



## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

#### 1.1 Product identifier

**Product name:** RENOLIT LZR 2 H

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

**Identified uses:** Lubricating grease

**Uses advised against:** No uses advised against identified.

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

**Manufacturer / Supplier**

Fuchs Schmierstoffe GmbH  
Friesenheimer Str. 19  
68169 Mannheim

US Distributor

Fuchs Lubricants Co.  
17050 Lathrop Avenue  
Harvey, IL 60426  
(708) 333-8900  
(800) 255-3924 24 hrs Emergency

Telephone:

+49 621 3701-0 (ZENTRALE)

Fax:

+49 621 3701-570

**Contact Person:**

Telephone:

Fuchs Schmierstoffe GmbH Abteilung Produktsicherheit

Fax:

+49 621 3701-1333  
+49 621 3701-7303

E-mail:

produktsicherheit@fuchs-schmierstoffe.de

**1.4 Emergency telephone number:** +49 621 3701-1333 ODER +49 621 3701-0

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

**Classification according to Regulation (EC) No 1272/2008 as amended.**

**Environmental Hazards**

Chronic hazards to the aquatic  
environment

Category 3

H412: Harmful to aquatic life with long lasting  
effects.

**Hazard summary**

**Physical Hazards:**

No data available.

#### 2.2 Label Elements

**Product name:** RENOLIT LZR 2 H

**Hazard Statement(s):** H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statement**

**Prevention:** P273: Avoid release to the environment.

**Supplemental label information**

EUH208: Contains organic Polysulphide. 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	Concentration *	Identifier	REACH Registration No.	Notes
zinc hexanoate	0,10 - <1,00%	205-251-1		
organic Polysulphide	0,10 - <1,00%	273-103-3	01-2119540515-43	
aromatic phosphoric acid ester derivative	0,25 - <1,00%	Confidential	Confidential	
Carboxylic acid, middle chain, carboxylic acid	0,10 - <1,00%	205-743-6		
Phenolic antioxidant agent	0,10 - <0,25%	204-884-0	01-2119490822-33	
alkenyl amine, long-chain	0,01 - <0,25%	204-015-5		

\* 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.

**Product name:** RENOLIT LZR 2 H

## Classification

Chemical name	Classification	
zinc hexanoate	CLP:	Eye Irrit. 2;H319, Aquatic Chronic 3;H412, Repr. 2;H361
organic Polysulphide	CLP:	Skin Sens. 1B;H317, Aquatic Chronic 3;H412
aromatic phosphoric acid ester derivative	CLP:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410
Carboxylic acid, middle chain, carboxylic acid	CLP:	Repr. 2;H361d
Phenolic antioxidant agent	CLP:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Skin Irrit. 2;H315
alkenyl amine, long-chain	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

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to section 16.

## SECTION 4: First aid measures

**General:** Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into clothing pockets.

### 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. The product is not skin irritating.

**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

**Hazards:** No data available.

**Treatment:** Get medical attention if symptoms occur.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** CO<sub>2</sub>, 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.

**Product name:** RENOLIT LZR 2 H

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- 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:** No data available.
- 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. Stop the flow of material, if this is without risk. Dispose of the material collected according to regulations.
- 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

## 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

**Product name:** RENOLIT LZR 2 H

**Appropriate engineering controls:** Good general ventilation (typically 10 air changes per hour) should be used. 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:** Nitrile butyl rubber (NBR). 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:** No data available.

**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**

<b>Physical state:</b>	solid
<b>Form:</b>	Paste
<b>Color:</b>	Light brown
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	not applicable
<b>Melting Point:</b>	No data available.



**Product name:** RENOLIT LZR 2 H

<b>Boiling Point:</b>	not applicable
<b>Flash Point:</b>	not applicable
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%)—:</b>	No data available.
<b>Flammability Limit - Lower (%)—:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	0,90 g/cm <sup>3</sup> (25 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Insoluble in water
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>NLGI:</b>	2
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.
<b>9.2 Other information</b>	No data available.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Stable under normal temperature conditions and recommended use.
<b>10.2 Chemical Stability:</b>	No data available.
<b>10.3 Possibility of Hazardous Reactions:</b>	None under normal conditions.
<b>10.4 Conditions to Avoid:</b>	Avoid heat or contamination.
<b>10.5 Incompatible Materials:</b>	Strong oxidizing substances. Strong acids. Strong bases.
<b>10.6 Hazardous Decomposition Products:</b>	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.

**Product name:** RENOLIT LZR 2 H

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**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	LD 50 (Rat): 6.500 mg/kg
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	LD 50 (Rat): 3.640 mg/kg
Phenolic antioxidant agent	LD 50 (Rat): > 2.001 mg/kg
alkenyl amine, long-chain	No data available.

**Dermal**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	LD 50 (Rabbit): > 2.001 mg/kg
Phenolic antioxidant agent	LD 50 (Rabbit): > 1.001 mg/kg
alkenyl amine, long-chain	No data available.

**Inhalation**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**Product name:** RENOLIT LZR 2 H

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**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**Skin Corrosion/Irritation:**

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**Serious Eye Damage/Eye Irritation:**

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.



**Product name:** RENOLIT LZR 2 H

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**Respiratory or Skin Sensitization:**

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**In vivo**

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

**Product name:** RENOLIT LZR 2 H

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zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**Aspiration Hazard**

**Product name:** RENOLIT LZR 2 H

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**Other Adverse Effects:** No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Acute toxicity

##### Fish

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	LC 50 (Fish, 96 h): 0,8 mg/l
Carboxylic acid, middle chain, carboxylic acid	LC 50 (Fish, 96 h): > 250 mg/l
Phenolic antioxidant agent	LC 50 (Fish, 96 h): 0,11 mg/l
alkenyl amine, long-chain	LC 50 (Fish, 96 h): 0,11 mg/l

##### Aquatic Invertebrates

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	EC 50 (Water Flea, 48 h): 63 mg/l (OECD 202)
aromatic phosphoric acid ester derivative	EC 50 (Water Flea, 48 h): 0,202 mg/l
Carboxylic acid, middle chain, carboxylic acid	EC 50 (Water Flea, 48 h): 85,4 mg/l
Phenolic antioxidant agent	EC 50 (Water Flea, 48 h): 0,45 mg/l
alkenyl amine, long-chain	EC 50 (Water Flea, 48 h): 0,011 mg/l

#### Chronic Toxicity

##### Fish

**Product name:** RENOLIT LZR 2 H

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**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s)**

zinc hexanoate	No data available.
organic Polysulphide	EC 50 (Alga, 72 h): > 101 mg/l (OECD 201)
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	EC 50 (Alga, 72 h): 61 mg/l
Phenolic antioxidant agent	EC 50 (Alga, 72 h): 3,6 mg/l
alkenyl amine, long-chain	No data available.

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s)**

**Product name:** RENOLIT LZR 2 H

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zinc hexanoate	No data available.
organic Polysulphide	13 % (28 d, OECD 301B) Not readily degradable.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

### 12.3 Bioaccumulative Potential

**Product:** No data available.

#### Specified substance(s)

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**12.4 Mobility in Soil:** No data available.

#### Known or predicted distribution to environmental compartments

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**12.5 Results of PBT and vPvB assessment:** No data available.

zinc hexanoate	No data available.
organic Polysulphide	No data available.
aromatic phosphoric acid ester derivative	No data available.
Carboxylic acid, middle chain, carboxylic acid	No data available.
Phenolic antioxidant agent	No data available.
alkenyl amine, long-chain	No data available.

**12.6 Other Adverse Effects:** Harmful to aquatic life with long lasting effects.

Product name: RENOLIT LZR 2 H

## 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: —

**Product name:** RENOLIT LZR 2 H

#### 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 MARPOL73/78 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.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.

**Training information:** Follow training instructions when handling this material.

**Other information:** The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier

**Product name:** RENOLIT LZR 2 H

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companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

**Revision Date:**

14.07.2015

**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.