit
Method: Acute toxicity estimate

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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 : Contains no substance or substances classified as sensitizing.

Repeated dose toxicity

Decane : Species: rat
Application Route: Inhalation
Dose: 0, 540 ppm
Exposure time: 91 day
Number of exposures: 18 h/d, 7 d/wk
NOEL: 540 ppm

Carcinogenicity

Naphthalene : Species: mouse
Sex: male
Dose: 10, 30 ppm
Exposure time: 105 weeks
Number of exposures: 6 hours/day, 5 days/week
Test substance: yes
Print Date: No information available.
Remarks: No evidence of carcinogenicity

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Species: mouse
 Sex: female
 Dose: 10, 30 ppm
 Exposure time: 105 weeks
 Number of exposures: 6 hours/day, 5 days/week
 Test substance: yes
 Print Date: No information available.
 Remarks: increased incidence of alveolar/bronchiolar adenomas

Species: rat
 Sex: male and female
 Dose: 10, 30, 60 ppm
 Exposure time: 105 weeks
 Number of exposures: 6 hours/day, 5 days/week
 Test substance: yes
 Print Date: No information available.
 Remarks: nose respiratory epithelial adenoma, increased incidence of olfactory neuroblastomas

Decane

Species: mouse
 Dose: 4 mg in cyclohexane
 Exposure time: 60 wks
 Number of exposures: 3 times/wk
 Remarks: no increase incidence of tumors

Developmental Toxicity

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

Aspiration toxicity

Decane

: May be fatal if swallowed and enters airways.

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Further information**

: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

SECTION 12: Ecological information**Toxicity to fish**Solvent naphtha (petroleum),
medium aliph.

: 2 mg/l
 Exposure time: 96 h
 Species: *Oncorhynchus mykiss* (rainbow trout)
 semi-static test Test substance: yes
 Method: OECD Test Guideline 203

Naphthalene

LC50: 3.2 mg/l
 Exposure time: 96 h
 Species: *Pimephales promelas* (fathead minnow)

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Benzene, 1,4-diethyl-	LC50: 1.8 mg/l Exposure time: 96 h Species: <i>Oryzias latipes</i> (Orange-red killifish)
Decane	NOEC: 500 mg/l Exposure time: 96 h Species: <i>Cyprinodon variegatus</i> (sheepshead minnow)

Toxicity to daphnia and other aquatic invertebrates

Solvent naphtha (petroleum), medium aliph. : EL50: 1.4 mg/l
Exposure time: 48 h
Species: *Daphnia magna* (Water flea)
static test Test substance: yes
Method: OECD Test Guideline 202

Naphthalene LC50: 2.16 mg/l
Exposure time: 48 h
Species: *Daphnia magna* (Water flea)

Benzene, 1,4-diethyl- EC50: 6.0 mg/l
Exposure time: 48 h
Species: *Daphnia magna* (Water flea)
Test substance: yes

Decane EC50: 18 mg/l
Exposure time: 48 h
Species: *Daphnia magna* (Water flea)

n-Octane EC50: 0.3 mg/l
Exposure time: 48 h
Species: *Daphnia magna* (Water flea)
Test substance: yes

Toxicity to algae

Solvent naphtha (petroleum), medium aliph. : NOEC:
Exposure time: 72 h
Species: *Raphidocellus subcapitata* (algae)
static test Analytical monitoring: yes
Test substance: yes
Method: OECD Test Guideline 201

Naphthalene EC50: 2.96 mg/l
Exposure time: 48 h
Species: *Selenastrum capricornutum* (algae)

Benzene, 1,4-diethyl- EC50: 29 mg/l
Exposure time: 72 h
Species: *Selenastrum capricornutum* (algae)
Test substance: yes

Decane NOEC: 0.05 mg/l
Exposure time: 72 h
Species: *Selenastrum capricornutum* (algae)

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Benzene, 1,4-diethyl- : NOEC: 0.93 mg/l
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)
 Test substance: yes

Decane : NOEC: 100 mg/l
 Exposure time: 30 d
 Species: Lamellibranchia (mussel)

Bioaccumulation

n-Octane : This material is not expected to bioaccumulate.
 This substance is not considered to be persistent,
 bioaccumulating nor toxic (PBT).
 This substance is not considered to be very persistent nor
 very bioaccumulating (vPvB).

Biodegradability

Solvent naphtha (petroleum), : This material is not expected to be readily biodegradable.
 medium aliph.

Benzene, 1,4-diethyl- : According to the results of tests of biodegradability this
 product is not readily biodegradable.

Decane : This material is expected to be readily biodegradable.

n-Octane : This material is expected to be readily biodegradable.

Results of PBT assessment

n-Octane : This substance is not considered to be persistent,
 bioaccumulating nor toxic (PBT)., This substance is not
 considered to be very persistent nor very bioaccumulating
 (vPvB).

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

SECTION 13: Disposal considerations

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

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

Product : The product should not be allowed to enter drains, water
 courses or the soil. Do not contaminate ponds, waterways or
 ditches with chemical or used container. Send to a licensed
 waste management company.

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Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

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

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

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, RQ (NAPHTHALENE)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, (55 °C), MARINE POLLUTANT, (NAPHTHALENE, 1,4-DIETHYL BENZENE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (NAPHTHALENE, 1,4-DIETHYL BENZENE)

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (NAPHTHALENE, 1,4-DIETHYL BENZENE)

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (NAPHTHALENE, 1,4-DIETHYL BENZENE)

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

SECTION 15: Regulatory information

National legislation

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SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

CERCLA Reportable : 2000 lbs
Quantity
Naphthalene

SARA 302 Reportable : This material does not contain any components with a SARA
Quantity 302 RQ.

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

SARA 304 Reportable : This material does not contain any components with a section
Quantity 304 EHS RQ.

SARA 313 Ingredients : The following components are subject to reporting levels
established by SARA Title III, Section 313:
: Naphthalene - 91-20-3

Clean Air Act

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

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
: Naphthalene - 91-20-3

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental
Release Prevention (40 CFR 68.130, Subpart F):
: n-Pentane - 109-66-0

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or
Final VOC's (40 CFR 60.489):
: n-Pentane - 109-66-0

US State Regulations

Pennsylvania Right To Know
: Naphthalene - 91-20-3
Benzene, 1,4-diethyl- - 105-05-5
Decane - 124-18-5

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Nonane - 111-84-2

New Jersey Right To Know

: Naphthalene - 91-20-3
 Benzene, 1,4-diethyl- - 105-05-5
 Decane - 124-18-5
 Nonane - 111-84-2

**California Prop. 65
Ingredients**

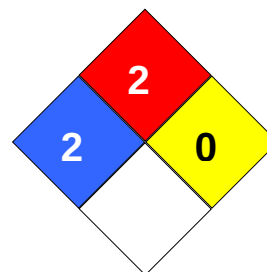
: WARNING! This product contains a chemical known in the
 State of California to cause cancer.

Notification status

Europe REACH : Not in compliance with the inventory
 United States of America TSCA : On TSCA 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 : Not 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: 2
 Fire Hazard: 2
 Reactivity Hazard: 0

**Further information**

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

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

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

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

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency

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	List		
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%		