

DRILL-SURE[™] OBM Additive

Version 1.9

Revision Date 2025-01-28

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878				
SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1				
	Product information			
1.2	Product Name Material		DRILL-SURE™ OBM Additive 1114973	
1.2	Relevant identified uses of	the	e substance or mixture and uses advised against	
	Relevant Identified Uses Supported	:	Use in Oil and Gas field drilling and production operations - Industrial	
1.3	Details of the supplier of th	e s	afety data sheet	
	Company	:	Chevron Phillips Chemical Company LP Drilling Specialties Company LLC 10001 Six Pines Drive The Woodlands, TX 77380	
	Local	:	Chevron Phillips Chemicals International N.V. Airport Plaza (Stockholm Building) Leonardo Da Vincilaan 19 1831 Diegem Belgium	
			SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com	
1.4				
	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)			
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	Cyprus: 1401				
	Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402				
	Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212				
	Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 147 111 09 471 977 (24 hours/day)				
	France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)				
	Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)				
	Greece: (0030) 2107793777 (24 hours/day, 7 days/week)				
	Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week)				
	Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: 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 Spein: National Emergency Talaphana Number of Spenish Baison Centre: 124.01.562.04.20 (24				
	Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)				
	Sweden: 112 – ask for Poisons Information				
	Responsible Department : Product Safety and Toxicology Group				
	E-mail address : SDS@CPChem.com				
	Website : www.CPChem.com				
SEC	CTION 2: Hazards identification				
a <i>t</i>					
2.1	Classification of the substance or mixture				
	REGULATION (EC) No 1272/2008				
	Not a hazardous substance or mixture.				
2.2					
	Labeling (REGULATION (EC) No 1272/2008)				
	Not a hazardous substance or mixture.				
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2.3 Other hazards Results of PBT and vPvB assessment	: Non-classified PBT substance, Non-classified vPvB substance This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.				
Endocrine disrupting properties	 The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 				
SECTION 3: Composition/infor	mation on ingredients				
3.1 - 3.2 Substance or Mixture Synonyms	: DRILLING MUD ADDITIVE HTHP Fluid Loss Additive Drill-Sure OBM				
Molecular formula	: UVCB				
Contains no hazardous ingredients according to GHS. :					
Remarks	: Contains no hazardous ingredients according to GHS.				
SECTION 4: First aid measures					
4.1 Description of first-aid me	asures				
General advice	: No hazards which require special first aid measures.				
If inhaled	: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.				
In case of eye contact	: Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.				
If swallowed	: Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.				
4.2 Most important symptoms and effects, both acute and delayed4.3 Indication of any immediate medical attention and special treatment needed					
SECTION 5: Firefighting measu	ires				
Flash point	: Not applicable				
Autoignition temperature	: No data available				
5.1					
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	Extinguishing media				
	Unsuitable extinguishing media	:	High volume water jet.		
5.2	Special hazards arising fro Specific hazards during fire fighting	mt :			
5.3	Advice for firefighters Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.		
	Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
	Fire and explosion protection	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Provide appropriate exhaust ventilation at places where dust is formed.		
SEC	CTION 6: Accidental release	me	asures		
6.1	Personal precautions, prote	ecti	ve equipment and emergency procedures		
	Personal precautions	:	Avoid dust formation.		
6.2	Environmental precautions				
	Environmental precautions	•			
	Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities.		
6.3	Environmental precautions	:	respective authorities.		
6.3	-	:	respective authorities.		
	Environmental precautions Methods and materials for	:	respective authorities. Itainment and cleaning up Pick up and arrange disposal without creating dust. Clean up promptly by sweeping or vacuum. Keep in suitable, closed		
6.3	Environmental precautions Methods and materials for Methods for cleaning up	: cor :	 respective authorities. tainment and cleaning up Pick up and arrange disposal without creating dust. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with 		

SECTION 7: Handling and storage

7.1

Precautions for safe handling

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SAFETY DATA SHEET DRILL-SURE[™] OBM Additive Version 1.9 Revision Date 2025-01-28 Handling Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. 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. Advice on protection : Avoid generating dust; fine dust dispersed in air in sufficient against fire and explosion concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Provide appropriate exhaust ventilation at places where dust is formed. 7.2 Conditions for safe storage, including any incompatibilities Storage : Electrical installations / working materials must comply with the Requirements for storage areas and containers technological safety standards. **SECTION 8: Exposure controls/personal protection** 8.1 **Control parameters** DNEL : End Use: Workers Routes of exposure: Skin contact Potential health effects: Chronic effects, Systemic effects Value: 14,3 mg/kg DNEL : End Use: Workers Routes of exposure: Inhalation Potential health effects: Chronic effects, Systemic effects Value: 25,2 mg/m3 PNEC Marine water : Value: 0,12 mg/l PNEC Marine sediment : Value: 0,097 mg/kg 8.2 **Exposure controls 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. SDS Number:100000101560 5/20

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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 / P100. 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. Safety glasses.
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.
For additional details, see t	he Ex	posure Scenario in the Annex portion
CTION Or Developed and above	mical	properties
CTION 9: Physical and che		
Information on basic phy		and chemical properties
Information on basic phy Appearance		
Information on basic phy Appearance Form		Fine Powder
Information on basic phy Appearance		
Information on basic phy Appearance Form Physical state Color Odor	rsical : : :	Fine Powder solid Dark Brown, Black no odor
Information on basic phy Appearance Form Physical state Color	rsical : : :	Fine Powder solid Dark Brown, Black
Information on basic phy Appearance Form Physical state Color Odor	rsical : : :	Fine Powder solid Dark Brown, Black no odor
Information on basic phy Appearance Form Physical state Color Odor Odor Odor Threshold	rsical : : :	Fine Powder solid Dark Brown, Black no odor
Information on basic phy Appearance Form Physical state Color Odor Odor Odor Threshold Safety data	rsical : : : : :	Fine Powder solid Dark Brown, Black no odor No data available

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Autoignition temperature	: No data available
Thermal decomposition	: No data available
Molecular formula	: UVCB
рН	: Not applicable
Melting point/ range	: No data available
Boiling point/boiling range	: Not applicable
Vapor pressure	: Not applicable
Relative density	: 1,4 - 1,6
Density	: No data available
Water solubility	: partly soluble
Partition coefficient: n- octanol/water	: No data available
Relative vapor density	: Not applicable
Evaporation rate	: No data available
SECTION 10: Stability and react	livity
10.1	
Reactivity	: Stable at normal ambient temperature and pressure.
10.2	
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.3	
Possibility of hazardous re	actions
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.
10.4 Conditions to avoid	: No data available.
10.5 Materials to avoid	: No data available.
Thermal decomposition	: No data available

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10.6

Other data

: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1

Information on toxicological effects

LD50: > 5.000 mg/kg
Species: Rat
Sex: male and female

DRILL-SURE™ OBM Additive Acute inhalation to

BM Additive	
toxicity :	LC50: > 5,3 mg/l
	Exposure time: 4 h
	Species: Rat
	Sex: male and female
	Test atmosphere: dust/mist
	Method: OECD Test Guideline 403
	Rats exposed to a 5.3 mg/L dust aerosol for 4-hr resulted in
	effects generally expected with high concentrations of dust
	aerosols made of relatively dense particles. Higher lung
	weight and atelectasis persisted after the 14-day recovery
	period. There were no reports of lethality or any significant
	clinical observations. There was however an acute
	inflammatory response with evidence of recovery after 14-
	days. The presence of particulate matter with indication of
	partial clearance from the lung after the 14-day recovery
	period was noted. These effects would not be expected
	during normal operating conditions when using this substance.

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Acute dermal toxicity	:	No data available

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Skin irritation	obiii / ddiii/o	:	No skin irritation
DRILL-SURE™ Eye irritation	•=	:	No eye irritation

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Sensitization : Did not cause sensitization on laboratory animals.

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DRILL-SURE[™] OBM Additive **Repeated dose toxicity** : Species: Rat, male and female Sex: male and female Application Route: oral gavage

, application reduce	. orar gavago
Dose: 0, 250, 500), 1000 mg/kg
Exposure time: 43	3 - 54 d
Number of exposition	ures: daily

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	NOEL: 1.000 mg/kg Method: OECD Guideline 422 No adverse effects expected
	Species: Rat, male and female Sex: male and female Application Route: oral gavage Dose: 0, 100, 300, 1000 mg/kg Exposure time: 90 d Number of exposures: daily Method: OECD Test Guideline 408 No adverse effects expected
DRILL-SURE™ OBM Additive Genotoxicity in vitro ∷	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
	Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 476 Result: negative
DRILL-SURE™ OBM Additive Reproductive toxicity :	Species: Rat Sex: male and female Application Route: oral gavage Dose: 0, 250, 500, 1000 mg/kg Exposure time: 43-54 d Number of exposures: daily Method: OECD Guideline 422 NOAEL Parent: 1.000 mg/kg NOAEL F1: 1.000 mg/kg No adverse effects expected
DRILL-SURE™ OBM Additive Developmental Toxicity :	Species: Rat Application Route: oral gavage Dose: 0, 250, 500, 1000 mg/kg Number of exposures: daily Test period: 54 d NOAEL Teratogenicity: 1.000 mg/kg NOAEL Maternal: 1.000 mg/kg No adverse effects expected
	Species: Rat Application Route: oral gavage Dose: 0, 100, 300, 1000 mg/kg Number of exposures: daily Test period: GD 6 - 20 Method: OECD Guideline 414
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	NOAEL Teratogenicity: 1.000 mg/kg NOAEL Maternal: 1.000 mg/kg No adverse effects expected	
Toxicology Assessment		
DRILL-SURE™ OBM Additive CMR effects :	Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: Animal testing did not show any effects on fertility.	
1.2 Information on other hazards		
DRILL-SURE™ OBM Additive Further information:Endocrine disrupting properties:	 Product dust may be irritating to eyes, skin and respiratory system. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 	
ECTION 12: Ecological informatio	n	
Toxicity		
Ecotoxicity effects Toxicity to fish :	LC50: > 240 mg/l	
	Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203	
	Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder)	
Toxicity to daphnia and : other aquatic invertebrates	Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203 LC50: 380 mg/l Exposure time: 48 h Species: Acartia tonsa (Marine Copepod)	
Toxicity to daphnia and : other aquatic invertebrates	Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203 LC50: 380 mg/l Exposure time: 48 h Species: Acartia tonsa (Marine Copepod) static test Method: ISO TC147/SC5/WG2 EbC50: 240 mg/l Exposure time: 72 h Species: Skeletonema costatum (Marine Algae)	

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	static test Method: ISO 10253
12.2	
Persistence and degradability	у
Biodegradability	: Result: Not readily biodegradable. 3 %
	Testing period: 28 d Method: Closed Bottle test
12.3 Bioaccumulative potential Elimination information (persiste	ence and degradability)
Bioaccumulation	: The product may be accumulated in organisms.
12.4 Mobility in soil	
Mobility	: No data available
12.5 Results of PBT and vPvB ass Results of PBT assessment	essment : Non-classified PBT substance, Non-classified vPvB substance
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting propert	ies
Endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects	
Additional ecological information	: This material is not expected to be harmful to aquatic organisms.
12.8 Additional Information	
Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
Long-term (chronic) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
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SECTION 13: Disposal considerations

13.1

Waste treatment methods

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

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

Product	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used containe Send to a licensed waste management company.	۶r.
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.	

For additional details, see the Exposure Scenario in the Annex portion

SECTION 14: Transport information

14.1 - 14.7

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

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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 accordir	ng to IMO instruments		
SECTION 15: Regulatory information			
15.1 Safety, health and environmental re National legislation	egulations/legislation specific for the substance or mixture		
	8 of 18 June 2020 amending Regulation (EC) No 1907/2006 of council on the Registration, Evaluation, Authorisation and		
Water hazard class : WG (Germany)	GK 1 slightly hazardous to water		
15.2 Chemical Safety Assessment			
Components : Asphalt, sulfonated salt	269-212-0 I, sodium		
	U_SEVES3 Update: tapplicable		
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AIIC New Zealand NZIOC Japan ENCS Korea KECI Philippines PICCS Taiwan TCSI China IECSC	 This product is in full compliance according to REACH regulation 1907/2006/EC. On the inventory, or in compliance with the inventory All substances listed as active on the TSCA inventory All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Not in compliance with the inventory 		
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SECTION 16: Other information

SECTION 16: Other informat	ion	
NFPA Classification	: Health Hazard: 1 Fire Hazard: 2 Reactivity Hazard: 0	
Further information		
	the least complete and bightighting in the manual	. This consists and see all

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.

ACGIH	American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AIIC	Australian Inventory of Industrial	LOAEL	Lowest Observed Adverse Effe
	Chemicals		Level
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agence
	List		
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupation
	Substances List		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 Concentra
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health
	Scenario Tool		Administration
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit
	Chemicals Association		
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of
	Chemical Substances		Commercial Chemical Substar
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic
	Values		
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov
			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	TLV	Threshold Limit Value
	on Cancer		
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
	Substances in China		
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
	New Chemical Substances		
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composi
	Inventory		Complex Reaction Products, a

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			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate

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Annex: Exposure Scenarios

Table of Contents

Number	Title
ES 1	Use in Oil and Gas field drilling and production operations - Industrial; Industrial uses (SU3).
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ES 1: Use in Oil and Gas field d uses (SU3).	rilling and production operations - Industrial; Industrial
1.1. Title section	
Exposure Scenario name	: Use in Oil and Gas field drilling and production operations - Industrial
Structured Short Title	: Use in Oil and Gas field drilling and production operations - Industrial; Industrial uses (SU3).
Environment	
CS 1 Use in Oil and Gas field	drilling and production operations - Industrial ERC4
Worker	
CS 2 Chemical production wh	nere opportunity for exposure arises PROC4
1.2. Conditions of use affecting 1.2.1. Control of environmental exp inclusion into or onto article) (ERC	oosure: Use of non-reactive processing aid at industrial site (no
Product (article) characteristics	
Physical form of product	: Solid, low dustiness
Amount used (or contained in artic	cles), frequency and duration of use/exposure
Release type	: Continuous release
Technical and organisational cond	ditions and measures
Not applicable	
Conditions and measures related	to treatment of waste (including article waste)
Waste treatment	: Drilling muds are recycled and reused
1.2.2. Control of worker exposure: (PROC4)	Chemical production where opportunity for exposure arises
Product (article) characteristics	
Physical form of product	: Solid, low dustiness
Amount used (or contained in artic	cles), frequency and duration of use/exposure
Use frequency	: 3 hours/day
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Technical and organisational conditions and measures

Provide adequate ventilation.

Bags of dry powder should be emptied into hopper and pulled down by Venturi effect to minimize dust in the air.

Hoppers should be regularly washed down with water to rinse any residual product. Empty bags into hopper when facing downwind.

Conditions and measures related to personal protection, hygiene and health evaluation

Respirator with a dust filter

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Other conditions affecting workers exposure

Indoor or outdoor use	: Covers indoor and outdoor use.
Temperature	: Assumes use at not more than 20°C above ambient temperature.

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Sea water	0,0005 mg/l (EGEST)	0,004
Sea sediment	31,4 mg/kg wet weight (EGEST)	0,598

1.3.2. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	Long-term	6,86 mg/kg/d (ECETOC TRA worker v3)	0,480
inhalative	systemic	Long-term	0,420 mg/m ³ (ECETOC TRA worker v3)	0,017
combined routes	systemic			0,497

1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

When the recommended risk management measures (RMMs) and operational conditions (OCs) are observed, exposures are not expected to exceed the predicted PNECs and the resulting risk characterization ratios are expected to be less than 1.

When the recommended risk management measures (RMMs) and operational conditions (OCs) are observed, exposures are not expected to exceed the predicted DNELs and the resulting risk characterisation ratios are expected to be less than 1

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Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Available hazard data do not enable the derivation of a DNEL for carcinogenic and dermal irritant effects.