### SAFETY DATA SHEET



## 2-Hydroxyethyl-n-Octyl Sulfide

Version 1.5

Revision Date 2021-09-09

CTION 1: Identification of	of the substance/mixture and of the company/undertaking
Product information	
Product Name Material	<ul> <li>2-Hydroxyethyl-n-Octyl Sulfide</li> <li>1121424, 1103532, 1097789, 1087149, 1027448, 1024825</li> </ul>
Use	: Chemical intermediate
Company	<ul> <li>Chevron Phillips Chemical Company LP Specialty Chemicals</li> <li>10001 Six Pines Drive The Woodlands, TX 77380</li> </ul>
Emergency telephone:	
Asia: CHEMWATCH EUROPE: BIG +32.1 Mexico CHEMTREC	rnational) 4.9300 or 703.527.3887(int'l) (+612 9186 1132) China: 0532 8388 9090 4.584545 (phone) or +32.14583516 (telefax) 01-800-681-9531 (24 hours) •Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Responsible Departmen E-mail address Website	<ul> <li>Product Safety and Toxicology Group</li> <li>SDS@CPChem.com</li> <li>www.CPChem.com</li> </ul>
CTION 2: Hazards identi	fication
	ubstance or mixture classified in accordance with the hazard communication standard 29 CFR d labels contain all the information as required by the standard.
Classification	: Skin irritation, Category 2 Serious eye damage, Category 1
Labeling	
S Number:100000014159	) 1/14

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# 2-Hydroxyethyl-n-Octyl Sulfide

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Symbol(s)			
Signal Word	: Dange	r	
Hazard Statements		5: Causes skin irritation. 3: Causes serious eye d	amage.
Precautionary Statements	water. P305 + with wa presen POISC P332 + attentic	Wash skin thoroughly Wear protective gloves onse: + P352 IF ON SKIN: V + P351 + P338 + P310 ater for several minutes. of and easy to do. Contin ON CENTER/ doctor. + P313 If skin irritation on.	after handling. s/ eye protection/ face protection. Wash with plenty of soap and IF IN EYES: Rinse cautiously Remove contact lenses, if nue rinsing. Immediately call a n occurs: Get medical advice/ I clothing and wash before reuse.
Carcinogenicity:			
IARC	equal to		sent at levels greater than or bable, possible or confirmed
NTP	No ingre	dient of this product pre	sent at levels greater than or nown or anticipated carcinogen
ECTION 3: Composition/infor	mation on i	ngredients	
Synonyms	: R-874		
Synonyms Molecular formula	: R-874 : C10H2	22OS	
	: C10H2	22OS CAS-No. 3547-33-9	Weight % 90 - 100
Molecular formula           Component           2-Hydroxyethyl-n-Octyl Sulf	: C10H2	CAS-No.	
Molecular formula           Component           2-Hydroxyethyl-n-Octyl Sulf	: C10H2	CAS-No.	
Molecular formula	: C10H2 ide : Move of materia may pr	CAS-No. 3547-33-9	90 - 100 Consult a physician. Show this ne doctor in attendance. Material
Molecular formula           Component           2-Hydroxyethyl-n-Octyl Sulf   ECTION 4: First aid measures	: C10H2 ide : Move of materia may pro- swallow : If unco	CAS-No. 3547-33-9 out of dangerous area. al safety data sheet to the roduce a serious, potent wed or vomited.	90 - 100 Consult a physician. Show this ne doctor in attendance. Material ially fatal pneumonia if ery position and seek medical
Molecular formula          Component         2-Hydroxyethyl-n-Octyl Sulf         ECTION 4: First aid measures         General advice	: C10H2 ide : Move of materia may pr swallow : If unco advice : If skin	CAS-No. 3547-33-9 out of dangerous area. al safety data sheet to th roduce a serious, potent wed or vomited. onscious, place in recove . If symptoms persist, c	90 - 100 Consult a physician. Show this ne doctor in attendance. Material ially fatal pneumonia if ery position and seek medical all a physician. physician. If on skin, rinse well

rinse immediately with plenty of water and seek medial advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. If swallowed : Keep respiratory tract clear. Never give anything by mouth t an unconscious person. If symptoms persist, call a physiciar Take victim immediately to hospital. <b>TION 5: Firefighting measures</b> Flash point : 109°C (228°F) Method: closed cup Autoignition temperature : No data available Suitable extinguishing : Carbon dioxide (CO2). Foam. Dry chemical. Unsuitable extinguishing : Migh volume water jet. Specific hazards during fire : 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. Thi must not be discharged into drains. Fire residues and contaminated fire extinguishing water separately. Thi must not be discharged into drains. Fire and explosion : Carbon oxides. Sulfur oxides. Fire and explosion : Carbon oxides. Sulfur oxides. <b>TION 6: Accidental release measures</b> Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Environmental precautions : Prevent product from entering drains. Prevent further leakag 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, a binder, sandwsli). Keep in suitable, closed		
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binder, universal binder, sawdust). Keep in suitable, closed	Environmental precautions	or spillage if safe to do so. If the product contaminates rivers
containers for disposal.	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.

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<b>SECTION 7: Handling and</b>	storage
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Handling	
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Advice on safe handling	:	Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
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.
Use	:	Chemical intermediate
SECTION 8: Exposure controls/personal protection		

### 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:. Full-Face Supplied-Air Respirator. Use a positive pressure, air-supplying respirator 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
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	contact time. Gloves should be discarded and replaced if ther is any indication of degradation or chemical breakthrough.	е
Eye protection	: Eye wash bottle with pure water.	
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to th specific work-place. Wear as appropriate:. Protective suit. Complete head face and neck protection. Rubber apron. Footwear protecting against chemicals. Safety shoes.	е
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 chen	ical properties	
Information on basic phys	cal and chemical properties	
Appearance		
Form Physical state Color Odor	: liquid : liquid : Clear to light amber : Mild	
Safety data		
Flash point	: 109°C (228°F) Method: closed cup	
Lower explosion limit	: No data available	
Upper explosion limit	: No data available	
Oxidizing properties	: No	
Autoignition temperature	: No data available	
Molecular formula	: C10H22OS	
Molecular weight	: 190.38 g/mol	
рН	: No data available	
Pour point	: No data available	
Boiling point/boiling range	: 283-285°C (541-545°F)	
Vapor pressure	: 0.00 MMHG at 25°C (77°F)	
Relative density	: 0.93 at 15.6 °C (60.1 °F)	
Density	: 0.935 g/cm3 at 20°C (68°F)	
Water solubility	: 38.13 MG/L at 25°C (77°F)	

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Partition coefficient: n- octanol/water	: log Pow: 3.64 at 25°C (77°F)
Solubility in other solvents	: slightly soluble
Viscosity, dynamic	: 11 cP
Relative vapor density	: No data available
Evaporation rate	: No data available
CTION 10: Stability and reactive	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	ctions
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.
	Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: Heat, sparks, fire, and oxidizing agents.
Materials to avoid Hazardous decomposition products	<ul> <li>Avoid oxidizing agents.</li> <li>Carbon oxides Sulfur oxides</li> </ul>
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological infor	mation
Acute oral toxicity	
2-Hydroxyethyl-n-Octyl Sulfide	: LD50: > 5,000 mg/kg Species: Rat Sex: male and female Method: OECD Test Guideline 401
Acute inhalation toxicity	
2-Hydroxyethyl-n-Octyl Sulfide	: LC50: >6.12milligram per literExposure time: 4 h Species: Rat Sex: male and female
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	Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	
2-Hydroxyethyl-n-Octyl Sulfide	<ul> <li>LD50: &gt;2000 milligram per kilogram</li> <li>Species: Rabbit</li> <li>Sex: male and female</li> <li>Method: OECD Test Guideline 402</li> </ul>
Skin irritation	
2-Hydroxyethyl-n-Octyl Sulfide	: Skin irritation
<b>Eye irritation</b> 2-Hydroxyethyl-n-Octyl Sulfide	: Irritation to eyes, reversing within 7 days
Sensitization	
2-Hydroxyethyl-n-Octyl Sulfide	: Did not cause sensitization on laboratory animals.
Repeated dose toxicity	
2-Hydroxyethyl-n-Octyl Sulfide	<ul> <li>Species: Rat, Male and female Sex: Male and female Application Route: Oral Dose: 0, 74, 368, 1842 mg/kg/day Exposure time: 13 wks NOEL: &gt; 1842 mg/kg/day Method: OECD Test Guideline 408 No adverse effects expected</li> </ul>
	Species: Rabbit, Male and female Sex: Male and female Application Route: Dermal Dose: 50, 100, 200 mg/kg/day Exposure time: 21 days NOEL: > 200 mg/kg/day Method: OCED Guideline 408
Genotoxicity in vitro	
2-Hydroxyethyl-n-Octyl Sulfide	: Test Type: Ames test Result: negative
	Test Type: Chromosome aberration test in vitro Result: negative
	Test Type: Mouse lymphoma assay Result: negative
	Test Type: Sister Chromatid Exchange Assay Result: negative
Reproductive toxicity	
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2-Hydroxyethyl-n-Octyl Sulfide	: This information is not available.
Developmental Toxicity	
2-Hydroxyethyl-n-Octyl Sulfide	: Species: Rat Application Route: oral gavage Dose: 0, 100, 300, 1000 mg/kg.day Number of exposures: daily Test period: GD 6-15 Method: OECD Guideline 414 NOAEL Teratogenicity: 300 mg/kg/day NOAEL Maternal: 1000 mg/kg/day
	Species: Rat Application Route: oral gavage Dose: 47, 187. 748 mg/kg/day Number of exposures: daily Test period: GD 5-15 Method: OECD Guideline 414 NOAEL Teratogenicity: 748 mg/kg/day NOAEL Maternal: 748 mg/kg/day
2-Hydroxyethyl-n-Octyl Sulf Aspiration toxicity	fi <b>de</b> : May be harmful if swallowed and enters airways.
CMR effects	
2-Hydroxyethyl-n-Octyl Sulfide	<ul> <li>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.</li> </ul>
2-Hydroxyethyl-n-Octyl Sulf Further information	ide : Solvents may degrease the skin.
CTION 12: Ecological informa	ation
Toxicity to fish	
2-Hydroxyethyl-n-Octyl Sulfide	: LC50: 2.9 mg/l Exposure time: 96 h Species: Salmo gairdneri (Rainbow trout) flow-through test Method: EPA OPP 72-1
	LC50: 2.7 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Bluegill sunfish) flow-through test Method: EPA OPP 72-1
Toxicity to daphnia and othe	er aquatic invertebrates
2-Hydroxyethyl-n-Octyl	: EC50: 0.38 mg/l

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Sulfide	Exposure time: 48 h Species: Daphnia magna (Water flea) flow-through test
Toxicity to algae	
2-Hydroxyethyl-n-Octyl Sulfide	<ul> <li>EC50 (calculated): 5.33 mg/l</li> <li>Exposure time: 96 h</li> <li>Species: Chlamydomonas angulosa (Green algae)</li> <li>Method: QSAR modeled data</li> </ul>
<b>M-Factor</b> 2-(octylthio)ethanol	: M-Factor (Acute Aquat. Tox.) 1
Biodegradability	
2-Hydroxyethyl-n-Octyl Sulfide	<ul> <li>aerobic Result: Readily biodegradable.</li> <li>99.8 %</li> <li>Testing period: 28 d</li> <li>Method: OECD Test Guideline 301B</li> </ul>
Bioaccumulation	
2-Hydroxyethyl-n-Octyl Sulfide	: Bioconcentration factor (BCF): 117 Method: QSAR modeled data Information refers to the main ingredient.
Mobility	
2-Hydroxyethyl-n-Octyl Sulfide	: No data available
Results of PBT assessment 2-Hydroxyethyl-n-Octyl Sulfide	: Non-classified PBT substance, Non-classified vPvB substance
Additional ecological information	: Very toxic to aquatic life.
Ecotoxicology Assessment	
Short-term (acute) aquatic haz 2-Hydroxyethyl-n-Octyl Sulfide	ard : Very toxic to aquatic life.
TION 13: Disposal considera	tions
The information in this SDS pe	ertains only to the product as shipped.
may meet the criteria of a haza other State and local regulation regulated components may be	urpose or recycle if possible. This material, if it must be discarded, ardous waste as defined by US EPA under RCRA (40 CFR 261) or ns. Measurement of certain physical properties and analysis for necessary to make a correct determination. If this material is te, federal law requires disposal at a licensed hazardous waste
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Product	: The product should not be allowed to enter drain courses or the soil. Do not contaminate ponds, ditches with chemical or used container. Send to waste management company.	waterways or
Contaminated packaging	: Empty remaining contents. Dispose of as unuse Do not re-use empty containers.	ed product.
CTION 14: Transport informatio	on	
	own here are for bulk shipments only, and may ges (see regulatory definition).	not apply to
Goods Regulations for additiona etc.) Therefore, the information	tic or international mode-specific and quantity-special shipping description requirements (e.g., technican shown here, may not always agree with the bill of ashpoints for the material may vary slightly between	I name or name lading shipping
	EPARTMENT OF TRANSPORTATION) LLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., L SULFIDE), 9, III	(2-
UN3082, ENVIRONMENTAL	<b>- MARITIME DANGEROUS GOODS)</b> LLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., L SULFIDE), 9, III, (109°C), MARINE POLLUTANT L SULFIDE)	
IATA (INTERNATIONAL AIR T UN3082, ENVIRONMENTAL HYDROXYETHYL-N-OCTYI	LLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,	(2-
	<b>GEROUS GOODS BY ROAD (EUROPE))</b> LLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., L SULFIDE), 9, III, (-)	(2-
DANGEROUS GOODS (EURO	LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (	2-
OF DANGEROUS GOODS BY	LLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,	
Maritime transport in bulk ac	cording to IMO instruments	

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CTION 15: Regulatory information			
National legislation			
SARA 311/312 Hazards	: Skin corrosion or irritation Serious eye damage or eye irritation		
CERCLA Reportable Quantity	Calculated RQ exceeds reasonably attainable upper limit. Oxirane		
SARA 302 Reportable Quantity	: Calculated RQ exceeds rea Oxirane	asonably attainable upper limit.	
SARA 302 Threshold Planning Quantity	: This material does not cont 302 EHS TPQ.	This material does not contain any components with a section 302 EHS TPQ.	
SARA 304 Reportable Quantity	: Calculated RQ exceeds rea Oxirane 75-21-8	asonably attainable upper limit. 10 lbs	
SARA 313 Components	known CAS numbers that e	tain any chemical components with exceed the threshold (De Minimis) d by SARA Title III, Section 313.	
Clean Air Act Ozone-Depletion : This pro	nduct neither contains, nor wa	s manufactured with a Class I or	
Potential Class II		Clean Air Act Section 602 (40 CFR	
This product does not contain Act Section 112 (40 CFR 61).	any hazardous air pollutants (	(HAP), as defined by the U.S. Clean Air	
This product does not contain Accidental Release Preventior		e U.S. Clean Air Act Section 112(r) for	
This product does not contain Intermediate or Final VOC's (4		e U.S. Clean Air Act Section 111 SOCMI	
US State Regulations			
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	: 2-Hydroxyethyl-n-Octyl Sulfid Methanol - 67-56-1 Oxirane - 75-21-8	le - 3547-33-9
California Prop. 65 Components	: WARNING: This product can expose you to chemicals [listed below], which is [are] known to the State of Calif- cause cancer. For more information go to www.P65Warnings.ca.gov/food.	
	Oxirane	75-21-8
	Methanol	67-56-1
Notification status Europe REACH Switzerland CH INV United States of America (USA TSCA Canada DSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI	<ul> <li>On the inventory, or</li> <li>On the inventory, or</li> <li>All components of th DSL</li> <li>On the inventory, or</li> <li>On the inventory, or</li> <li>On the inventory, or</li> <li>On the inventory, or</li> <li>A substance(s) in thin notified to be registed by CPChem according Importation or manupermitted provided themselves notified to amount does not excording anount does not excording the non-restored to the monthematical constraints of the non-restored to the non-restored to the monthematical constraints of the non-restored to the monthematical constraints of the non-restored to the non-resto</li></ul>	in compliance with the inventory in compliance with the inventory in compliance with the inventory is product are on the Canadian in compliance with the inventory in compliance with the inventory in compliance with the inventory is product was not registered, red, or exempted from registration ng to K-REACH regulations. facture of this product is still he Korean Importer of Record has the substance or the exported ceed the minimum threshold egistered substance(s).
	<b>N I I I</b>	ith the inventory

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#### SECTION 16: Other information

NFPA Classification	: Health Hazard: 3 Fire Hazard: 1 Reactivity Hazard: 0	
Further information Legacy SDS Number	: 630460	

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		
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effe
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agenc
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupatio 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 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 Substar
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
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 on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act

#### SAFETY DATA SHEET

## 2-Hydroxyethyl-n-Octyl Sulfide

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	New Chemical Substances		
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%		

SDS Number:100000014159