

Precautionary Statements

- Prevention:** P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
- Response:** P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Supplemental label information

EUH208: Contains: organic Polysulphide, amine phosphate, Tolutriazole derivative. May produce an allergic reaction.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Lubricating grease: Thickener system and additives in solvent refined mineral oil.

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
carboxylic acid zinc salt	EINECS: 282-762-6	1,00 - <5,00%	01-2119988500-34	
organic Polysulphide	EINECS: 273-103-3	0,10 - <1,00%	01-2119540515-43	
amine phosphate	EINECS: 931-384-6	0,10 - <1,00%	01-2119493620-38	
Tolutriazole derivative	EINECS: 939-700-4	0,10 - <1,00%	01-2119982395-25	
alkenyl amine, long-chain	EC: 627-034-4	0,01 - <0,25%	01-2119473797-19	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Identifier	Classification
carboxylic acid zinc salt	EINECS: 282-762-6	CLP: Aquatic Chronic 3;H412, Skin Sens. 1;H317, Eye Irrit. 2;H319
organic Polysulphide	EINECS: 273-103-3	CLP: Skin Sens. 1B;H317, Aquatic Chronic 3;H412
amine phosphate	EINECS: 931-384-6	CLP: Eye Dam. 1;H318, Acute Tox. 4;H302, Skin Sens. 1;H317, Aquatic Chronic 2;H411
Tolutriazole derivative	EINECS: 939-700-4	CLP: Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Acute 1;H400, Aquatic Chronic 2;H411
alkenyl amine, long-chain	EC: 627-034-4	CLP: Acute Tox. 4;H302, Asp. Tox. 1;H304, STOT RE 3;H335, STOT RE 2;H373, Skin Corr. 1B;H314, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 10

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements refer to section 16.

Product name: CROMWELL EP 2 / SO GREASE

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation EC 1272/2008."

SECTION 4: First aid measures

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

Unsuitable extinguishing media: Water with a full water jet.

5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting procedures: Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Not required.

6.2 Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up: Scrape up spillage or absorb with absorbing material. Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

6.4 Reference to other sections: See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Provide adequate ventilation. Observe good industrial hygiene practices. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

7.2 Conditions for safe storage, including any incompatibilities: Local regulations concerning handling and storage of waterpolluting products have to be followed.

7.3 Specific end use(s): Not applicable

Storage Class: 11, Combustible solids

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

8.2 Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information:

Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

Eye/face protection:

Safety glasses (EN 166) recommended during refilling.

Skin protection

Hand Protection:

Material: Nitrile-butadiene rubber (NBR).
Min. Breakthrough time: ≥ 480 min
Recommended thickness of the material: $\geq 0,38$ mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Other:

Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

Respiratory Protection:

Not relevant, due to the form of the product.

Thermal hazards:

Not known.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: solid

Form: Paste

Color: Dark brown

Odor: Characteristic

Odor Threshold: Not applicable for mixtures

pH: Not applicable

Freezing point: > 180 °C

Boiling Point: > 250 °C

Flash Point: Value not relevant for classification

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)-: Value not relevant for classification

Flammability Limit - Lower (%)-: Value not relevant for classification

Vapor pressure: Not applicable for mixtures

Vapor density (air=1): Not applicable for mixtures

Density: 0,95 g/cm³ (15 °C)

Solubility(ies)

Solubility in Water: Insoluble in water

Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature: Value not relevant for classification

Decomposition Temperature: Value not relevant for classification

Flow time Value not relevant for classification

Explosive properties: Value not relevant for classification

Oxidizing properties: Value not relevant for classification

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Stable under normal use conditions.

10.3 Possibility of hazardous reactions: Stable under normal use conditions.

10.4 Conditions to avoid: Stable under normal use conditions.

10.5 Incompatible Materials: Strong oxidizing substances. Strong acids. Strong bases.

10.6 Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

organic Polysulphide

LD 50 (Rat): 6.500 mg/kg

Tolutriazole derivative

LD 50 (Rat, Female, Male): 3.313 mg/kg (OECD 401)

alkenyl amine, long-chain

LD 50 (Rat): > 300 - 2.000 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

carboxylic acid zinc salt

LC 50 (Rat, 4 h): > 42 mg/l

Skin Corrosion/Irritation:

Product:

Based on available data, the classification criteria are not met.

Specified substance(s)

Tolutriazole derivative

(Rabbit):
Irritating.

Serious Eye Damage/Eye Irritation:

Product:

Based on available data, the classification criteria are not met.

Specified substance(s)

Tolutriazole derivative

OECD 405 (Rabbit):
Not irritant.

Respiratory or Skin Sensitization:

Product:

Skin sensitizer: Based on available data, the classification criteria are met.
Respiratory sensitizer: Based on available data, the classification criteria are not met.

Specified substance(s)

Tolutriazole derivative

, OECD 406-1 (Guinea Pig)
sensitizing

Germ Cell Mutagenicity

Product:

Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Based on available data, the classification criteria are not met.

Reproductive toxicity

Product:

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product:

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product:

Based on available data, the classification criteria are not met.

Aspiration Hazard

Product: Based on available data, the classification criteria are not met.

Other adverse effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Product: Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

carboxylic acid zinc salt LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)

amine phosphate LC 50 (Fish, 96 h): 24 mg/l

Tolutriazole derivative LC 50 (Fish, 96 h): 1,3 mg/l (OECD 203)

alkenyl amine, long-chain LC 50 (Fish, 96 h): > 0,01 - 0,1 mg/l (OECD 203)

Aquatic Invertebrates

Specified substance(s)

carboxylic acid zinc salt EC 50 (Water Flea, 48 h): > 100 mg/l (OECD 202)

organic Polysulphide EC 50 (Water Flea, 48 h): 63 mg/l (OECD 202)

amine phosphate EC 50 (Water Flea, 48 h): 91,4 mg/l

Tolutriazole derivative EC 50 (Water Flea, 48 h): 2,05 mg/l (OECD 202)

alkenyl amine, long-chain EC 50 (Water Flea, 48 h): > 0,01 - 0,1 mg/l (OECD 202)

Chronic ToxicityProduct: Based on available data, the classification criteria are met.

Aquatic Invertebrates

Specified substance(s)

amine phosphate NOEC (Water Flea, 21 d): 0,12 mg/l

Toxicity to Aquatic Plants

Specified substance(s)

organic Polysulphide EC 50 (Alga, 72 h): > 101 mg/l (OECD 201)

amine phosphate EC 50 (Alga, 72 h): > 100 mg/l

Tolutriazole derivative EC 50 (Alga, 72 h): 0,976 mg/l (OECD 201)

alkenyl amine, long-chain EC 50 (Alga, 72 h): > 0,01 - 0,1 mg/l (OECD 201)

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

carboxylic acid zinc salt (OECD 301B) Not readily degradable.

organic Polysulphide 13 % (28 d, OECD 301B) Not readily degradable.

Tolutriazole derivative Not readily degradable.

12.3 Bioaccumulative potential

Product: Not applicable for mixtures

12.4 Mobility in soil:

Product: Not applicable for mixtures

12.5 Results of PBT and vPvB assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other adverse effects:

Harmful to aquatic life with long lasting effects.

Water Hazard Class (WGK):

WGK 2: significantly water-endangering.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:

Dispose in accordance with all applicable regulations.

Disposal methods:

Discharge, treatment, or disposal may be subject to national, state, or local laws.

European Waste Codes

12 01 12*: spent waxes and fats

SECTION 14: Transport information

ADR/RID

- 14.1 UN Number: —
- 14.2 UN Proper Shipping Name: —
- 14.3 Transport Hazard Class(es)
 - Class: Non-dangerous goods
 - Label(s): —
 - Hazard No. (ADR): —
 - Tunnel restriction code: —
- 14.4 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

ADN

- 14.1 UN Number: —
- 14.2 UN Proper Shipping Name: —
- 14.3 Transport Hazard Class(es)
 - Class: Non-dangerous goods
 - Label(s): —
- 14.3 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

IMDG

- 14.1 UN Number: —
- 14.2 UN Proper Shipping Name: —
- 14.3 Transport Hazard Class(es)
 - Class: Non-dangerous goods
 - Label(s): —
 - EmS No.: —
- 14.3 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

IATA

- 14.1 UN Number: -
- 14.2 Proper Shipping Name: -
- 14.3 Transport Hazard Class(es):
 - Class: Non-dangerous goods
 - Label(s): -
- 14.4 Packing Group: -
- 14.5 Environmental hazards: -
- 14.6 Special precautions for user: -

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Other information: The classification complies with the current EU lists; however, it has been supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the application of the conventional method.

Revision Date: 16.09.2019

Disclaimer:

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.