SAFETY DATA SHEET



Sulfolane W

Version 4.0

Revision Date 2024-03-20

according to GB/T 16483 and GB/T 17519

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

Product Name Material	 Sulfolane W 1126373, 1120162, 1099779, 1100043, 1024627, 1024628, 1024629, 1024630, 1024631, 1024632, 1024633
Use	: Solvent
Company	 Chevron Phillips Chemical Company LP Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380
Local	 Chevron Phillips Chemicals (Shanghai) Corporation Room 1810-1812, Shanghai Mart, 2299 Yan An Road (W), Shanghai, PRC 200336 Tel: (86-21) 22157200
Emergency telephor Health:	ne:
866.442.9628 (No 1.832.813.4984 (II	
Transport:	, 424.9300 or 703.527.3887(int'l)
Asia: CHEMWAT	CH (+612 9186 1132) China: 0532 8388 9090
South America SC	EC 01-800-681-9531 (24 hours) OS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-1 EUROPE: BIG +3	1159839431 32.14.584545 (phone) or +32.14583516 (telefax)
Austria: VIZ +43 1	1 406 43 43 (24 hours/day, 7 days/week) 245 (24 hours/day, 7 days/week)
Bulgaria: +359 2 9	
Bulgaria: +359 2 9	9154 233 348 342 (24 hours/day, 7 days/week)
Bulgaria: +359 2 9 Croatia: +3851 23 Cyprus: 1401 Czech Republic: T Denmark: Danish Estonia: BIG +32.	

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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 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 **SECTION 2: Hazards identification** Classification of the substance or mixture GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2011) **Emergency Overview** Danger Form: liquid Physical state: liquid Color: clear Odor: Slight ammonium like : Harmful if swallowed. May damage fertility or the unborn child. Hazards May cause damage to organs through prolonged or repeated exposure. Classification Acute toxicity, Category 4, Oral Reproductive toxicity, Category 1B Specific target organ toxicity - repeated exposure, Category 2, SDS Number:100000013352 2/15

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l	Immune	system	
Labeling			
Symbol(s)			
Signal Word	: Danger	\mathbf{v}	
Hazard Statements	H360: M H373: M	armful if swallowed. lay damage fertility or the un lay cause damage to organs ed or repeated exposure.	nborn child. s (Immune system) through
Precautionary Statements	P202: read and P260: P264: P270: P280: protection Respon P301 + F OENTEF P308 + F attention Storage P405: Disposa P501: disposal	Obtain special instructions I Do not handle until all safet d understood. Do not breathe dust/ fume/ Wash skin thoroughly after Do not eat, drink or smoke Wear protective gloves/ pro on/ face protection. se: P312 + P330: IF SWALLO R/ doctor if you feel unwell. P313: IF exposed or conc n. :: Store locked up. al: Dispose of contents/ contain plant.	y precautions have been gas/ mist/ vapors/ spray. handling. when using this product. tective clothing/ eye DWED: Call a POISON Rinse mouth. erned: Get medical advice/
Synonyms	: tetramethy Sulfolane Sulfolane	ylene Sulfone W	
Molecular formula	: C4H8SO2		
		CAS-No. / EINECS-No.	Concentration
Chemical name		126-33-0	[wt%] 96.5 - 100
Chemical name Sulfolane			0010 100
	\$		

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		sheet to the doctor in attendance.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Induce vomiting immediately and call a physician. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Notes to physician		
Symptoms	:	No data available.
Risks	:	No data available.
Treatment	:	No data available.
SECTION 5: Firefighting measu	ires	
Flash point	:	166°C (331°F) Method: Cleveland Open Cup
Autoignition temperature	:	No data available
Unsuitable extinguishing media	:	High volume water jet.
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	:	Normal measures for preventive fire protection.
Hazardous decomposition products	:	Carbon oxides. Sulfur oxides.
SECTION 6: Accidental release	me	asures
Personal precautions	:	Use personal protective equipment.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed
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containers for disposal.

		containers				
CTION 7: Handling and stor	age					
Handling						
Advice on safe handling	:	section 8. in the app	Smoking, ea	dust. For persona ating and drinking s Dispose of rinse v regulations.	should b	prohibited
Advice on protection against fire and explosion	:	Normal m	easures for p	reventive fire prote	ection.	
Storage						
Requirements for storage areas and containers	:	Observe la	abel precauti	closed in a dry and ons. Electrical inst with the technolog	allation	s / working
Use	:	Solvent				
CTION 8: Exposure controls	s/per	sonal prot	ection			
Ingredients with workplac			neters Value	Control param	eters	Note
evron Phillips Chemical Company	LP Bas			Control param 0.37 ppm,	eters	Note
evron Phillips Chemical Company omponents ulfolane	LP Bas Manu	is ufacturer	Value TWA	0.37 ppm,		
evron Phillips Chemical Company l omponents ulfolane	LP Bas	is ufacturer	Value			Note Note
evron Phillips Chemical Company i omponents ulfolane omponents	LP Bas Manu Bas trol a urds o nces ent. of this hould	is ufacturer is irborned co of this mater in the work If engineeri s material, t I read and u	Value TWA Value Ncentrations ial (see Sect place when on g controls on he personal inderstand al	0.37 ppm, Control param below the exposur ion 2), applicable e designing engineer r work practices ar protective equipme I instructions and li	e guide exposur- ing con e not ac ent listed mitation	Note Note e limits, job trols and selectin dequate to preve d below is ns supplied with
evron Phillips Chemical Company I omponents ulfolane components capplicable Engineering measures Adequate ventilation to cont Consider the potential haza activities, and other substar personal protective equipme exposure to harmful levels of recommended. The user sh	LP Bas Man Bas trol a urds o nces ent. of this hould tion is	is ufacturer is irborned co of this mater in the work If engineerin s material, t I read and u s usually pre	Value TWA Value Ncentrations ial (see Sect place when on g controls on he personal inderstand al	0.37 ppm, Control param below the exposur ion 2), applicable e designing engineer r work practices ar protective equipme I instructions and li	e guide exposur- ing con e not ac ent listed mitation	Note Note e limits, job trols and selectin dequate to preve d below is ns supplied with

Hand protection	:	The suitability for a specific workplace should be discussed
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		with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	:	Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Protective suit. Safety shoes.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
CTION 9: Physical and chem	nical	properties
Information on basic phys	ical	and chemical properties
Appearance		
Form Physical state Color Odor	:	liquid liquid clear Slight ammonium like
Safety data		
Flash point	:	166°C (331°F) Method: Cleveland Open Cup
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Oxidizing properties	:	No
Autoignition temperature	:	No data available
Molecular formula	:	C4H8SO2
Molecular weight	:	120.18 g/mol
рН	:	Not applicable
Freezing point	:	5.5-10°C (41.9-50°F)
Pour point		No data available
Boiling point/boiling range	:	100-286°C (212-547°F)
Vapor pressure	:	No data available
Relative density	:	1.26 at 30 °C (86 °F)
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Water solubility	: partly soluble
Partition coefficient: n-	: No data available
octanol/water Viscosity, kinematic	: No data available
Relative vapor density	: 1 (Air = 1.0)
Evaporation rate	: 1
Percent volatile	: > 99 %
Conductivity	: No data available
CTION 10: Stability and reacti	vity
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 rea	ictions
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.
	Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as
Hazardous decomposition products	chlorates, nitrates, peroxides, etc.Carbon oxidesSulfur oxides
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological infor	mation
• • • • •	
Acute oral toxicity Sulfolane	: LD50: 2,068 mg/kg
Guildiane	Species: Rat Sex: male and female Method: OECD Test Guideline 401
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Acute inhalation toxicity	
Sulfolane	: LC50: > 12000 mg/m3Exposure time: 4 h Species: Rat Sex: male and female Test atmosphere: vapor An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Acute dermal toxicity	
Sulfolane	: LD50: > 2,000 mg/kg Species: Rat Method: Directive 67/548/EEC, Annex V, B.3.
Skin irritation	
Sulfolane	: No skin irritation
Eye irritation Sulfolane	: No eye irritation
Sensitization	
Sulfolane	: Did not cause sensitization on laboratory animals.
Repeated dose toxicity	
Sulfolane	: Species: Rat, male Sex: male Application Route: oral gavage Dose: 60, 200, 700 mg/kg bw/day Exposure time: 28 d Number of exposures: daily NOEL: 60 mg/kg Target Organs: Kidney
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	Species: Rat, female
	Sex: female Application Route: oral gavage Dose: 60, 200, 700 mg/kg bw/day Exposure time: 28 d Number of exposures: Daily NOEL: 200 mg/kg Lowest observable effect level: 700 mg/kg
	Species: Rat Application Route: Inhalation Dose: 2.8, 4.0, 20 mg/m3 Exposure time: 90-110 days Number of exposures: 23 hrs/d, 7d/wk NOEL: 20 mg/m3
	Species: Guinea pig Application Route: Inhalation Dose: 4.0, 20, 159, 200 mg/m3 Exposure time: 90-110 days Number of exposures: 23 hrs/d, 7 d/wk NOEL: 159 mg/m3 Target Organs: Lungs, Blood, Liver
	Species: Rat, male Sex: male Application Route: oral (drinking water) Dose: 2.1, 8.8, 35, 131.7 mg/kg/d Exposure time: 13 wk Number of exposures: Daily NOEL: 8.8 mg/kg Method: OECD Test Guideline 408 Target Organs: Kidney
	Species: Rat, female Sex: female Application Route: oral (drinking water) Dose: 2.9, 10.6, 42, 191.1 mg/kg/d Exposure time: 13 wk Number of exposures: Daily NOEL: 2.9 mg/kg Method: OECD Test Guideline 408 Target Organs: Immune system
	Species: Rat, male and female Sex: male and female Application Route: oral gavage Dose: 80, 200, 500 mg/kg Exposure time: 100 d Number of exposures: Daily NOEL: 200 mg/kg Method: OECD Test Guideline 443 Target Organs: Immune system
Genotoxicity in vitro	
Sulfolane :	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471
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	Result: negative
	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
	Test Type: Sister Chromatid Exchange Assay Metabolic activation: with and without metabolic activation 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 Test Guideline 490 Result: negative
Reproductive toxicity	
Sulfolane	 Species: Rat Sex: female Application Route: oral gavage Dose: 60, 200, 700 mg/kg Number of exposures: Daily Test period: 2 wk premating to lactation D4 Method: OECD Guideline 421 NOAEL Parent: 200 mg/kg bw/day NOAEL F1: 60 mg/kg bw/day Decrease birth index and number of pups
	Species: Rat Sex: male Application Route: oral gavage Dose: 80, 200, 500 mg/kg/d Number of exposures: Daily Method: OECD Test Guideline 443 NOAEL Parent: 200 mg/kg/d NOAEL F1: 200 mg/kg/d reduced fertility in male
	Species: Rat Sex: female Application Route: oral gavage Dose: 80, 200, 500 mg/kg/d Number of exposures: Daily Method: OECD Test Guideline 443 NOAEL Parent: 200 mg/kg/d NOAEL F1: 200 mg/kg/d Decrease birth index and number of pups
Developmental Toxicity	
Sulfolane	: Species: Rat Application Route: oral gavage Dose: 60, 200, 700 mg/kg
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	Number of exposures: Daily Test period: 2 wk premating to lactation D4 NOAEL Teratogenicity: 60 mg/kg bw/day NOAEL Maternal: 200 mg/kg bw/day
	Species: Rat Application Route: oral gavage Dose: 100, 200, 500 mg/kg/day Number of exposures: Daily Test period: GD 1 - 19 Method: OECD Guideline 414 NOAEL Teratogenicity: 200 mg/kg NOAEL Maternal: 100 mg/kg May damage the unborn child.
Sulfolane W Aspiration toxicity	: No aspiration toxicity classification.
Acute effects	
Sulfolane	: Harmful if swallowed.
CMR effects	
Sulfolane	 Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Reproductive toxicity: Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments
Sulfolane W Further information	: No data available.
CTION 12: Ecological inform	mation
Toxicity to fish	
Sulfolane	: LC50: > 100 mg/l Exposure time: 96 h Species: Oryzias latipes (Orange-red killifish) static test Method: OECD Test Guideline 203
Toxicity to daphnia and o	other aquatic invertebrates
Sulfolane	: EC50: 852 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202
Toxicity to algae	
Sulfolane	: EC50: 500 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae)
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	Method: OECD Test Guideline 201
	NOEC: 171 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Method: OECD Test Guideline 201
Biodegradability	
Sulfolane	 Result: Not readily biodegradable. 10.1 % Testing period: 14 d Method: OECD Test Guideline 301C
Bioaccumulation	
Sulfolane	 Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): < 1.3 This material is not expected to bioaccumulate.
Mobility	
Sulfolane	: Groundwater contamination is possible.
Results of PBT assessment Sulfolane	: Non-classified vPvB substance, Non-classified PBT substance
Additional ecological information	: This material is not expected to be harmful to aquatic organisms.
Ecotoxicology Assessment	
Short-term (acute) aquatic ha Sulfolane	zard : This material is not expected to be harmful to aquatic organisms.
Long-term (chronic) aquatic h Sulfolane	azard : This material is not expected to be harmful to aquatic organisms.
ECTION 13: Disposal consider	ations
The information in this SDS p	ertains only to the product as shipped.
may meet the criteria of a haz other State and local regulation regulated components may be	burpose or recycle if possible. This material, if it must be discarded, cardous waste as defined by US EPA under RCRA (40 CFR 261) or ons. Measurement of certain physical properties and analysis for e necessary to make a correct determination. If this material is ste, federal law requires disposal at a licensed hazardous waste
Product	: Do not dispose of waste into sewer. Do not contaminate
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	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.
CTION 14: Transport information	ion
	hown here are for bulk shipments only, and may not apply to ages (see regulatory definition).
Goods Regulations for addition etc.) Therefore, the information	stic or international mode-specific and quantity-specific Dangerous nal shipping description requirements (e.g., technical name or names on shown here, may not always agree with the bill of lading shipping lashpoints for the material may vary slightly between the SDS and the
	EPARTMENT OF TRANSPORTATION) IAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.
	AL MARITIME DANGEROUS GOODS) IAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.
	TRANSPORT ASSOCIATION) IAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.
	GEROUS GOODS BY ROAD (EUROPE)) IAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.
DANGEROUS GOODS (EUR	
NOT REGULATED AS A H TRANSPORTATION BY TI	IAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.
ADN (EUROPEAN AGREEMI OF DANGEROUS GOODS B	ENT CONCERNING THE INTERNATIONAL CARRIAGE Y INLAND WATERWAYS)
NOT REGULATED AS A H TRANSPORTATION BY TH	IAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.
Maritime transport in bulk a	ccording to IMO instruments
CTION 15: Regulatory informa	tion
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Notification statu	S			
Europe REACH				I compliance according to REACH
Switzerland CH IN	J\/		ion 1907/200	in compliance with the inventory
United States of A				with the active portion of the
TSCA		TSCA	inventory	·
Canada DSL			nponents of th	is product are on the Canadian
Australia AIIC		· On the	inventory or	in compliance with the inventory
New Zealand NZI	оС			ith the inventory
Japan ENCS		: On the	inventory, or	in compliance with the inventory
Korea KECI				s product was not registered,
				red, or exempted from registration ng to K-REACH regulations.
				facture of this product is still
		, permit	ed provided t	he Korean Importer of Record has
				the substance or the exported
				ceed the minimum threshold egistered substance(s).
		quanti	y of the non-i	
Philippines PICCS	6	: On the	inventory, or	in compliance with the inventory
Taiwan TCSI				in compliance with the inventory
China IECSC		: On the	inventory, or	in compliance with the inventory
Other regulations		·lawo	n the Preventi	on and Control of Occupational
j		Disea		
TION 16: Other in Further information		3		
		3		
Further information		3		
Further information	ber : 207	-	ghlighted in th	e margin. This version replaces all
Further information	ber : 207 s since the last ver	-	ghlighted in th	e margin. This version replaces all
Further information Legacy SDS Numb Significant change previous versions.	ber : 207	sion are hi		
Further information Legacy SDS Number Significant change previous versions. The information in	ber : 207 s since the last ver this SDS pertains o	sion are hi only to the	product as shi	ipped.
Further information Legacy SDS Number Significant change previous versions. The information in The information pr	ber : 207 s since the last ver this SDS pertains o ovided in this Safet	sion are hi only to the y Data She	product as shi	pped. o the best of our knowledge,
Further information Legacy SDS Number Significant change previous versions. The information in The information pr information and be	ber : 207 s since the last ver this SDS pertains o ovided in this Safet lief at the date of it	sion are hig only to the y Data She s publicatio	product as sh pet is correct t	ipped.
Further information Legacy SDS Number Significant change previous versions. The information in The information pr information and be guidance for safe h not to be considered	ber : 207 s since the last ver this SDS pertains of ovided in this Safet elief at the date of it handling, use, proce ed a warranty or qu	sion are high only to the y Data She s publication essing, sto ality specif	product as sh eet is correct t on. The inform rage, transpor ication. The ir	ipped. o the best of our knowledge, ation given is designed only as a tation, disposal and release and is iformation relates only to the
Further information Legacy SDS Number Significant change previous versions. The information in The information pr information and be guidance for safe le not to be considered specific material de	ber : 207 s since the last ver this SDS pertains of ovided in this Safet elief at the date of it handling, use, proc ed a warranty or qu esignated and may	sion are high only to the y Data She s publication essing, sto ality specifi not be vali	product as sh bet is correct t on. The inform rage, transpor ication. The ir d for such ma	pped. o the best of our knowledge, ation given is designed only as a tation, disposal and release and is
Further information Legacy SDS Number Significant change previous versions. The information in The information pr information and be guidance for safe le not to be considered specific material de	ber : 207 s since the last ver this SDS pertains of ovided in this Safet elief at the date of it handling, use, proce ed a warranty or qu	sion are high only to the y Data She s publication essing, sto ality specifi not be vali	product as sh bet is correct t on. The inform rage, transpor ication. The ir d for such ma	ipped. o the best of our knowledge, ation given is designed only as a tation, disposal and release and is iformation relates only to the
Further information Legacy SDS Number Significant change previous versions. The information in The information previous versions The information and be guidance for safe for specific material de other materials or in Key or	ber : 207 s since the last ver this SDS pertains of ovided in this Safet lief at the date of it handling, use, proc ed a warranty or qu esignated and may in any process, unlo	sion are high only to the y Data She s publication essing, sto ality specifient not be valions and a	product as sh pet is correct t on. The inform rage, transpor ication. The ir d for such ma ed in the text.	ipped. o the best of our knowledge, ation given is designed only as a tation, disposal and release and is formation relates only to the terial used in combination with any d in the safety data sheet
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SAFETY DATA SHEET

Version 4.0

Revision Date 2024-03-20

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%	ATE	Acute toxicity estimate