



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

## Eni metalStanz ST 80 HEP

Material number 970

Revision date: 12.10.2023

Version: 3.2

Replaces version: 3.1

Language: en-DE

Date of print: 8.11.2023

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

#### 1.1 Product identifier

Trade name: Eni metalStanz ST 80 HEP

UFI: S740-Y0N1-P004-7AQ2

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

General use: Lubricating agent, Parting agent.

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

Company name: Eni Schmiertechnik GmbH

Street/POB-No.: Paradiesstraße 14

Postal Code, city: 97080 Würzburg

Germany

WWW: [www.enischmiertechnik.de](http://www.enischmiertechnik.de)

E-mail: [info.wuerzburg@eni.com](mailto:info.wuerzburg@eni.com)

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Application Engineering & Product Management (AEPM)

Telephone: +49 (0)931-90098-0

E-mail: [technik.wuerzburg@eni.com](mailto:technik.wuerzburg@eni.com)

#### 1.4 Emergency telephone number

**GIZ-Nord, Göttingen**

**Telephone: +49 (0)551-19240**

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to EC regulation 1272/2008 (CLP)

Skin Sens. 1; H317 May cause an allergic skin reaction.

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (CLP)



Signal word:

**Warning**

Hazard statements:

H317

May cause an allergic skin reaction.

H412

Harmful to aquatic life with long lasting effects.



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Precautionary statements:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P261	Avoid breathing mist/vapours/spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection.
	P302+P352	IF ON SKIN: Wash with plenty of water/soap.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P501	Dispose of contents/container to hazardous or special waste collection point.

### Special labelling

Text for labelling: Contains Polysulfides, di-tert-dodecyl

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions:

Hazardous ingredients:

Identifiers	Designation Classification	Content
EC No. 224-235-5 CAS 4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) Skin Irrit. 2; H315. Aquatic Chronic 2; H411.	< 10 %
REACH 01-2119540516-41-xxxx EC No. 270-335-7 CAS 68425-15-0	Polysulfides, di-tert-dodecyl Skin Sens. 1B; H317.	1 - 5 %
REACH 01-2119487077-29-xxxx EC No. 265-158-7 CAS 64742-55-8	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1; H304.	1 - 5 %

Full text of H- and EUH-statements: see section 16.

Additional information: Information about Distillates (petroleum), hydrotreated light paraffinic:  
Contains: < 3% DMSO-extract (IP 346)

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information:	If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse. If unconscious place in recovery position and seek medical advice. Put victim at rest, cover with a blanket and keep warm. In the event of cardiac arrest immediately perform cardiopulmonary resuscitation.
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical treatment in case of troubles.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.



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After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical treatment in case of troubles. Observe risk of aspiration if vomiting occurs.

### 4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.  
respiratory complaints, headache, discomfort, dizziness.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.  
Symptoms can occur only after several hours.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: extinguishing powder, sand, foam, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Water

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

May form dangerous gases and vapours in case of fire.  
Furthermore, there may develop: nitrogen oxides, Carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Do not inhale explosion and combustion gases. Cool exposed containers with water spray, but avoid contact of the substance with water. Move undamaged containers from immediate hazard area if it can be done safely.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

Do not breathe mist/vapours/spray. Avoid contact with the substance.

If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Keep unprotected people away.

Take off contaminated clothing and wash it before reuse.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. If necessary notify appropriate authorities.

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

Wipe up with absorbent material (eg. cloth, fleece). Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Never return spills in original containers for re-use.

Clean contaminated articles and floor according to the environmental legislation. Retain contaminated washing water and dispose it.

Additional information:

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### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe mist/vapours/spray. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Do not get in eyes, on skin, or on clothing. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. When handling larger quantities, take precautionary measures against electrostatic charging.

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

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in the original container. Protect from heat and direct sunlight. Protect from frost. Store containers in upright position. Recommended storage temperature: 5-40 °C. Maximum storage period (time): 24 months.

Hints on joint storage:

keep away from oxidizing agents, acids. Keep away from food, drink and animal feedingstuffs.

Storage class:

10 = Combustible liquids, unless storage class 3

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	Germany: DFG Kurzzeit	0,4 mg/m <sup>3</sup> (compounds, inorganic; respirable fraction)
		Germany: DFG Kurzzeit	4 mg/m <sup>3</sup> (compounds, inorganic; inhalable fraction)
		Germany: DFG Langzeit	0,1 mg/m <sup>3</sup> (compounds, inorganic; respirable fraction)
		Germany: DFG Langzeit	2 mg/m <sup>3</sup> (compounds, inorganic; inhalable fraction)
68425-15-0	Polysulfides, di-tert-dodecyl	Germany: TRGS 900 Kurzzeit	20 mg/m <sup>3</sup> (respirable fraction)
		Germany: TRGS 900 Langzeit	5 mg/m <sup>3</sup> (respirable fraction)



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**DNEL/DMEL:** Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):  
DNEL workers, long-term, systemic, inhalative: 6,6 mg/m<sup>3</sup>  
DNEL workers, long-term, systemic, dermal: 9,6 mg/kg bw/d  
DNEL consumers, long-term, systemic, inhalative: 1,67 mg/m<sup>3</sup>  
DNEL consumers, long-term, systemic, dermal: 4,8 mg/kg bw/d  
DNEL consumers, long-term, systemic, oral: 0,19 mg/kg bw/d

**PNEC:** Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):  
PNEC water (freshwater): 4 µg/L  
PNEC water (marine water): 4,6 µg/L  
PNEC sediment (freshwater): 0,322 mg/kg  
PNEC sediment (marine water): 0,032 mg/kg  
PNEC sewage treatment plant: 3,8 mg/L  
PNEC soil: 0,062 mg/kg  
PNEC water (freshwater) intermittent release: 44 µg/L  
Information about Polysulfides, di-tert-dodecyl:  
PNEC sediment (freshwater): 3,85 mg/kg  
PNEC sediment (marine water): 0,385 mg/kg  
PNEC sewage treatment plant: 1 mg/L

## 8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

## Personal protection equipment

### Occupational exposure controls

**Respiratory protection:** In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded. Use combination filter type A/P3 according to EN 14387.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Hand protection:** Protective gloves according to DIN EN 374.  
Glove material: nitrile rubber.  
Layer thickness: 0,12 mm. penetration time: > 240 min.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.  
Unsuitable material: Butyl caoutchouc (butyl rubber), Chloroprene rubber, natural rubber.

**Eye protection:** Tightly sealed goggles according to DIN EN ISO 16321-1:2022.

**Body protection:** Wear suitable protective clothing.

**General protection and hygiene measures:**  
Do not breathe mist/vapours/spray. Take off contaminated clothing and wash it before reuse.  
Do not get in eyes, on skin, or on clothing.  
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.  
Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

## Environmental exposure controls

Refer to "6.2 Environmental precautions".

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	brown
Odour:	Characteristic
Odour threshold:	No data available



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Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	200 °C
Decomposition temperature:	No data available
pH:	No data available
Viscosity, kinematic:	at 40 °C: 121 mm <sup>2</sup> /s
Solubility:	No data available
Partition coefficient: n-octanol/water:	at 22 °C: 3,59 log K(o/w) (Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Vapour pressure:	No data available
Density:	at 20 °C: 0,95 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable
<b>9.2 Other information</b>	
Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Evaporation rate:	No data available
Additional information:	No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.  
Protect from direct sunlight.  
Protect from moisture contamination. Protect from frost.

### 10.5 Incompatible materials

Oxidizing agents, acids

### 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.  
Thermal decomposition: No data available



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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.  
May be harmful if inhaled.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

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

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

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

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

#### 11.2 Information on other hazards

Endocrine disrupting properties: No data available

Other information: Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):  
LD50, Rat, oral: 3.100 mg/kg  
LD50, Rabbit, dermal: > 5.000 mg/kg

Information about Polysulfides, di-tert-dodecyl:  
LD50, Rat, oral: > 2.500 mg/kg  
LD50, Rat, dermal: > 2.000 mg/kg

Information about Distillates (petroleum), hydrotreated light paraffinic:  
LD50, Rat, oral: > 5.000 mg/kg  
LD50, Rabbit, dermal: > 5.000 mg/kg  
ATE inhalative: 2,18 mg/L/4h (dust/mist)

#### Symptoms

respiratory complaints, headache, discomfort, dizziness.



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## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.  
Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):  
Fish toxicity:  
LL50 Oncorhynchus mykiss: 4,4 mg/L/96h  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): 75 mg/L/48h  
Algae toxicity:  
EL50 Desmodesmus subspicatus (green algae): 410 mg/L/72h  
toxicity to microorganisms  
EC50 Pseudomonas putida: 380 mg/L/16h

Water Hazard Class: 2 = obviously hazardous to water

### 12.2 Persistence and degradability

Further details: Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):  
Biodegradability: < 5%/5 d  
Information about Polysulfides, di-tert-dodecyl:  
Biodegradability: 0%/28 d

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
at 22 °C: 3,59 log K(o/w) (Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate))  
Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

General information: Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 13 02 08\* = other engine, gear and lubricating oils  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation. Do not allow to enter into ground-water, surface water or drains.

#### Package

Waste key number: 15 01 10\* = packaging containing residues of or contaminated by dangerous substances  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.



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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR: not applicable

ADN: ID 9006

#### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

ADN: ID 9006, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

#### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: not applicable

ADN: Class 9, Code: M12

#### 14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

#### 14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG: no

#### 14.6 Special precautions for user

##### Inland waterway craft (ADN)

Hazard label:

-

Transport permitted:

T

Equipment necessary:

PP

#### 14.7 Maritime transport in bulk according to IMO instruments

No data available

### SECTION 15: Regulatory information

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

##### National regulations - Germany

Storage class: 10 = Combustible liquids, unless storage class 3

Water Hazard Class: 2 = obviously hazardous to water

Technical guidance air: 5.2.5

Information on working limitations:

Observe employment restrictions for young people.

Further regulations, limitations and legal requirements:

The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

##### National regulations - EC member states

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3, 75

#### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.



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### SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H304 = May be fatal if swallowed and enters airways.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H411 = Toxic to aquatic life with long lasting effects.

H412 = Harmful to aquatic life with long lasting effects.

Reason of change: Changes in section 8: Occupational exposure limit values  
Changes in section 8: Occupational exposure limit values

Date of first version: 25.3.2022

Department issuing data sheet: see section 1: Department responsible for information

Abbreviations and acronyms: ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
Aquatic Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
Asp. Tox.: Aspiration toxicity  
ATE: Acute toxicity estimate  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EC50: Effective Concentration 50%  
EL50: Effective loading rate 50%  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LD50: Lethal dose 50%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Irrit.: Skin irritation  
Skin Sens.: Skin sensitisation  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at  
<http://sumdat.net/20p9rit>

