

# SAFETY DATA SHEET



Issue Date 27-Aug-2013

Revision date 03-Aug-2016

Version 1.01

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

### 1.1. Product identifier

Product code 15556-0105, -0204,-0402  
Product name UNIGRE ST 2

### 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Lubricant.  
Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

**Company Name**  
Luna AB  
441 80 Alingsås  
Sweden  
+46 (0)322 60 60 00  
For further information, please contact

**Supplier**  
Luna AB  
441 80 Alingsås Sweden  
+46 (0)322 60 60 00

**Contact Point** Luna Sverige AB  
**Email address** luna@luna.se  
**Company Phone Number** +46 (0)322 60 60 00

### 1.4. Emergency telephone number

Emergency telephone - §45 - (EC)1272/2008	
Europe	112
Czech Republic	+420 224 91 92 93/+420 224 91 54 02 (Poison Information)
Denmark	+45 82 12 12 12 (Poison Information)
Finland	+358 09 471 977 (Poison Information)
Latvia	+ 371 7042468 (Poison Information)
Lithuania	+370 5 236 20 52 (Poison Information)
Norway	+47 22 59 13 00 (Poison Information)
Poland	+48 426 314 502 (Poison Information)
Slovakia	+ 421 2 5465 2307 (Poison Information)
Sweden	+46 8 33 70 43 (Emergency Responce Center)
Estonia	+372 626 9390 (Poison Information)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]. Based on available data, the classification criteria are not met.

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS] Based on available data, the

classification criteria are not met.

**Signal Word**

None

**2.3. Other hazards**

No information available

### SECTION 3: Composition/information on ingredients

**3.1 Substances / 3.2 Mixtures**

Chemical name	EC No	CAS No	weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
zinc bis[O,O-bis(2-ethylhexyl)]bis(dithiophosphate)	224-235-5	4259-15-8	1-5%	Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	01-2119493635-27

Full text of H- and EUH-phrases: see section 16

### SECTION 4: First aid measures

**4.1. Description of first aid measures**

<b>General advice</b>	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
<b>Eye Contact</b>	Wash with plenty of water. If eye irritation persists: get medical advice/attention.
<b>Skin Contact</b>	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse.
<b>Ingestion</b>	Clean mouth with water. Do NOT induce vomiting. Potential for aspiration if swallowed. Get medical attention.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a physician.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms** None under normal use conditions.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### SECTION 5: Firefighting measures

**5.1. Extinguishing media**

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use CO<sub>2</sub>, dry chemical, or foam.

### **Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

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

#### **Special Hazard**

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Cool drums with water spray.

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protection recommended in Section 8.

Extremely slippery when spilled.

### **6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained.

### **6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### **6.4. Reference to other sections**

#### **Other information**

See Section 12: Ecological information.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Extremely slippery when spilled.

#### **General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage Conditions**

Store in a dry place. Store in a closed container. Protect from moisture.

### **7.3. Specific end use(s)**

**Specific use(s)**  
Lubricant.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Chemical name	Sweden	Denmark	Norway	Finland	Estonia
Oil mist/smoke	NGV 8 h: 1 mg/m <sup>3</sup> , KTV 15 min: 3 mg/m <sup>3</sup>	8h: 1 mg/m <sup>3</sup>	8h: 1 mg/m <sup>3</sup>	8h: 5 mg/m <sup>3</sup>	TWA 8h: 1 mg/m <sup>3</sup>
Chemical name	Latvia	Lithuania	Poland	Russia	Slovakia
Oil mist/smoke	8h: 5 mg/m <sup>3</sup>	IPRV 8h: 1 mg/m <sup>3</sup> , TPRV 15 min: 3 mg/m <sup>3</sup>	NDS: 8h: 5 mg/m <sup>3</sup> , NDSch, 15 min, 10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	8h: 5 mg/m <sup>3</sup>
Chemical name	Czech Republic	Germany	Hungary	Bulgaria	Ukraine
Oil mist/smoke	PEL: 5 mg/m <sup>3</sup> NPK-P: 10 mg/m <sup>3</sup>	-	-	-	-

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

**Engineering controls** None under normal use conditions.

#### Personal protective equipment

##### Eye/face Protection

Wear safety glasses with side shields (or goggles).

##### Hand protection

Wear protective nitrile rubber gloves, Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures). Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

##### Body protection

Wear suitable protective clothing.

##### Respiratory Protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required, In case of inadequate ventilation wear respiratory protection.

##### Recommended Filter type:

Gas filter A (organic substances, brown).

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Paste/Gel	<b>Odor</b>	No information available
<b>Appearance</b>	No information available	<b>Odor Threshold</b>	Not applicable
<b>Color</b>	Light Brown		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>		Not applicable	
<b>Melting Point/Freezing Point</b>		Not applicable	
<b>Boiling point/boiling range</b>		No information available	
<b>Flash Point</b>			
Flash point COC	>150 °C	ISO 2592	

Flash point PM		Not applicable
Evaporation Rate		Not applicable
Flammability (solid, gas)		Not applicable
Flammability Limits in Air		
Upper Flammability limits		Not applicable
Lower Flammability Limit		Not applicable
Vapor pressure @20°C (kPa)	< 0.01	
Vapor Density		Not applicable
Relative Density		No information available
Water Solubility	Negligible	
Solubility(ies)	Soluble in Solvent	
Partition Coefficient (n-octanol/water)	> 3	
Autoignition Temperature		No information available
Decomposition Temperature		No information available
Kinematic Viscosity		
Viscosity at 40°C Typical		No information available
Viscosity at 100°C Typical		No information available
Dynamic viscosity		No information available
Explosive Properties		Not applicable
Oxidizing Properties		Not applicable
 <b>9.2. Other information</b>		
Molecular Weight		No information available
VOC Content(%)		No information available
Density	950 kg/m <sup>3</sup>	No information available ISO 12185
Bulk density		No information available
Research Octane Number		Not applicable
Sulphur Content		Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not reactive.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

#### **Possibility of hazardous reactions**

None under normal processing.

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information. Used product can contain harmful contaminants.

**Acute toxicity**

**Inhalation** Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Eye Contact** May cause irritation. Based on available data, the classification criteria are not met.

**Skin Contact** Prolonged contact may cause redness and irritation. May cause skin irritation and/or dermatitis. Product that under high pressure has been forced under the skin, may cause serious cell damage/death under the skin.

**Ingestion** Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

**Chronic toxicity**

**Skin corrosion/irritation** None known.

**Serious eye damage/eye irritation** None known. Based on available data, the classification criteria are not met.

**Sensitization** None known.

**Germ cell mutagenicity** None known.

**Carcinogenicity** None known.

**Reproductive Toxicity** None known.

**Developmental toxicity** None known.

**Teratogenicity** None known.

**STOT - single exposure** None known.

**STOT - repeated exposure** None known.

**Neurological effects** None known.

**Target organ effects** None known.

**Aspiration hazard** None known.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Not harmful to aquatic organisms. Expected LC/EC 50 value >100 mg/l

Chemical name	Algae/aquatic plants	Fish	Crustacea
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	1.0 - 5.0: 96 h Pseudokirchneriella subcapitata mg/L EC50	1.0 - 5.0: 96 h Pimephales promelas mg/L LC50 static 10.0 - 35.0: 96 h Pimephales promelas mg/L LC50 semi-static	1 - 1.5: 48 h Daphnia magna mg/L EC50

**12.2. Persistence and degradability**

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Potentially degradable, but will persist in the environment for long periods.

### 12.3. Bioaccumulative potential

Contain components with potential to bioaccumulate (logPow >3).

### 12.4. Mobility in soil

#### **Mobility in soil**

After release, adsorbs onto soil.

### 12.5. Results of PBT and vBvP assessment

This product is not, or does not contain, a substance that is a PBT or a vBvP.

### 12.6. Other adverse effects

An oilfilm may cause physical damage to organisms and disturb the transportation of oxygen in the intermediate zone between air/water or air/soil

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### **Waste from Residues / Unused Products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Other information**

Provisions for waste transmitters:

Different types of hazardous waste shall not be mixed with each other. Wastes can be mixed if the purpose is to improve safety during disposal or recycling or otherwise is done in a manner acceptable to protect the environment. Waste may be transported professionally only by those who have special permission. Solvent and oil waste under certain given amounts may be transported without special permission, after notification to the County Board. Contact the County Board for further information.

Discharge Instructions:

Packs marked with a skull or environmental hazard symbol and risk phrase 50/53 should always be disposed of as hazardous waste. Other packs should be emptied well before they can be recycled or reconditioned. The contents may need to be disposed of as hazardous waste. Draining is best carried out at room temperature. The pack is placed upside down inclined somewhat, about 10 degrees, the runoff should be in such a way that the lowest point of the pack is the exit. Residual content should be collected and added to the process there the product is used. For steel drums especially the runoff must be at room temperature (min 15 ° C). Wait until the pack is drip dry. Do not reseal the packs after runoff. Note in particular the risks involved when emptying containers containing flammable liquids. Emptied packages should be ventilated in a safe place away from sparks and fire. Residues may cause an explosion. Do not puncture, cut or weld in uncleaned packages, containers or barrels. If possible, packs contained water-soluble product should be rinsed thoroughly (3 times) before emptying. The rinse water should, if possible, be used in the process there the product is used.

Classification of wastes:

Waste transmitters is required to classify the waste. All waste is identified by a six digit EWC code. The codes are listed in the Waste Regulation. The codes for oil waste are based on usage and the base oil. Information about the intended use is given in the safety data sheet, section 1. Oil waste is always hazardous waste. Examples of EWC codes for oil waste: 120107: mineral-based machining oils free of halogens 130111: Synthetic Hydraulic

Oils130105: Non-chlorinated emulsions130208: other engine, gear and lubricating oils

Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

### IMDG

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

### RID

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 environmental hazard	Not applicable
14.6 Special Provisions	None

### ADR

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 environmental hazard	Not applicable
14.6 Special Provisions	None

### ICAO (air)

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 environmental hazard	Not applicable
14.6 Special Provisions	None

### IATA

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 environmental hazard	Not applicable
14.6 Special Provisions	None

## SECTION 15: Regulatory information

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

#### National regulations

This safety data sheet is created with use of legislation & regulation valid for the European Union, for example consolidated versions of REACH, 1907/2006; CLP, 1272/2008; DPD 1999/45 and national legislation.



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Danish PR number: 1683422

## International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
IECSC	Complies
AICS	Complies
KECL	Complies

## Legend

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

## 15.2. Chemical safety assessment

No information available

## SECTION 16: Other information

### Full text of H-Statements referred to under section 3

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects

### Key or legend to abbreviations and acronyms used in the safety data sheet

vBvP = Very Bioaccumulative and very Pollutant.

PBT = Persistent Bioaccumulative Toxic chemical

REACH = Research Evaluation Authorization and Restriction of Chemicals

CLP = Classification, Labelling and Packaging

DPD = Dangerous Preparations Directive

VOC=Volatile Organic Compound

**Issue Date** 27-Aug-2013

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**Revision Note** Indication of changes \*\*\* , if applicable.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**End of Safety Data Sheet**