

Benzene

Version 1.8

Revision Date 2014-06-30

SECTION 1: Identification of the	he substance/mixture and of the company/undertaking
Product information	
Trade name Material	 Benzene 1098293, 1059192, 1059060, 1037212, 1037213, 1037103, 1029170, 1037104, 1015526, 1016960
Company	: Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:	
Asia: +800 CHEMCALL EUROPE: BIG +32.14.5	itional) REC 800.424.9300 or 703.527.3887
Responsible Department E-mail address Website	 Product Safety and Toxicology Group MSDS@CPChem.com www.CPChem.com
SECTION 2: Hazards identification	ation
	e or mixture I in accordance with the hazard communication standard 29 CFR contain all the information as required by the standard.
Danger Physical state: Liquid OSHA Hazards	 Color: Clear, Colorless Odor: sweet, distinct Flammable Liquid, Aspiration hazard, Carcinogen, Moderate skin irritant, Moderate eye irritant, Mutagen, Target Organ Effects
Classification	 Flammable liquids , Category 2 Skin irritation , Category 2 Eye irritation , Category 2A Germ cell mutagenicity , Category 1B
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	Carcinogenicity , Category 1A Specific target organ systemic toxicity - repeated exposure , Category 1 , Blood Aspiration hazard , Category 1
Labeling	
Symbol(s)	
Signal Word	: Danger
Hazard Statements	 H225: Highly flammable liquid and vapor. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H319: Causes serious eye irritation. H340: May cause genetic defects. H350: May cause cancer. H372: Causes damage to organs (Blood) through prolonged or repeated exposure.
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. P280 Wear protective gloves/ eye protection/ face protection. P281 Use personal protective equipment as required. 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. 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 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.
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	P405 Store locked up. Disposal:	a well-ventilated place. Keep cool. nts/ container to an approved waste
Carcinogenicity:		
IARC	Group 1: Carcinogenic to h	umans
	Benzene	71-43-2
NTP	Known to be human carcino	ogen 71-43-2
ACGIH	Benzene Confirmed human carcinoge	
	Benzene	71-43-2
CTION 3: Composition/info	rmation on ingredients : Benzol	
Malagular farmula	Cyclohexatriene Phenyl Hydride Phene	
Molecular formula	: C6H6	
Component	CAS-No.	Weight %
Benzene	71-43-2	100
CTION 4: First aid measure)S	
General advice	sheet to the doctor in atte	rea. Show this material safety data ndance. Material may produce a neumonia if swallowed or vomited.
If inhaled	: If unconscious place in re advice. If symptoms pers	covery position and seek medical ist, call a physician.
In case of skin contact	: If skin irritation persists, ca with water. If on clothes,	all a physician. If on skin, rinse well remove clothes.
In case of eye contact	lenses. Protect unharmed	with plenty of water. Remove contact d eye. Keep eye wide open while ersists, consult a specialist.
If swallowed	an unconscious person. I	ar. Never give anything by mouth to f symptoms persist, call a physician.
n swanoweu	Take victim immediately to	o hospital.
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F) closed cup °F) tant foam. Carbon dioxide (CO2). Dry chemical. water jet. run-off from fire fighting to enter drains or water ntained breathing apparatus for fire fighting if
tant foam. Carbon dioxide (CO2). Dry chemical. water jet. run-off from fire fighting to enter drains or water
water jet. run-off from fire fighting to enter drains or water
run-off from fire fighting to enter drains or water
ntained breathing apparatus for fire fighting if
minated fire extinguishing water separately. This discharged into drains. Fire residues and d fire extinguishing water must be disposed of in with local regulations. For safety reasons in case should be stored separately in closed s. Use a water spray to cool fully closed
on an open flame or any other incandescent ke necessary action to avoid static electricity hich might cause ignition of organic vapors). Use n-proof equipment. Keep away from open flames and sources of ignition.
lable.

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

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ersion 1.8 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. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard,
	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. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard,
Advice on safe handling :	 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. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard,
	bonding and grounding may be necessary, but may not by themselves be sufficient. Review all operations, which have the potential to generating and accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106 "Flammable and Combustible Liquids"; National Fire Protection Association (NFPA 77), "Recommended Practice on Static Electricity"; and/or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising Out of Static, Lightning, and stray Currents". 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. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Advice on protection : against fire and explosion	Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use
	only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
Storage	
Requirements for storage : areas and containers	No smoking. Keep container tightly closed in a dry and well- ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
ECTION 8: Exposure controls/pe	rsonal protection

Ingredients with workplace	ce control par	ameters		
US				
Ingredients	Basis	Value	Control parameters	Note
Benzene	ACGIH	TWA	0.5 ppm,	BEI, A1, Skin,
	ACGIH	STEL	2.5 ppm,	BEI, A1, Skin,
	OSHA Z-1-A	TWA	1 ppm,	
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OSHA Z-1-A	CEIL	5 ppm,	
OSHA Z-2	Peak	50 ppm,	(a),
OSHA 29 CFR 1910.1028(c)	TWA	1 ppm,	
OSHA 29 CFR 1910.1028(c)	STEL	5 ppm,	
OSHA CARC	PEL	1 ppm,	
OSHA CARC	STEL	5 ppm,	

(a) This standard applies to the industry segments exempt from the 1 ppm 8-hour TWA and 5 ppm STEL of the benzene standard at 1910.1028.

A1 Confirmed human carcinogen

BEI Substances for which there is a Biological Exposure Index or Indices (see BEI® section)

Skin Danger of cutaneous absorption

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Benzene	71-43-2	Immediately Dangerous to Life or Health Concentration Value 500 parts per million	1995-03-01

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.
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rmation on basic physi	ical and chemical properties
Appearance	
Physical state Color Odor	: Liquid : Clear, Colorless : sweet, distinct
Safety data	
Flash point Lower explosion limit	: -11 °C (12 °F) Method: Tag closed cup : 1.2 %(V)
Upper explosion limit	: 7.8 %(V)
Oxidizing properties	: no
Autoignition temperature	: 498 °C (928 °F)
Molecular formula	: C6H6
Molecular weight	: 78.12 g/mol
pH	: Not applicable
pour point	: No data available
Boiling point/boiling range	: 80 °C (176 °F)
Vapor pressure	: 75.00 MMHG at 20 °C (68 °F)
Relative density	: 0.88, 25 °C(77 °F)
Water solubility	: 1.88 g/l at 23.5 °C (74.3 °F)
Partition coefficient: n- octanol/water	: log Pow: 2.13
Relative vapor density	: 2.77 (Air = 1.0)
Evaporation rate	: 2.8
Percent volatile	: > 99 %
er information	
Conductivity	: < 50 pSm at 20 °C

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Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
	No decomposition if stored and applied as directed.
Possibility of hazardous re	actions
Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological inf	ormation
Acute oral toxicity	
Benzene	: LD50: > 2,000 mg/kg Species: rat Sex: female
Acute inhalation toxicity	
Benzene	: LC50: 44.5 mg/l
	Exposure time: 4 h Species: rat
	Sex: Not Specified
	Test atmosphere: vapor
Acute dermal toxicity	
Benzene	: LD50: > 8,260 mg/kg Species: rabbit
Benzene	
Skin irritation	: May cause skin irritation in susceptible persons.
Benzene Eye irritation	: May cause irreversible eye damage.
Sensitization	
Benzene	: Did not cause sensitization on laboratory animals.
Repeated dose toxicity	
Benzene	: Species: rat, female Sex: female
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	Application Route: oral gavage Dose: 0, 25, 50, 100 mg/kg Exposure time: 103 wk Number of exposures: 5 d/wk NOEL: < 25 mg/kg Lowest observable effect level: 25 mg/kg Species: rat, male Sex: male Application Route: oral gavage
	Dose: 0, 50, 100, 200 mg/kg Exposure time: 103 wk Number of exposures: 5 d/wk NOEL: < 50 mg/kg Lowest observable effect level: 50 mg/kg
	Species: mouse Application Route: oral gavage Dose: 0, 25, 50,100 mg/kg Exposure time: 103 wk NOEL: < 25 mg/kg
Carcinogenicity	
Benzene	: Species: rat Sex: female Dose: 0, 25, 50, 250 mg/kg Exposure time: 103 wks Number of exposures: daily, 5 days/week Test substance: yes Remarks: zymbal gland carcinomas, squamous cell papillomas
	Species: rat Sex: male Dose: 0, 50, 100, 200 mg/kg Exposure time: 103 wks Number of exposures: daily, 5 days/week Test substance: yes Remarks: zymbal gland carcinomas, squamous cell papillomas
	Species: mouse Sex: male and female Dose: 25, 50, 100 mg/kg Exposure time: 103 wks Number of exposures: daily, 5 days/week Test substance: yes Remarks: Clear evidence of multiple organ carcinogenicity.
Benzene Aspiration toxicity	: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
CMR effects	
Benzene	: Carcinogenicity: Human carcinogen.
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	Mutagenicity: In vivo tests showed mutagenic effects Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: Animal testing did not show any effects on fertility.		
Benzene Further information	Chronic Health Hazard. Solvents may degrease the skin.		
ECTION 12: Ecological informat	lion		
Toxicity to fish			
Benzene	: LC50: 5.3 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) flow-through test Test substance: yes Method: OECD Test Guideline 203		
Toxicity to daphnia and othe	er aquatic invertebrates		
Benzene	: EC50: 10 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Test substance: yes Method: OECD Test Guideline 202		
Toxicity to algae			
Benzene	: ErC50: 100 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Test substance: yes Method: OECD Test Guideline 201		
Elimination information (persist	tence and degradability)		
Biodegradability	: This material is expected to be readily biodegradable.		
Ecotoxicology Assessment			
Acute aquatic toxicity Benzene	: Toxic to aquatic life.		
Chronic aquatic toxicity Benzene	: Harmful to aquatic life with long lasting effects.		
Results of PBT assessment Benzene	: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating		
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	(vPvB).			
Additional ecological	: Toxic to aquatic life.			
information	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life.			
CTION 13: Disposal conside	erations			
The information in this SDS	pertains only to the product as shipped.			
Use material for its intended may meet the criteria of a ha other State and local regulat regulated components may	I purpose or recycle if possible. This material, if it must be discarded, azardous waste as defined by US EPA under RCRA (40 CFR 261) or tions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is aste, federal law requires disposal at a licensed hazardous waste			
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.			
CTION 14: Transport inform	ation			
	shown here are for bulk shipments only, and may not apply to ckages (see regulatory definition).			
Consult the appropriate dom				
Goods Regulations for addit etc.) Therefore, the informa	tion shown here, may not always agree with the bill of lading shipping			
Goods Regulations for addit etc.) Therefore, the informa description for the material. the bill of lading.	ional shipping description requirements (e.g., technical name or name tion shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the MSDS and DEPARTMENT OF TRANSPORTATION)			
Goods Regulations for addit etc.) Therefore, the informa description for the material. the bill of lading. US DOT (UNITED STATES UN1114, BENZENE, 3, I	ional shipping description requirements (e.g., technical name or name tion shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the MSDS and DEPARTMENT OF TRANSPORTATION I, RQ (BENZENE) NAL MARITIME DANGEROUS GOODS)			
Goods Regulations for addit etc.) Therefore, the informa description for the material. the bill of lading. US DOT (UNITED STATES UN1114, BENZENE, 3, I IMO / IMDG (INTERNATION UN1114, BENZENE, 3, I	ional shipping description requirements (e.g., technical name or name tion shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the MSDS and DEPARTMENT OF TRANSPORTATION) I, RQ (BENZENE) NAL MARITIME DANGEROUS GOODS) I, (-11 °C) R TRANSPORT ASSOCIATION)			
Goods Regulations for addit etc.) Therefore, the informa description for the material. the bill of lading. US DOT (UNITED STATES UN1114, BENZENE, 3, I IMO / IMDG (INTERNATION UN1114, BENZENE, 3, I IATA (INTERNATIONAL AI UN1114, BENZENE, 3, I	ional shipping description requirements (e.g., technical name or name tion shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the MSDS and DEPARTMENT OF TRANSPORTATION) I, RQ (BENZENE) NAL MARITIME DANGEROUS GOODS) I, (-11 °C) R TRANSPORT ASSOCIATION) I MAGEROUS GOODS BY ROAD (EUROPE))			
Goods Regulations for addit etc.) Therefore, the informa description for the material. the bill of lading. US DOT (UNITED STATES UN1114, BENZENE, 3, 1 IMO / IMDG (INTERNATION UN1114, BENZENE, 3, 1 IATA (INTERNATIONAL AI UN1114, BENZENE, 3, 1 ADR (AGREEMENT ON DA UN1114, BENZENE, 3, 1	ional shipping description requirements (e.g., technical name or name tion shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the MSDS and DEPARTMENT OF TRANSPORTATION) I, RQ (BENZENE) NAL MARITIME DANGEROUS GOODS) I, (-11 °C) R TRANSPORT ASSOCIATION) I MAGEROUS GOODS BY ROAD (EUROPE)) I, (D/E) CERNING THE INTERNATIONAL TRANSPORT OF			

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ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS) UN1114, BENZENE, 3, II sport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Other information : Benzene and mixtures having 10% Benzene or more, S.T.				
TION 15: Regulatory infor	mation			
National legislation				
CERCLA Reportable	: 10 lbs			
Quantity	Benzene			
SARA 302 Reportable Quantity	: This material does not contain any components with a SARA 302 RQ.			
SARA 302 Threshold Planning Quantity	: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.			
SARA 304 Reportable Quantity	: This material does not contain any components with a section 304 EHS RQ.			
SARA 313 Ingredients	: The following components are subject to reporting levels established by SARA Title III, Section 313:			
	: Benzene - 71-43-2			
Clean Air Act				
Potential Clas	product neither contains, nor was manufactured with a Class I or s II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR Subpt. A, App.A + B).			
The following chemical(s) a	are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 6 ⁻ : Benzene - 71-43-2			
	ain any chemicals listed under the U.S. Clean Air Act Section 112(r) fo tion (40 CFR 68.130, Subpart F).			

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Final VOC's (40 CFR 60.489):	isted under the U.S. Clean Air Act Section 111 SOCMI Intermediate o : Benzene - 71-43-2		
US State Regulations			
Pennsylvania Right To Know	: Benzene - 71-43-2		
New Jersey Right To Know	: Benzene - 71-43-2		
California Prop. 65 Ingredients	: WARNING! This product contains a chemical known in the State of California to cause cancer.		
	WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.		
Notification status Europe REACH United States of America TSC Canada DSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI Philippines PICCS China IECSC	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 		
ECTION 16: Other information			
NFPA Classification	: Health Hazard: 2 Fire Hazard: 3 Reactivity Hazard: 0		
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Further information

Legacy SDS Number : CPC00091

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 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.

k	Key or legend to abbreviations and a	cronyms used	d 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%		

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