SAFETY DATA SHEET

HE® 150 Polymer



A DIVISION OF CHEVRON PHILLIPS CHEMICAL COMPANY LP

Version 2.1

SECTION 1: Identification of th	ne su	bstance/mixture and of the company/undertaking
Product information		
Product Name Material		HE® 150 Polymer 1115709, 1075379
Use	:	Friction Reducer, Fluid Thickener
Company	:	Chevron Phillips Chemical Company LP Drilling Specialties Company LLC 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:		
EUROPE: BIG +32.14.58	tional 800 oi (+800 8454 ec In)
SECTION 2: Hazards identifica	tion	
SECTION 2. Hazarus identifica	lion	
1910.1200; the SDS and labels o	in ac	nixture cordance with the hazard communication standard 29 CFR in all the information as required by the standard.
Emergency Overview		
Warning Form: Powder Physical s OSHA Hazards		e: Solid Color : White Odor : No odor Combustible dust
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Classification	: Comb	ustible dust	
Labeling			
Signal Word	: Warni	ng	
Hazard Statements	: May	form combustible d	ust concentrations in air.
Potential Health Effects			
Physical Hazards	concer	trations in air and th atures may generat	y form combustible dust hermal processing at elevated e simple hydrocarbons and carbon
Carcinogenicity:			
IARC			t present at levels greater than or s probable, possible or confirmed
	human d	carcinogen by IARC	
NTP	equal to	0.1% is identified a	t present at levels greater than or s a known or anticipated carcinogen
ACGIH	by NTP. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.		
CTION 3: Composition/inf	ormation on	ingredients	
Synonyms	: CMP-0	098-02	
Molecular formula	: UVCB		
Component Sodium salt of sulfonated and acrylic amide	acrylamide	CAS-No. Proprietary	Weight % 100
TION 4: First aid measur	es		
		zards which require	special first aid measures
General advice	: No ha		special first aid measures.
	: No ha		covery position and seek medical
General advice	: No ha : If unco advice : Remo	onscious place in re e. If symptoms pers	covery position and seek medical ist, call a physician. Protect unharmed eye. If eye
General advice If inhaled	: No ha : If unco advice : Remo irritatio : Keep	onscious place in re e. If symptoms pers ve contact lenses. I on persists, consult respiratory tract clea	covery position and seek medical ist, call a physician. Protect unharmed eye. If eye

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SECTION 5: Firefighting measured	res	
Flash point	:	Not applicable
Autoignition temperature	:	Not applicable
Specific hazards during fire fighting	:	Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges.
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.
Hazardous decomposition products	:	Hydrocarbons. Carbon oxides.
SECTION 6: Accidental release	me	asures
Personal precautions	:	Avoid dust formation.
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Pick up and arrange disposal without creating dust. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.
Additional advice	:	Contaminated surfaces will be extremely slippery. Avoid spillage on floor as the product can become very slippery when wet. Sweep up to prevent slipping hazard. 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 compressed air).
SECTION 7: Handling and stora	ge	
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.
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Advice on protection against fire and explosion	:	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.
Storage		
Requirements for storage areas and containers	:	Electrical installations / working materials must comply with the technological safety standards.
Advice on common storage	:	No materials to be especially mentioned.
ECTION 8: Exposure controls	/per	sonal protection
azardous components without workplace Engineering measures	e cor	trol parameters
Consider the potential hazard activities, and other substand personal protective equipment exposure to harmful levels of recommended. The user sho	ds c ces nt. f thi: oulc	irborned concentrations below the exposure guidelines/limits. If this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selecting of engineering controls or work practices are not adequate to prever s material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with s usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection	:	Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Dusts and Mists / P100. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
Hand protection	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	:	Eye wash bottle with pure water. 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	:	General industrial hygiene practice.
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Information on boots of	
	cal and chemical properties
Appearance	
Form	: Powder : Solid
Physical state Color	: White
Odor	: No odor
Odor Threshold	: No data available
Safety data	
Flash point	: Not applicable
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Flammability (solid, gas)	: May form combustible dust concentrations in air.
Oxidizing properties	: No
Autoignition temperature	: Not applicable
Thermal decomposition	: No data available
Molecular formula	: UVCB
Molecular weight	: Not applicable
рН	: 7
Pour point	: Not applicable
Boiling point/boiling range	: Not applicable
Vapor pressure	: Not applicable
Relative density	: Not applicable
Density	: 1.40 g/cm3
Water solubility	: Completely Soluble
Partition coefficient: n- octanol/water	: No data available
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Relative vapor density	: Not applicable
Evaporation rate	: No data available

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SECTION 10: Stability and react	SECTION 10: Stability and reactivity		
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.		
Possibility of hazardous rea	actions		
Conditions to avoid	: Generation of Dusts.		
Thermal decomposition	: No data available		
Hazardous decomposition products	: Hydrocarbons Carbon oxides		
Other data	: No decomposition if stored and applied as directed.		
SECTION 11: Toxicological info	rmation		
HE® 150 Polymer			
Acute oral toxicity	: LD50: > 5.0 g/kg		
HE® 150 Polymer Skin irritation	: No skin irritation		
HE® 150 Polymer Eye irritation	: No eye irritation		
HE® 150 Polymer Aspiration toxicity	: No aspiration toxicity classification.		
HE® 150 Polymer Further information	: No data available.		
SECTION 12: Ecological information	ation		
Elimination information (persi	stence and degradability)		
Biodegradability	: This material is not expected to be readily biodegradable.		
Ecotoxicology Assessment	t		
Additional ecological information	: This material is not expected to be harmful to aquatic organisms.		
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SECTION 13: Disposal considerations

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.

Contaminated packaging

: Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: 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 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.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

CTION 15: Regulatory inform	nation	
National legislation		
SARA 311/312 Hazards	: Fire Hazard	
CERCLA Reportable Quantity	: This material does not contain any components with a CERCLA RQ.	
SARA 302 Reportable Quantity	: This material does not contain any components with a SARA 302 RQ.	
SARA 302 Threshold Planning Quantity	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 304 Reportable Quantity	: This material does not contain any components with a section 304 EHS RQ.	
SARA 313 Ingredients	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	
Clean Air Act		
Potential Class	roduct neither contains, nor was manufactured with a Class I or II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR ubpt. A, App.A + B).	
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).		
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).		
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).		
US State Regulations		
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Pennsylvania Right To Know :	No components are subject to the Pennsylvania Right to Know Act.
New Jersey Right To Know :	No components are subject to the New Jersey Right to Know Act.
California Prop. 65 : Ingredients	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
Notification status Europe REACH United States of America TSCA Canada DSL Australia AICS New Zealand NZIOC Japan ENCS Korea KECI	 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 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Not in compliance with the inventory
Philippines PICCS China IECSC	On the inventory, or in compliance with the inventoryOn the inventory, or in compliance with the inventory
SECTION 16: Other information	
NFPA Classification :	Health Hazard: 0 Fire Hazard: 2 Reactivity Hazard: 0
Further information	
Legacy SDS Number :	CPC00474
Significant changes since the la previous versions.	st version are highlighted in the margin. This version replaces all
The information in this SDS per	tains only to the product as shipped.
	Safety Data Sheet is correct to the best of our knowledge, e of its publication. The information given is designed only as a
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guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

K	ey or legend to abbreviations and a	cronyms used	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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