SAFETY DATA SHEET



TRIBEX™ ERD Additive

Version 1.1

Revision Date 2020-12-16

according to GB/T 16483 and GB/T 17519

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

Product information		
Product Name Material		TRIBEX™ ERD Additive 1123862
Company	:	Chevron Phillips Chemical Company LP Drilling Specialties Company LLC 10001 Six Pines Drive The Woodlands, TX 77380
Local	:	See Company Address
Emergency telephone:		
EUROPE: BIG +32.14.584 Mexico CHEMTREC 01-80	ona 0 o 2 9 454 00- c In	l) r 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 5 (phone) or +32.14583516 (telefax) 681-9531 (24 hours) iside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Responsible Department E-mail address Website	:	Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
SECTION 2: Hazards identificati	on	
Classification of the substa GHS Classification and Lab (GHS 2011) Emergency Overview		e or mixture ng: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29
Warning		
Form: Powder Physical st Hazards		e: solid Color : Brown Odor : Slight, characteristic Causes mild skin irritation. Causes serious eye irritation.
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Classification	
	: Skin corrosion/irritation, Category 3 Serious eye damage/eye irritation, Category 2A
Labeling	
Symbol(s)	
Signal Word	: Warning
Hazard Statements	: H316: Causes mild skin irritation. H319: Causes serious eye irritation.
	 P264: Wash skin thoroughly after handling. P280: Wear eye protection/ face protection. Response: P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313: If skin irritation occurs: Get medical advice/ attention.
TION 3: Composition/infor	P337 + P313: If eye irritation persists: Get medical advice/ attention.
TION 3: Composition/infor	attention.
Chemical name	attention. rmation on ingredients CAS-No. / EINECS-No. Concentration [wt%]
Chemical name Calcium Hydroxide	attention. Trmation on ingredients CAS-No. / EINECS-No. Concentration [wt%] 1305-62-0 0.2 - 1
Chemical name	attention. Trmation on ingredients CAS-No. / EINECS-No. Concentration [wt%] 1305-62-0 0.2 - 1
Chemical name Calcium Hydroxide	attention. Trmation on ingredients CAS-No. / EINECS-No. Concentration [wt%] 1305-62-0 0.2 - 1
Chemical name Calcium Hydroxide Calcium Hydroxide	attention. rmation on ingredients CAS-No. / EINECS-No. Concentration [wt%] 1305-62-0 0.2 - 1 s : Move out of dangerous area. Consult a physician. Show this
Chemical name Calcium Hydroxide Calcium Hydroxide Calcium Hydroxide Calcium Hydroxide General advice	attention. rmation on ingredients CAS-No. / EINECS-No. Concentration [wt%] 1305-62-0 0.2 - 1 s : Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. : If unconscious, place in recovery position and seek medical
Chemical name Calcium Hydroxide Calcium Hydroxide Calcium Hydroxide Calcium Hydroxide	attention. rmation on ingredients CAS-No. / EINECS-No. Concentration [wt%] 1305-62-0 0.2 - 1 s : Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. : If skin irritation persists, call a physician. If on skin, rinse well

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500 1.1	Remove contact lenses. Protect unharmed eye. Keep ey wide open while rinsing. If eye irritation persists, consult a specialist.	е	
If swallowed	: Keep respiratory tract clear. Do NOT induce vomiting. Do give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, cal physician. Take victim immediately to hospital.		
TION 5: Firefighting measu	9S		
Flash point	: Not applicable		
Autoignition temperature	: Not applicable		
Unsuitable extinguishing media	: High volume water jet.		
Specific hazards during fire fighting	: Risks of ignition followed by flame propagation or seconda 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	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.		
Fire and explosion protection	: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is potential dust explosion hazard. Provide appropriate exha ventilation at places where dust is formed.	s a	
TION 6: Accidental release	neasures		
Personal precautions	: Use personal protective equipment. Avoid dust formation. Avoid breathing dust.		
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	Pick up and arrange disposal without creating dust. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.		
Additional advice	: Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they a released into the atmosphere in sufficient concentration. A dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).	\void	
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SECTION 7: Handling and storage

Handling		
Advice on safe handling	:	Avoid formation of respirable particles. 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. Dispose of rinse water in accordance with local and national regulations.
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	:	Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Not applicable

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 Air-Purifying Respirator for Organic Vapors, Dusts and Mists. 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 there is any indication of degradation or chemical breakthrough.
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 the specific work-place. Wear as appropriate:. Complete head face and neck protection. Footwear protecting against chemicals.
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	cal properties
Information on basic phys	cal and chemical properties
Appearance	
Form Physical state	: Powder : solid
Physical state Color	: Brown
Odor	: Slight, characteristic
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.
Autoignition temperature	: Not applicable
Thermal decomposition	: Not applicable
Molecular weight	: Not applicable
рН	: 7-10
Freezing point	: Not applicable
Melting point/range	Not applicable
Pour point	Not applicable
Boiling point/boiling range	: Not applicable
Vapor pressure	: Not applicable
Relative density	: Not applicable
Density	: 1 g/cm3

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Water solubility	: partly soluble	
Partition coefficient: n-	: Not applicable	
octanol/water Solubility in other solvents	: Not applicable	
Viscosity, kinematic	: No data available	
Relative vapor density	: Not applicable	
Evaporation rate	: Not applicable	
CTION 10: Stability and reactiv	vity	
Reactivity	: Stable at normal ambient temperature and pressure.	
Chemical stability	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.	
Possibility of hazardous read	ctions	
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.	
Conditions to avoid	: Generation of Dusts.	
Materials to avoid	: No data available.	
Thermal decomposition	Not applicable	
Other data	: No decomposition if stored and applied as directed.	
CTION 11: Toxicological inforr	nation	
Acute oral toxicity		
Calcium Hydroxide	: LD50: 7,340 mg/kg Species: Rat	
TRIBEX™ ERD Additive Skin irritation	: May irritate skin.	
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Eye irritation	: May cause irreversible eye damage.	
TRIBEX™ ERD Additive Further information	: No data available.	
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SECTION 12: Ecological information

cotoxicity effects Toxicity to fish		
Calcium Hydroxide	:	LC50: 160 mg/l Exposure time: 96 h Species: Gambusia affinis (Fish, fresh water) static test
Biodegradability	:	Taking into consideration the properties of several ingredients, the product is estimated not to be readily biodegradable according to OECD classification.
Elimination information (persis	sten	ce and degradability)
Bioaccumulation	:	The product may be accumulated in organisms.
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.

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.

Product	: Do not dispose of waste into sewer. Do not contaminate 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.

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

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Goods Regulations for additional sl etc.) Therefore, the information sh	hipping description requirements (e.g., technical name or names own here, may not always agree with the bill of lading shipping points for the material may vary slightly between the SDS and the
	RTMENT OF TRANSPORTATION) RDOUS MATERIAL OR DANGEROUS GOODS FOR AGENCY.
IMO / IMDG (INTERNATIONAL MAN NOT REGULATED AS A HAZA TRANSPORTATION BY THIS A	RDOUS MATERIAL OR DANGEROUS GOODS FOR
IATA (INTERNATIONAL AIR TRA NOT REGULATED AS A HAZA TRANSPORTATION BY THIS /	RDOUS MATERIAL OR DANGEROUS GOODS FOR
	COUS GOODS BY ROAD (EUROPE)) RDOUS MATERIAL OR DANGEROUS GOODS FOR AGENCY.
DANGEROUS GOODS (EUROPE	RDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS BY INI	RDOUS MATERIAL OR DANGEROUS GOODS FOR
ransport in bulk according to Annex ECTION 15: Regulatory information	II of MARPOL 73/78 and the IBC Code
Notification status Europe REACH	: This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006 (REACH).
Other United States of America (USA) TSCA	 Not in compliance with the inventory All substances listed as active on the TSCA inventory
Canada DSL	: All components of this product are on the Canadian DSL
Australia AICS	 On the inventory, or in compliance with the inventory Not in compliance with the inventory
New Zealand NZIoC	

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Japan ENCS Korea KECI	 Not in compliance with the inventory A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).
Philippines PICCS China IECSC Taiwan TCSI	 Not in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory
Other regulations	: Law on the Prevention and Control of Occupational Diseases

SECTION 16: Other information

Further information

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	ve 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	TLV	Threshold Limit Value	

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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%		