SAFETY DATA SHEET



HE® 100 Polymer

Version 2.2

Revision Date 2021-04-13

SECTION 1: Identification of the substance/mixture and of the company/undertaking				
Product information				
Product Name Material	: HE® 100 Polymer : 1016934			
Company	 Chevron Phillips Chemical Company LP Drilling Specialties Company LLC 10001 Six Pines Drive The Woodlands, TX 77380 			
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 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) 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				
Responsible Department E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com 			
SECTION 2: Hazards identificat	ion			
Classification of the substance or mixture This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard. Classification : Combustible dust				
Labeling				
Signal Word	: Warning			
SDS Number:100000068283	1/11			

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Hazard Statements	: May form combustible dust concentrations in air.		
Potential Health Effects			
Physical Hazards	: Mechanical processing may form combustible dust concentrations in air and thermal processing at elevated temperatures may generate simple hydrocarbons and carbon oxides.		
Carcinogenicity:			
IARC	equal to	0.1% is identified as prob	ent at levels greater than or able, possible or confirmed
NTP	human carcinogen by IARC. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
CTION 3: Composition/info	rmation on in	ngredients	
Synonyms	: None E	Established	
Molecular formula	: Polyme	er	
Component Sodium salt of sulfonated a and acrylic amide	crylamide	CAS-No. Proprietary	Weight % 90
CTION 4: First aid measure	S		
General advice	: No haz	zards which require speci	al first aid measures.
If inhaled		: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.	
	: Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.		
In case of eye contact	irritatio		cialist.
In case of eye contact If swallowed	: Keep r bevera	n persists, consult a specespiratory tract clear. Do	not give milk or alcoholic g by mouth to an unconscious
	: Keep r bevera person	n persists, consult a specespiratory tract clear. Do ges. Never give anything	not give milk or alcoholic g by mouth to an unconscious
If swallowed	: Keep rebeverand person	n persists, consult a specespiratory tract clear. Do ges. Never give anything	not give milk or alcoholic g by mouth to an unconscious
If swallowed CTION 5: Firefighting meas	: Keep robevera person ures : Not ap	n persists, consult a spece espiratory tract clear. Do ges. Never give anything If symptoms persist, ca	not give milk or alcoholic g by mouth to an unconscious
If swallowed CTION 5: Firefighting meas Flash point	: Keep r bevera person ures : Not ap : No data : Avoid t	n persists, consult a spece espiratory tract clear. Do ges. Never give anything . If symptoms persist, ca plicable a available	o not give milk or alcoholic g by mouth to an unconscious II a physician.

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rsion 2.2		Revision Date 2021-04-
Specific hazards during fire fighting	:	Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding 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	:	Carbon Dioxide. Carbon oxides.
CTION 6: Accidental release	me	asures
Personal precautions	:	Avoid dust formation.
Environmental precautions	:	No special environmental precautions required.
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.
CTION 7: Handling and stora	ige	
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. Potentially toxic/irritating fumes may be evolved from heated material.
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.
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Advice on common storage : No materials to be especially mentioned.

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. 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 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.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties		
Appearance		
Physical state Color Odor Odor Threshold	: solid : White : no odor : Not applicable	
Safety data		
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Flash point	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Oxidizing properties	: No
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Molecular formula	: Polymer
Molecular weight	: No data available
рН	: Not applicable
Pour point	: Not applicable
Melting point/range	Not applicable
Boiling point/boiling range	: Not applicable
Vapor pressure	: Not applicable
Relative density	: 1.39 at 16 °C (61 °F)
Density	: 58 LB/FT3
Water solubility	: Soluble
Partition coefficient: n-	: No data available
octanol/water Solubility in other solvents	: No data available
Viscosity, kinematic	: Not applicable
Relative vapor density	: Not applicable
Evaporation rate	: Not applicable
Dust deflagration index Kst	: > 0.0 m.b_/s
CTION 10: Stability and react	ivity
Reactivity	: Stable at normal ambient temperature and pressure.

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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	: Further information: Stable under recommended storage conditions., No hazards to be specially mentioned.
Conditions to avoid	: Generation of Dusts.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Thermal decomposition	: No data available
Hazardous decomposition products	: Carbon Dioxide Carbon oxides
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological infor	mation
HE® 100 Polymer Acute oral toxicity	: LD50: > 5,000 mg/kg Species: Rat
HE® 100 Polymer Acute inhalation toxicity	: No data available
HE® 100 Polymer Acute dermal toxicity	: No data available
HE® 100 Polymer Skin irritation	: No skin irritation
HE® 100 Polymer Eye irritation	: No eye irritation
HE® 100 Polymer Aspiration toxicity	: No aspiration toxicity classification.
HE® 100 Polymer Further information	: Product dust may be irritating to eyes, skin and respiratory system.
CTION 12: Ecological informa	tion

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Ecotoxicity effects	
Toxicity to fish	: This material is not expected to be harmful to aquatic organisms.
Toxicity to daphnia and other aquatic invertebrates	: This material is not expected to be harmful to aquatic organisms.
Toxicity to algae	: This material is not expected to be harmful to aquatic organisms.
Biodegradability	: This material is not expected to be readily biodegradable.
Elimination information (persis	tence and degradability)
Bioaccumulation	: Bioaccumulation is unlikely.
Mobility	: No data available
Additional ecological information	: This material is not expected to be harmful to aquatic organisms.
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.
CTION 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 regulatio 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 a necessary to make a correct determination. If this material is te, federal law requires disposal at a licensed hazardous waste Empty containers should be taken to an approved waste handling site for recycling or disposal.
CTION 14: Transport informat	
	hown here are for bulk shipments only, and may not apply to ages (see regulatory definition).
Goods Regulations for addition	stic or international mode-specific and quantity-specific Dangerous nal shipping description requirements (e.g., technical name or name on shown here, may not always agree with the bill of lading shipping lashpoints for the material may vary slightly between the SDS and th

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US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.					
NOT REGULATED AS A	IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.				
NOT REGULATED AS A	IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.				
NOT REGULATED AS A	ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.				
RID (REGULATIONS CONC	ERNING THE INTERNATIONAL TRANSPORT OF				
DANGEROUS GOODS (EU NOT REGULATED AS A TRANSPORTATION BY	HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR				
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.					
SECTION 15: Regulatory inform	nation				
National legislation					
SARA 311/312 Hazards	: Combustible dust				
CERCLA Reportable	: Calculated RQ exceeds reasonably attainable upper limit.				
Quantity	Acrylamide				
SARA 302 Reportable	: Calculated RQ exceeds reasonably attainable upper limit.				
Quantity	Acrylamide				
SARA 302 Threshold	: This material does not contain any components with a section				
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Planning Quantity	302 EHS TPQ.	
SARA 304 Reportable	: Calculated RQ exceeds rea	asonably attainable upper limit.
Quantity	Acrylamide 79-06-1	5000 lbs
SARA 313 Components	known CAS numbers that e	ain any chemical components with exceed the threshold (De Minimis) I by SARA Title III, Section 313.
Clean Air Act		
Potential Class	product neither contains, nor was s II ODS as defined by the U.S. C Subpt. A, App.A + B).	s manufactured with a Class I or Clean Air Act Section 602 (40 CFR
This product does not conta Act Section 112 (40 CFR 6		HAP), as defined by the U.S. Clean Ai
	ain any chemicals listed under the tion (40 CFR 68.130, Subpart F).	e U.S. Clean Air Act Section 112(r) for
This product does not conta Intermediate or Final VOC's		e U.S. Clean Air Act Section 111 SOCI
US State Regulations		
Pennsylvania Right To Kno	: Sodium salt of sulfonated a Proprietary	crylamide and acrylic amide -
	Acrylamide - 79-06-1	
California Prop. 65 Components		ontains a chemical known in the birth defects or other reproductive 79-06-1
Notification status Europe REACH	: This product is in f	ull compliance according to REACH

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Switzerland CH INV United States of Americ TSCA Other AIIC Japan ENCS New Zealand NZIoC Korea KECI	: N Ha (USA) : C T : C : C : N : A n b ! Ir p tt	egulation 1907/2006/EC. ot in compliance with the inventory in or in compliance with the active portion of the SCA inventory in the inventory, or in compliance with the inventory on the inventory, or in compliance with the inventory ot in compliance with the inventory substance(s) in this product was not registered, otified to be registered, or exempted from registration y CPChem according to K-REACH regulations. Inportation or manufacture of this product is still ermitted provided the Korean Importer of Record has nemselves notified the substance or the exported
		mount does not exceed the minimum threshold uantity of the non-registered substance(s).
Philippines PICCS Taiwan TCSI	: C : C	n the inventory, or in compliance with the inventory n the inventory, or in compliance with the inventory
China IECSC	: C	n the inventory, or in compliance with the inventory
TION 16: Other inform	ation	
		Tord 1
NFPA Classification	: Health Ha Fire Haza	
	Reactivity	
Further information		
	: 168830	
Legacy SDS Number		
Legacy SDS Number		
		re highlighted in the margin. This version replaces al
Significant changes sind previous versions.	ce the last version a	re highlighted in the margin. This version replaces al
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Significant changes sind previous versions. The information in this S The information provide information and belief a guidance for safe handl not to be considered a specific material design other materials or in any <u>Key or lege</u> ACGIH America Governi AICS Australi Substar DSL Canada List NDSL Canada Substar	ce the last version a SDS pertains only to d in this Safety Dat t the date of its pub- ing, use, processing warranty or quality s ated and may not b y process, unless sp <u>ind to abbreviations</u> an Conference of <u>ment Industrial Hygier</u> a, Inventory of Chemin ces b, Domestic Substance b, Non-Domestic nces List Nervous System	a the product as shipped. a Sheet is correct to the best of our knowledge, ication. The information given is designed only as a g, storage, transportation, disposal and release and is pecification. The information relates only to the e valid for such material used in combination with any becified in the text. and acronyms used in the safety data sheet LD50 Lethal Dose 50% cal LOAEL Lowest Observed Adverse Effect Level es NFPA National Institute for Occupation Safety & Health NTP National Toxicology Program
Significant changes sind previous versions. The information in this S The information provide information and belief a guidance for safe handl not to be considered a specific material design other materials or in any <u>Key or lege</u> ACGIH America Governi AICS Australi Substar DSL Canada List NDSL Canada Substar	ce the last version a SDS pertains only to d in this Safety Dat t the date of its pub- ing, use, processing warranty or quality s ated and may not b y process, unless sp <u>ind to abbreviations</u> an Conference of <u>ment Industrial Hygier</u> a, Inventory of Chemin ces b, Domestic Substance	a the product as shipped. a Sheet is correct to the best of our knowledge, ication. The information given is designed only as a g, storage, transportation, disposal and release and is pecification. The information relates only to the e valid for such material used in combination with any becified in the text. and acronyms used in the safety data sheet LD50 Lethal Dose 50% cal LOAEL Lowest Observed Adverse Effect Level es NFPA National Fire Protection Agency NIOSH National Institute for Occupation Safety & Health

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			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%		