



TRIBEX™ ERD Additive

Version 2.1

Revision Date 2024-09-25

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

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

1.1 Product identifier

Product information

Product Name : TRIBEX™ ERD Additive
Material : 1123862

EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
Asphalt, Sulfonated, Sodium Salt	68201-32-1 269-212-0	Chevron Phillips Chemicals International NV 01-2119510713-49-0000
Asphalt, Sulfonated, Sodium Salt	68201-32-1 269-212-0	Chevron Phillips Chemical Company LP 01-2119510713-49-0002
Styrene	100-42-5 202-851-5 601-026-00-0	Chevron Phillips Chemicals International NV 01-2119457861-32-0005
1,3-Butadiene	106-99-0 203-450-8 601-013-00-X	Chevron Phillips Chemicals International NV 01-2119471988-16-0004
Calcium Hydroxide	1305-62-0 215-137-3	Chevron Phillips Chemicals International NV 01-2119862018-38-0001

1.2

Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses : Use in Oil and Gas field drilling and production operations -
Supported Industrial

1.3

Details of the supplier of the safety data sheet

Company : Chevron Phillips Chemical Company LP
Drilling Specialties Company LLC
10001 Six Pines Drive
The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.

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Airport Plaza (Stockholm Building)
Leonardo Da Vincilaan 19
1831 Diegem
Belgium

SDS Requests: (800) 852-5530
Responsible Party: Product Safety Group
Email:sds@cpchem.com

1.4**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 (Gifflinjen): +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)
Greece: (0030) 2107793777 (24 hours/day, 7 days/week)
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)
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

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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**2.1****Classification of the substance or mixture
REGULATION (EC) No 1272/2008**

Eye irritation, Category 2 H319:
 Causes serious eye irritation.

2.2**Labeling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : 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.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.

2.3**Other hazards**

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients**3.1 - 3.2****Substance or Mixture****Hazardous ingredients**

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
Calcium Hydroxide	1305-62-0 215-137-3	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	0,2 - 1	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures**4.1****Description of first-aid measures**

- General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
- 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 : 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 : 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.

4.2 Most important symptoms and effects, both acute and delayed**Notes to physician**

- Symptoms : No data available.
- Risks : No data available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No data available.

SECTION 5: Firefighting measures

- Flash point : Not applicable
- Autoignition temperature : Not applicable

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5.1**Extinguishing media**

Unsuitable extinguishing media : High volume water jet.

5.2**Special hazards arising from the substance or mixture**

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.

5.3**Advice for firefighters**

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.

SECTION 6: Accidental release measures**6.1****Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment. Avoid dust formation. Avoid breathing dust.

6.2**Environmental precautions**

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.

6.3**Methods and materials for containment and cleaning up**

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).

6.4**Reference to other sections**

Reference to other sections : For personal protection see section 8. For disposal considerations see section 13.

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SECTION 7: Handling and storage**7.1****Precautions for safe handling
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.

7.2**Conditions for safe storage, including any incompatibilities****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**8.1****Control parameters
Ingredients with workplace control parameters****SK**

Zložky	Podstata	Hodnota	Kontrolné parametre	Poznámka
Calcium Hydroxide	SK OEL	NPEL priemerný	1 mg/m ³	respirabilná frakcia
	SK OEL	NPEL krátkodobý	4 mg/m ³	respirabilná frakcia

SI

Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
Calcium Hydroxide	SI OEL	MV	1 mg/m ³	Alveolarna frakcija
	SI OEL	KTV	4 mg/m ³	Alveolarna frakcija

SE

Bestandsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Calcium Hydroxide	SE AFS	NGV	1 mg/m ³	inhalabel fraktion
	SE AFS	KGV	4 mg/m ³	inhalabel fraktion

RS

Компоненты	Основа	Величина	Параметры контроля	Заметка
Гидроксид кальция	RS OEL	GVI	5 mg/m ³	EU,

EU Substance mentioned in indicative exposure limit values in Directive 91/322 / EEC

RO

Componente	Sursă	Valoare	Parametri de control	Notă
Calcium Hydroxide	RO OEL	TWA	1 mg/m ³	Fracțiune respirabilă
	RO OEL	STEL	4 mg/m ³	Fracțiune respirabilă

PT

Componentes	Base	Valor	Parâmetros de controle	Nota
Calcium Hydroxide	PT OEL	VLE-MP	5 mg/m ³	
	PT DL 305/2007	oito horas	1 mg/m ³	Fração respirável
	PT DL 305/2007	curta duração	4 mg/m ³	Fração respirável

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PL

Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
Calcium Hydroxide	PL NDS	NDS	2 mg/m ³	frakcja wdychana
	PL NDS	NDS	1 mg/m ³	frakcja respirabilna
	PL NDS	NDSch	6 mg/m ³	frakcja wdychana
	PL NDS	NDSch	4 mg/m ³	frakcja respirabilna

NO

Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
Calcium Hydroxide	FOR-2011-12-06-1358	GV	1 mg/m ³	respirabelt støv
	FOR-2011-12-06-1358	S	4 mg/m ³	respirabelt støv

NL

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Calcium Hydroxide	NL WG	TGG-8 uur	1 mg/m ³	Respirabel
	NL WG	TGG-15 min	4 mg/m ³	Respirabel

MT

Components	Basis	Value	Control parameters	Note
Calcium Hydroxide	MT OEL	TWA	1 mg/m ³	Respirable fraction
	MT OEL	STEL	4 ppm,	Respirable fraction

MK

Съставки	Основа	Стойност	Параметри на контрол	Бележка
Calcium Hydroxide	MK OEL	MV	5 mg/m ³	Inhalable fraction - the part of the total suspended material that is inhaled by the employees

LV

Sastāvdaļas	Bāze	Vērtība	Kontroles parametri	Piezīme
Calcium Hydroxide	LV OEL	AER 8 st	1 mg/m ³	Frakcija, kas var nonākt elpceļos
	LV OEL	AER īslaicīgā	6 mg/m ³	Frakcija, kas var nonākt elpceļos

LU

Composants	Base	Valeur	Paramètres de contrôle	Note
Calcium Hydroxide	LU OEL	TWA	1 mg/m ³	Fraction alvéolaire
	LU OEL	STEL	4 mg/m ³	Fraction alvéolaire

LT

Komponentai	Šaltinis	Vertė	Kontrolės parametrai	Pastaba
Calcium Hydroxide	LT OEL	IPRD	1 mg/m ³	O, alveolinė frakcija
	LT OEL	TPRD	4 mg/m ³	O, alveolinė frakcija

O pateikimas per nepažeistą odą

IT

Componenti	Base	Valore	Parametri di controllo	Nota
Calcium Hydroxide	IT VLEP	TWA	1 mg/m ³	Frazione respirabile
	IT VLEP	STEL	4 mg/m ³	Frazione respirabile

IS

Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
Calcium Hydroxide	IS OEL	TWA	1 mg/m ³	Respirable fraction
	IS OEL	STEL	4 mg/m ³	Respirable fraction

IE

Components	Basis	Value	Control parameters	Note
Calcium Hydroxide	IE OEL	OELV - 8 hrs (TWA)	1 mg/m ³	respirable
	IE OEL	OELV - 15 min (STEL)	4 mg/m ³	respirable

HU

Komponensek	Bázis	Érték	Ellenőrzési paraméterek	Megjegyzés
Calcium Hydroxide	HU OEL	AK-érték	1 mg/m ³	EU4, N, respirabilis por
	HU OEL	CK-érték	4 mg/m ³	EU4, N, respirabilis por

EU4 2017/164 EU irányelvben közölt érték

N Irritáló anyagok, egyszerű főttógázok, csekély egészségkárosító hatással bíró anyagok. Korrekció NEM szükséges.

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HR

Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
Calcium Hydroxide	HR OEL	GVI	1 mg/m3	respirabilna prašina
	HR OEL	KGVI	4 mg/m3	respirabilna prašina

GR

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Calcium Hydroxide	GR OEL	TWA	1 mg/m3	Αναπνεύσιμο κλάσμα
	GR OEL	STEL	4 mg/m3	Αναπνεύσιμο κλάσμα

GB

Components	Basis	Value	Control parameters	Note
Calcium Hydroxide	GB EH40	TWA	5 mg/m3	
	GB EH40	TWA	1 mg/m3	Respirable fraction
	GB EH40	STEL	4 mg/m3	Respirable fraction

FR

Composants	Base	Valeur	Paramètres de contrôle	Note
Calcium Hydroxide	FR VLE	VME	1 mg/m3	Valeurs limites indicatives, Fraction alvéolaire
	FR VLE	VLCT (VLE)	4 mg/m3	Valeurs limites indicatives, Fraction alvéolaire

Valeurs limites
indicatives

Valeurs limites indicatives
indicatives

FI

Aineosat	Peruste	Arvo	Valvontaa koskevat muuttujat	Huomautus
Calcium Hydroxide	FI OEL	HTP-arvot 8h	1 mg/m3	
	FI OEL	HTP-arvot 15 min	4 mg/m3	

ES

Componentes	Base	Valor	Parámetros de control	Nota
Calcium Hydroxide	ES VLA	VLA-ED	1 mg/m3	fracción respirable
	ES VLA	VLA-EC	4 mg/m3	fracción respirable

EE

Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
Calcium Hydroxide	EE OEL	Piirnorm	1 mg/m3	
	EE OEL	Lühiajalise kokkupuute piirnorm	4 mg/m3	

DK

Komponenter	Basis	Værdi	Kontrolparametre	Note
Calcium Hydroxide	DK OEL	GV	5 mg/m3	
	DK OEL	GV	1 mg/m3	respirabel fraktion

DE

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Calcium Hydroxide	DE TRGS 900	AGW	1 mg/m3	Y, Einatembare Fraktion

Y Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden

CZ

Složky	Základ	Hodnota	Kontrolní parametry	Poznámka
Calcium Hydroxide	CZ OEL	PEL	1 mg/m3	I, dýmy, respirabilní frakce aerosolu
	CZ OEL	NPK-P	4 mg/m3	I, dýmy, respirabilní frakce aerosolu

I dráždí sliznice (oči, dýchací cesty), respektive kůži

CY

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Calcium Hydroxide	CY OEL	TWA	1 mg/m3	Αναπνεύσιμο κλάσμα
	CY OEL	STEL	4 mg/m3	Αναπνεύσιμο κλάσμα

CH

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Calcium Hydroxide	CH SUVA	MAK-Wert	1 mg/m3	NIOSH, SSc, einatembarer Staub
	CH SUVA	KZGW	4 mg/m3	NIOSH, SSc, einatembarer Staub

NIOSH National Institute for Occupational Safety and Health

SSc Eine Schädigung der Leibesfrucht braucht bei Einhaltung des MAK-Wertes nicht befürchtet zu werden.

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BG

Съставки	Основа	Стойност	Параметри на контрол	Бележка
Calcium Hydroxide	BG OEL	TWA	1 mg/m ³	Респирабилна
	BG OEL	STEL	4 mg/m ³	Респирабилна

BE

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Calcium Hydroxide	BE OEL	TGG 8 hr	1 mg/m ³	inadembare fractie
	BE OEL	TGG 15 min	4 mg/m ³	inadembare fractie

AT

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Calcium Hydroxide	AT OEL	MAK-TMW	1 mg/m ³	einatembare Fraktion
	AT OEL	MAK-KZW	4 mg/m ³	einatembare Fraktion

8.2**Exposure controls
Engineering measures**

Adequate ventilation to control airborne 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 : If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as: Full-Face Air-Purifying Respirator for Organic Vapors, Dusts and Mists. A positive pressure, air-supplying respirator may be appropriate 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.

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 : When using do not eat or drink. When using do not smoke.

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Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties**9.1****Information on basic physical and chemical properties****Appearance**

Form	: Powder
Physical state	: solid
Color	: Brown
Odor	: 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
pH	: 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/cm ³
Water solubility	: partly soluble
Partition coefficient: n-octanol/water	: Not applicable
Solubility in other solvents	: Not applicable
Viscosity, kinematic	: No data available
Relative vapor density	: Not applicable
Evaporation rate	: Not applicable

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SECTION 10: Stability and reactivity**10.1**

Reactivity : Stable at normal ambient temperature and pressure.

10.2

Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3**Possibility of hazardous reactions**

Hazardous reactions : Further information: No decomposition if stored and applied as directed.

10.4

Conditions to avoid : Generation of Dusts.

10.5

Materials to avoid : No data available.

Thermal decomposition : Not applicable

10.6

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**11.1****Information on toxicological effects****Acute oral toxicity**

Calcium Hydroxide : LD50: 7.340 mg/kg
Species: Rat

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Skin irritation : May cause skin irritation and/or dermatitis.

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Eye irritation : May cause irreversible eye damage.

Specific Target Organ Toxicity (Single Exposure)

Calcium Hydroxide : Assessment: May cause respiratory irritation.

11.2**Information on other hazards****TRIBEX™ ERD Additive**

Further information : No data available.

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Endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information**12.1****Toxicity****Ecotoxicity effects
Toxicity to fish**

Calcium Hydroxide : LC50: 160 mg/l
Exposure time: 96 h
Species: *Gambusia affinis* (Fish, fresh water)
static test

12.2**Persistence and degradability**

Biodegradability : Taking into consideration the properties of several ingredients, the product is estimated not to be readily biodegradable according to OECD classification.

12.3**Bioaccumulative potential**

Elimination information (persistence and degradability)

Bioaccumulation : The product may be accumulated in organisms.

12.4**Mobility in soil**

Mobility : No data available

12.5**Results of PBT and vPvB assessment**

Results of PBT assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6**Endocrine disrupting properties**

Endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7**Other adverse effects**

Additional ecological : This material is not expected to be harmful to aquatic

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information organisms.

12.8**Additional Information****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**13.1****Waste treatment methods**

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**14.1 - 14.7****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)

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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.

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information**15.1****Safety, health and environmental regulations/legislation specific for the substance or mixture
National legislation**

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.2

Major Accident Hazard Legislation : ZEU_SEVES3 Update:
Not applicable

Notification status

Europe REACH	:	This product is in full compliance according to REACH regulation 1907/2006/EC.
Switzerland CH INV	:	Not in compliance with the inventory
United States of America (USA) TSCA	:	On or in compliance with the active portion of the TSCA inventory
Canada DSL	:	All components of this product are on the Canadian DSL
Australia AIIC	:	On the inventory, or in compliance with the inventory
New Zealand NZIoC	:	Not 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

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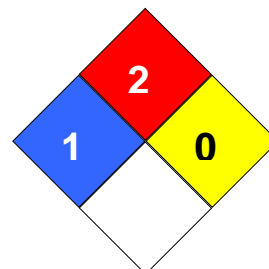
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themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

Philippines PICCS : Not in compliance with the inventory
 Taiwan TCSI : Not in compliance with the inventory
 China IECSC : Not in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 1
 Fire Hazard: 2
 Reactivity Hazard: 0

**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.

Key or legend to abbreviations and acronyms used 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

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			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

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.