SAFETY DATA SHEET



TRIBEX™ ERD Additive

Version 1.2

Revision Date 2024-09-25

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:			
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 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 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Cyprus: 1401 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 147 111 09 471 977 (24 hours/day) France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) 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)			
DS Number:100000104111		1/10	

TRIBEX™ ERD Additive

SAFETY DATA SHEET

Version 1.2

Revision Date 2024-09-25

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** Warning Form: Powder Physical state: solid Color: Brown Odor: Slight, characteristic Hazards : Causes mild skin irritation. Causes serious eye irritation. Classification : Skin corrosion/irritation, Category 3 Serious eye damage/eye irritation, Category 2A Labeling Symbol(s) SDS Number:100000104111 2/10

BEX™ ERD Additi	ve		SAFETY DATA SHE	
sion 1.2			Revision Date 2024-09	
Signal Word	: Warnin	: Warning		
Hazard Statements		H316: Causes mild skin irritation. H319: Causes serious eye irritation.		
Precautionary Statements	 Prevention: 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. P337 + P313: If eye irritation persists: Get medical advice/ attention. 			
CTION 3: Composition/infor	mation on ing	redients		
Chemical name		CAS-No. / EINECS-No.	Concentration [wt%]	
Calcium Hydroxide		1305-62-0	0.2 - 1	
CTION 4: First aid measures	: Move out	t of dangerous area. Show the doctor in attendance.	this material safety data	
If inhaled		If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.		
In case of skin contact		If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.		
In case of eye contact	lenses. F	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.		
If swallowed	beverage	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.		
CTION 5: Firefighting measu	ures			
Flash point	: Not appli	cable		
Autoignition temperature	: Not appli	Not applicable		

IBEX™ ERD Additiv	/e	SAFETY DATA SHE	
sion 1.2		Revision Date 2024-09	
Unsuitable extinguishing media	:	High volume water jet.	
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	:	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 a potential dust explosion hazard. Provide appropriate exhaust ventilation at places where dust is formed.	
CTION 6: Accidental release	me	asures	
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 are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).	
CTION 7: Handling and stora	ige		
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			
		440	
S Number:100000104111		4/10	

TRIBEX™ ERD Additive

Version 1.2

Revision Date 2024-09-25

Requirements for storage : 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

SDS Number:100000104111

Respiratory protection : If ventilation or other engineering co maintain minimal oxygen content of normal atmospheric pressure, a sup respirator may be appropriate. If ex airborne material may occur, a NIOS provides protection may be appropri Air-Purifying Respirator for Organic A positive pressure, air-supplying re appropriate if there is potential for un aerosolization, exposure levels are r circumstances where air-purifying re adequate protection.	19.5% by volume under oplied-air NIOSH approved posure to harmful levels of SH approved respirator that iate, such as:. Full-Face Vapors, Dusts and Mists. spirator may be ncontrolled release, not known, or other
Hand protection : The suitability for a specific workplace with the producers of the protective the instructions regarding permeabil which are provided by the supplier of consideration the specific local cond product is used, such as the danger contact time. Gloves should be disc is any indication of degradation or cl	gloves. Please observe lity and breakthrough time of the gloves. Also take into litions under which the of cuts, abrasion, and the carded and replaced if there
Eye protection : Eye wash bottle with pure water.	
Skin and body protection : Choose body protection in relation to concentration and amount of danger specific work-place. Wear as approsed to Safety shoes.	rous substances, and to the
Hygiene measures : When using do not eat or drink. Wh Wash hands before breaks and at th	
SECTION 9: Physical and chemical properties	
Information on basic physical and chemical properties	
Appearance	
Form : Powder	

5/10

SAFETY DATA SHEET

TRIBEX™ ERD Additive

Version 1.2

Revision Date 2024-09-25

ersion 1.2		Revision Date 2024-09-2
Physical state Color Odor	: solid : Brown : Slight, characteristic	
Safety data		
Flash point	: Not applicable	
Lower explosion limit	: No data available	
Upper explosion limit	: No data available	
Autoignition temperature	: Not applicable	
Thermal decomposition	: Not applicable	
Molecular weight	: Not applicable	
рН	: 6.5 - 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	
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	
ECTION 10: Stability and reac	tivity	

Reactivity

: Stable at normal ambient temperature and pressure.

SDS Number:100000104111

IBEX™ ERD Additiv	SAFETY DATA SHE	
sion 1.2	Revision Date 2024-09	
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.	
Possibility of hazardous re	pactions	
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 info	prmation	
Aquita anal taxiaitu		
Acute oral toxicity Calcium Hydroxide	: LD50: 7,340 mg/kg Species: Rat	
TRIBEX™ ERD Additive Skin irritation	: May cause skin irritation and/or dermatitis.	
TRIBEX™ ERD Additive Eye irritation	May cause irreversible eye damage.	
TRIBEX™ ERD Additive Further information	No data available.	
CTION 12: Ecological inform	ation	
Ecotoxicity 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 (pers	istence and degradability)	
Bioaccumulation	: The product may be accumulated in organisms.	
S Number:100000104111	7/10	

	e
sion 1.2	Revision Date 2024-09
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 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 b	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 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 informa	tion
shipments in non-bulk pack Consult the appropriate dome Goods Regulations for additionetc.) Therefore, the information	shown here are for bulk shipments only, and may not apply to ages (see regulatory definition). estic or international mode-specific and quantity-specific Dangerous anal shipping description requirements (e.g., technical name or name on shown here, may not always agree with the bill of lading shipping clashpoints for the material may vary slightly between the SDS and t
	DEPARTMENT OF TRANSPORTATION) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.
	AL MARITIME DANGEROUS GOODS) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.
NOT REGULATED AS A I TRANSPORTATION BY T	HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY. TRANSPORT ASSOCIATION) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
NOT REGULATED AS A I TRANSPORTATION BY T IATA (INTERNATIONAL AIR NOT REGULATED AS A I	HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY. TRANSPORT ASSOCIATION) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR

SAFETY DATA SHEET

TRIBEX™ ERD Additive

Version 1.2

Revision Date 2024-09-25

	ROUS GOODS BY ROAD (EUROPE)) ARDOUS MATERIAL OR DANGEROUS GOODS FOR AGENCY.
RID (REGULATIONS CONCERNI	NG THE INTERNATIONAL TRANSPORT OF
DANGEROUS GOODS (EUROPE	
NOT REGULATED AS A HAZA TRANSPORTATION BY THIS	RDOUS MATERIAL OR DANGEROUS GOODS FOR AGENCY.
ADN (EUROPEAN AGREEMENT	CONCERNING THE INTERNATIONAL CARRIAGE
OF DANGEROUS GOODS BY IN	
NOT REGULATED AS A HAZA TRANSPORTATION BY THIS A	RDOUS MATERIAL OR DANGEROUS GOODS FOR AGENCY.
Maritime transport in bulk accor	ding to IMO instruments
TION 15: Regulatory information	
Notification status	
Europe REACH	: This product is in full compliance according to REACH
Switzerland CH INV	regulation 1907/2006/EC. : Not in compliance with the inventory
United States of America (USA)	: On or in compliance with the active portion of the
TSCA	TSCA inventory
Canada DSL	: All components of this product are on the Canadian
Australia AIIC	DSL
New Zealand NZIoC	On the inventory, or in compliance with the inventoryNot in compliance with the inventory
Japan ENCS	: Not in compliance with the inventory
Korea KECI	: 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	: Not in compliance with the inventory
Taiwan TCSI	: Not in compliance with the inventory
China IECSC	: Not in compliance with the inventory
Other regulations	: Law on the Prevention and Control of Occupational Diseases
TION 16: Other information	
Further information	
Olevelikie ender besteren alter attende	energiese was blackbackbackbackbackbackbackbackbackbackb
Significant changes since the last v previous versions.	version are highlighted in the margin. This version replaces all
Number:10000010/111	0/10

SDS Number:100000104111

TRIBEX™ ERD Additive

Version 1.2

Revision Date 2024-09-25

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.

ŀ	Key or legend to abbreviations and a	cronyms use	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	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%	ATE	Acute toxicity estimate