SAFETY DATA SHEET



Orfom® MC5 Collector

SDS Number:100000102888

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	n of the substance/mixture and of the company/undertaking
Product information	
Product Name Material	: Orfom® MC5 Collector : 1118934, 1118933, 1118932, 1118921, 1118920, 111888
Use	: Mineral Collector Flotation processing reagent
Company	 Chevron Phillips Chemical Company LP Mining Chemicals 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telepho Health:	16:
Asia: CHEMWAT Mexico CHEMTR South America SC Argentina: +(54)-1	nternational) 424.9300 or 703.527.3887(int'l) CH (+612 9186 1132) China: 0532 8388 9090 EC 01-800-681-9531 (24 hours) S-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.160 159839431
1.832.813.4984 (I Transport : CHEMTREC 800. Asia: CHEMWATC Mexico CHEMTRI South America SC Argentina: +(54)-1 EUROPE: BIG +3 Austria: VIZ +43 1 Belgium: 070 245 Bulgaria: +359 2 9 Croatia: +3851 23 Cyprus: 1401 Czech Republic: 7	nternational) 424.9300 or 703.527.3887(int'l) CH (+612 9186 1132) China: 0532 8388 9090 EC 01-800-681-9531 (24 hours) S-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.160 159839431 2.14.584545 (phone) or +32.14583516 (telefax) 406 43 43 (24 hours/day, 7 days/week) 245 (24 hours/day, 7 days/week) 154 233 48 342 (24 hours/day, 7 days/week) oxicological Information Center +420 224 919 293, +420 224 915 402
1.832.813.4984 (I Transport : CHEMTREC 800. Asia: CHEMWATC Mexico CHEMTRI South America SC Argentina: +(54)-1 EUROPE: BIG +3 Austria: VIZ +43 1 Belgium: 070 245 Bulgaria: +359 2 9 Croatia: +3851 23 Cyprus: 1401 Czech Republic: T Denmark: Danish Estonia: BIG +32. Finland: 0800 147 France: ORFILA r Germany: BIG +32. Greece: (0030) 21	nternational) 424.9300 or 703.527.3887(int'l) CH (+612 9186 1132) China: 0532 8388 9090 EC 01-800-681-9531 (24 hours) PS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.160 159839431 2.14.584545 (phone) or +32.14583516 (telefax) 406 43 43 (24 hours/day, 7 days/week) 245 (24 hours/day, 7 days/week) 154 233 48 342 (24 hours/day, 7 days/week)

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Poisoning and Drug Infor 67042473. (24 hours.) Liechtenstein: BIG +32.14 Lithuania: +370 (85) 2362 Luxembourg: (+352) 8002 Malta: +356 2395 2000 The Netherlands: NVIC: + Norway: 22 59 13 00 (24 Poland: BIG +32.14.5845 Portugal: CIAV phone nu Romania: +40213183606 Slovakia: +421 2 5477 41 Slovenia: Phone number:	2 5500 (24 hours/day, 7 days/week) +31 (0)88 755 8000 hours/day, 7 days/week) 45 (phone) or +32.14583516 (telefax) mber: +351 800 250 250 66 112 cy Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24
Responsible Department E-mail address Website	: SDS@CPChem.com : www.CPChem.com
SECTION 2: Hazards identificat	ion
	ance or mixture ified in accordance with the hazard communication standard 29 CFR els contain all the information as required by the standard. : Skin sensitization, Category 1
Symbol(s)	
Signal Word	: Warning
Hazard Statements	: H317: May cause an allergic skin reaction.
Precautionary Statements	 Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves. Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P363 Wash contaminated clothing before reuse. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

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Carcinogenicity:		
IARC	No ingradiant of this product pro	cont at lovels greater than or
IARC	No ingredient of this product pre equal to 0.1% is identified as pro human carcinogen by IARC.	
NTP	No ingredient of this product pre equal to 0.1% is identified as a l by NTP.	sent at levels greater than or known or anticipated carcinogen
ECTION 3: Composition/info	ormation on ingredients	
Synonyms	: Methyl n-Dodecyl Sulfide	
Molecular formula	: C13H28S	
Component n-Dodecyl Methyl Sulfide	CAS-No. 3698-89-3	Weight % 95 - 99
General advice If inhaled	 Move out of dangerous area. sheet to the doctor in attendar serious, potentially fatal pneur If unconscious, place in recover 	nce. Material may produce a nonia if swallowed or vomited. ery position and seek medical
In case of skin contact	advice. If symptoms persist, c : If on skin, rinse well with wate	all a physician.
		r.
In case of eye contact	: Flush eyes with water as a pre- lenses. Protect unharmed eye rinsing. If eye irritation persist	ecaution. Remove contact e. Keep eye wide open while
	lenses. Protect unharmed eye rinsing. If eye irritation persistKeep respiratory tract clear. N	ecaution. Remove contact e. Keep eye wide open while s, consult a specialist. lever give anything by mouth to nptoms persist, call a physician.
In case of eye contact	 lenses. Protect unharmed eye rinsing. If eye irritation persist Keep respiratory tract clear. N an unconscious person. If syr Take victim immediately to how 	ecaution. Remove contact e. Keep eye wide open while s, consult a specialist. lever give anything by mouth to nptoms persist, call a physician.
In case of eye contact If swallowed	 lenses. Protect unharmed eye rinsing. If eye irritation persist Keep respiratory tract clear. N an unconscious person. If syr Take victim immediately to how 	ecaution. Remove contact e. Keep eye wide open while s, consult a specialist. lever give anything by mouth to nptoms persist, call a physician.
In case of eye contact If swallowed	 lenses. Protect unharmed eye rinsing. If eye irritation persist Keep respiratory tract clear. N an unconscious person. If syr Take victim immediately to hor sures 142°C (288°F) Method: PMCC 	ecaution. Remove contact e. Keep eye wide open while s, consult a specialist. lever give anything by mouth to nptoms persist, call a physician.
In case of eye contact If swallowed ECTION 5: Firefighting meas Flash point	 lenses. Protect unharmed eye rinsing. If eye irritation persist Keep respiratory tract clear. N an unconscious person. If syr Take victim immediately to hor sures 142°C (288°F) Method: PMCC estimated 	ecaution. Remove contact e. Keep eye wide open while s, consult a specialist. lever give anything by mouth to nptoms persist, call a physician.

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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.
TION 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 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.
TION 7: Handling and stora	ge
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. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
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.
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SECTION 8: Exposure controls/personal protection

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Methyl Mercaptan	74-93-1	Immediately Dangerous to Life or Health Concentration Value 150 parts per million	1995-03-01

Biological exposure indices

US

Substance name	CAS-No.	Control parameters	Sampling time	Update
Methyl Mercaptan	74-93-1	Methemoglobin: 1.5 % Hb Nonspecific (In blood) Background () Semi-quantitative () See notice of Intended Changes (NIC) () Adopted values or notations enclosed are those for which changes are proposed in the NIC ()	During or at the end of the shift	2020-02-01

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	: 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 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
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	specific work-place. Wear as appropriate:. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. 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.
CTION 9: Physical and chem	ical properties
Information on basic phys	ical and chemical properties
Appearance	
Form Physical state Color	: liquid : liquid : Colorless to light yellow
Odor	: pungent
Safety data	
Flash point	: 142°C (288°F) Method: PMCC estimated
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: No
Autoignition temperature	: No data available
Molecular formula	: C13H28S
Molecular weight	: 216.47 g/mol
рН	: No data available
Freezing point	: No data available
Boiling point/boiling range	: 294-315°C (561-599°F)
Vapor pressure	: No data available
Relative density	: 0.835 at 20 °C (68 °F)
Water solubility	: insoluble
Viscosity, dynamic	: 3.71 cP
Relative vapor density	: No data available
Evaporation rate	: No data available

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ECTION 10: Stability and react	livity
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 re	actions
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.
ECTION 11: Toxicological info	rmation
Orfom® MC5 Collector Acute oral toxicity	: Acute toxicity estimate: 2,604 mg/kg Method: Calculation method
Orfom® MC5 Collector Skin irritation	: May cause skin irritation and/or dermatitis.
Orfom® MC5 Collector Eye irritation	: Vapors may cause irritation to the eyes, respiratory system and the skin.
Orfom® MC5 Collector Sensitization	: Causes sensitization.
Repeated dose toxicity	
n-Dodecyl Methyl Sulfide	: Species: rat (male) Application Route: oral gavage Dose: 250, 500, 1000 mg/kg/d Exposure time: 35 d Number of exposures: daily NOEL: 1,000 mg/kg Method: OECD Guideline 422 No significant adverse effects were reported
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	Species: rat (female) Application Route: oral gavage Dose: 250, 500, 1000 mg/kg/d Exposure time: 49 d Number of exposures: daily NOEL: 1,000 mg/kg Method: OECD Guideline 422 No significant adverse effects were reported
Reproductive toxicity	
n-Dodecyl Methyl Sulfide	 Species: Rat Sex: male Application Route: oral gavage Dose: 0, 250, 500, 1000 mg/kf/d Exposure time: 35 d Method: OECD Guideline 422 NOAEL Parent: 1,000 mg/kg Fertility and developmental toxicity tests did not reveal any effect on reproduction. Species: Rat Sex: female Application Route: oral gavage Dose: 0, 250, 500, 1000 mg/kf/d Exposure time: 49 d Method: OECD Guideline 422 NOAEL Parent: 1,000 mg/kg NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg Fertility and developmental toxicity tests did not reveal any effect on reproduction.
Aspiration toxicity	
n-Dodecyl Methyl Sulfide	: May be harmful if swallowed and enters airways.
Orfom® MC5 Collector Further information	: Solvents may degrease the skin.
TION 12: Ecological inform	nation
Toxicity to fish	
n-Dodecyl Methyl Sulfide	: LC50: 0.115 mg/l Exposure time: 96 h Species: Fish Method: QSAR modeled data
Toxicity to daphnia and ot	her aquatic invertebrates
n-Dodecyl Methyl Sulfide	 EC50: 24.5 μg/l Exposure time: 48 h Species: Daphnia magna (Water flea) semi-static test Method: OECD Test Guideline 202
M-Factor	
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dodecyl methyl sulphide	: M-Factor (Acute Aquat. Tox.) 1
	M-Factor (Chron. Aquat. Tox.) 1
Biodegradability	
n-Dodecyl Methyl Sulfide	: aerobic Result: Not readily biodegradable. 18 %
	Testing period: 28 d Method: OECD Test Guideline 310
Additional ecological information	: Very toxic to aquatic life with long lasting effects.
Ecotoxicology Assessmen	t
Short-term (acute) aquatic ha n-Dodecyl Methyl Sulfide	
Long-term (chronic) aquatic h n-Dodecyl Methyl Sulfide	
ECTION 13: Disposal consider	rations
	pertains only to the product as shipped.
may meet the criteria of a ha other State and local regulati regulated components may b	purpose or recycle if possible. This material, if it must be discarded, izardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. 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.
Product Contaminated packaging	courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed
	 courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
Contaminated packaging ECTION 14: Transport informa The shipping descriptions	 courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
Contaminated packaging ECTION 14: Transport informa The shipping descriptions shipments in non-bulk pac Consult the appropriate dome Goods Regulations for addition etc.) Therefore, the informat	 courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
Contaminated packaging ECTION 14: Transport informa The shipping descriptions shipments in non-bulk pac Consult the appropriate dome Goods Regulations for additive etc.) Therefore, the informat description for the material.	 courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. ation shown here are for bulk shipments only, and may not apply to ckages (see regulatory definition). estic or international mode-specific and quantity-specific Dangerous onal shipping description requirements (e.g., technical name or names tion shown here, may not always agree with the bill of lading shipping

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rsion 1.7	Revision Date 2023-09-
UN3082, ENVIRONMEN	DEPARTMENT OF TRANSPORTATION) ITALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL II, MARINE POLLUTANT, (N-DODECYL METHYL SULFIDE)
UN3082, ENVIRONMEN	NAL MARITIME DANGEROUS GOODS) ITALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL II, (142 °C c.c.), MARINE POLLUTANT, (N-DODECYL METHYL
	I R TRANSPORT ASSOCIATION) GULATED LIQUID, N.O.S., (N-DODECYL METHYL SULFIDE), 9, III
	ANGEROUS GOODS BY ROAD (EUROPE)) ITALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N- LFIDE), 9, III, (-)
	CERNING THE INTERNATIONAL TRANSPORT OF
DANGEROUS GOODS (EU 90,UN3082,ENVIRONME METHYL SULFIDE), 9, II	NTALLŸ HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL
ADN (EUROPEAN AGREE OF DANGEROUS GOODS	MENT CONCERNING THE INTERNATIONAL CARRIAGE
	ITALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL
UN3082, ENVIRONMEN METHYL SULFIDE), 9, I	TALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL
UN3082, ENVIRONMEN METHYL SULFIDE), 9, I Maritime transport in bulk	TALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL
UN3082, ENVIRONMEN METHYL SULFIDE), 9, I Maritime transport in bulk	TALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL
UN3082, ENVIRONMEN METHYL SULFIDE), 9, I Maritime transport in bulk CTION 15: Regulatory inform National legislation	ITALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL
UN3082, ENVIRONMEN METHYL SULFIDE), 9, I Maritime transport in bulk CTION 15: Regulatory inform National legislation SARA 311/312 Hazards CERCLA Reportable	ITALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL II according to IMO instruments mation : Respiratory or skin sensitization : Calculated RQ exceeds reasonably attainable upper limit. Methyl Mercaptan : Calculated RQ exceeds reasonably attainable upper limit.
UN3082, ENVIRONMEN METHYL SULFIDE), 9, 1 Maritime transport in bulk CTION 15: Regulatory inform National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable	ITALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL a according to IMO instruments mation : Respiratory or skin sensitization : Calculated RQ exceeds reasonably attainable upper limit. Methyl Mercaptan
UN3082, ENVIRONMEN METHYL SULFIDE), 9, 1 Maritime transport in bulk CTION 15: Regulatory inform National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold	ITALLY HAZARDOUS SUBŚTANCE, LIQUID, N.O.S., (N-DODECYL a according to IMO instruments mation : Respiratory or skin sensitization : Calculated RQ exceeds reasonably attainable upper limit. Methyl Mercaptan : Calculated RQ exceeds reasonably attainable upper limit. Methyl Mercaptan : This material does not contain any components with a section

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	Methyl Mercaptan 74-93-1	100 lbs
SARA 313 Components	 This material does not contain ar known CAS numbers that exceed reporting levels established by S 	d the threshold (De Minimis)
Clean Air Act		
Potential Class II	duct neither contains, nor was man ODS as defined by the U.S. Clean ot. A, App.A + B).	
This product does not contain a Act Section 112 (40 CFR 61).	any hazardous air pollutants (HAP)	, as defined by the U.S. Clean A
This product does not contain a Accidental Release Prevention	any chemicals listed under the U.S. (40 CFR 68.130, Subpart F).	Clean Air Act Section 112(r) for
This product does not contain a Intermediate or Final VOC's (4)	any chemicals listed under the U.S. 0 CFR 60.489).	Clean Air Act Section 111 SOC
US State Demulations		
Pennsylvania Right To Know	n-Dodecyl Methyl Sulfide - 3698- sec-dodecyl methyl sulfide (C13) Methyl Mercaptan - 74-93-1	
Pennsylvania Right To Know	sec-dodecyl methyl sulfide (C13)	- y chemicals known to the State
California Prop. 65	 sec-dodecyl methyl sulfide (C13) Methyl Mercaptan - 74-93-1 This product does not contain an of California to cause cancer, bir defects. A substance or substand registered or notified to manufacture of this prod that it does not exceed to 	- y chemicals known to the State th, or any other reproductive ces in this product is not be registered. Importation or luct is still permitted provided he REACH minimum threshold
Pennsylvania Right To Know California Prop. 65 Components	 sec-dodecyl methyl sulfide (C13) Methyl Mercaptan - 74-93-1 This product does not contain an of California to cause cancer, bir defects. A substance or substand registered or notified to manufacture of this prod that it does not exceed t quantity of the non-regu Not in compliance with t On or in compliance with TSCA inventory 	- ces in this product is not be registered. Importation or luct is still permitted provided he REACH minimum threshold lated substances. he inventory in the active portion of the ne or several components listed

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Japan ENCS Philippines P Taiwan TCS Korea KECI	Japan ENCS: Not in compliance with the inventoryPhilippines PICCS: On the inventory, or in compliance with thTaiwan TCSI: On the inventory, or in compliance with th		n compliance with the inventory n compliance with the inventory s product was not registered, ed, or exempted from registration g to K-REACH regulations. acture of this product is still e Korean Importer of Record has ne substance or the exported eed the minimum threshold	
China IECSC	2		ation number: ł compliance wit	KE-12991 h the inventory
ECTION 16: Oth	er information			
				2 0
Further infor	mation			\checkmark
Significant ch previous vers		sion are hig	phlighted in the	margin. This version replaces all
The informati	on in this SDS pertains o	only to the p	product as ship	oped.
information and guidance for a not to be cons specific mate	nd belief at the date of its safe handling, use, proce sidered a warranty or qua	s publicatio essing, stor ality specifi not be vali	n. The informa rage, transporta ication. The inf d for such mate	the best of our knowledge, ation given is designed only as a ation, disposal and release and is ormation relates only to the erial used in combination with any
ACGIH	ey or legend to abbrevia American Conference o		acronyms used	in the safety data sheet Lethal Dose 50%
AIIC	Government Industrial F Australian Inventory of I	Hygienists	LOAEL	Lowest Observed Adverse Effect
DSL	Chemicals Canada, Domestic Sub		NFPA	Level National Fire Protection Agency

		Chemicals		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	PICCS	Philippines Inventory of
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	Chemical Substances		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%	ATE	Acute toxicity estimate