

Trade name: DURO Natural Rust Preventive Primer
Revision date: 12.11.2013
Print date: 25.08.14

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: DURO Natural Rust Preventive Primer
Article number: 623

1.2. Relevant identified use

For interior and exterior use on steel and iron.

1.3. Details of the supplier of the safety data sheet

Manufacturer:

LIVOS Pflanzenchemie GmbH & Co KG
Auengrund 10
D – 29559 Wrestedt
Email: info@livos.de

Information contact: LIVOS +49 (0)5825-88-0

1.4. Emergency Telephone Number:

+49 (0)30-30686-717 (Advice centre for poisoning, Berlin, 24h, German and English)

2. Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 [CLP/GHS]

Acut. Aquat. TOX. 1, H400; Chron. Aquat. TOX. 1 H410

Classification according to 67/548/EEC or 1999/45/EC

N, R50/53

2.2. Label elements



GHS 09

Signal word: Danger

Not applicable.

Hazardous components for labelling

Isoaliphates

Hazard statements

H 400 Very toxic to aquatic life
H 410 Very toxic to aquatic life with long lasting effects

Precautionary statements

P 102 Keep out of reach of children.
P 331 Do NOT induce vomiting.
P 273 Avoid release to the environment.
P 391 Collect spillage
P 501 Dispose of contents/ container according to official regulations as hazardous waste.

2.3. Other hazards

Contains limonene, Cobalt(2+)-salts. Can cause allergic reactions. Can cause lung damage if swallowed. At increased temperatures the liquid can evaporate and develop explosive mixtures at or above the flash point. See also point 9.

Due to the degreasing effect of the solvent prolonged or repeated skin contact may result in dermatitis (skin inflammation).

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3. Composition/information on ingredients

3.1. Substances

This product is a mixture.

3.2. Mixtures

Description: Preparation of linseed oil - stand oil - natural resin ester, Isoaliphates, castor oil – stand oil, chalk, zinc phosphate, mica, talcum, mineral pigments, titan dioxide, silicic acid, soy lecithin, citron oil, orange oil, dehydrated amino sugar, and drying agents free of lead (Ca, Co, Zr).

Hazardous ingredients

ISOALKANES; CAS-No.: 90622-58-5, EINECS: 918-167-1

Reg.nr.: 01-2119472146-99

Percent: 11-50 %

Classification according to 1272/2008/EC: Asp. 1, H304; Aqu.chron.4, H413;

Classification according to 67/548/EEC: Xn, R65,66; R53;

ZINC PHOSPHATE; CAS-No.: 7779-90-0, EINECS: 231-944-3

Percent: 11-50 %

Classification according to 1272/2008/EC: Aqua. Acu. 1, H400; Aqu.chron.1, H410;

Classification according to 67/548/EEC: N R50, R35

4. First aid measures

4.1. Description of first aid measures

General information:

Remove clothing contaminated by the product, immediately.

In case of inhalation:

Provide fresh air. Keep affected person still. Consult a physician if problems persist.

In case of skin contact:

Wash the skin area with water and soap.

In case of eye contact:

Flush immediately and thoroughly with plenty of water until the irritation diminishes. In case of persistent eye irritation, visit your optician.

In case of ingestion:

Do NOT induce vomiting. Keep affected person still and consult a physician.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam, Extinguishing powder, Carbon dioxide, Water mist.

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire, formation of carbon monoxide, carbon dioxide. Formation of phosphorous oxides and zinc oxide is possible.

5.3. Advice for fire-fighters

Use suitable breathing apparatus (compressed air breathing apparatus).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep public away. Provide enough ventilation.

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6.2. Environmental precautions:

Do not allow to enter in water bodies or drains. Avoid contact with soil.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

7. Handling and storage

7.1. Precautions for safe handling

Protective measures

Keep container tightly closed. Provide good ventilation / suction at the workstation.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Store cool and dry. Protect against heat and direct exposure to the sun.

Requirements for storage rooms and vessels:

Make sure that the floor is solvent resistant and properly sealed.

Hints on storage assembly:

Do not store together with oxidizing agents. Keep away from acids and lyes.

7.3. Further information

Not applicable.

8. Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

ISOALKANES; CAS-No.: 90622-58-5

Specification: TRGS 900, Nr. 2,9

Value: 600 mg/m³ (Occupational exposure limit value (AGW) Germany)

ZINC PHOSPHATE; CAS-No.: 7779-90-0

Specification: 8hr TWA inhalable dust

Value: 10 mg/m³ (LTEL)

8.2. Exposure controls

Recommended methods of analysis for job measurements: See series of publications of the Federal Institution for industrial safety and industrial medicine (BAuA)"dangerous working materials" (GA 13)

Appropriate engineering controls

No further information. See also section 7.

8.3. Personal protection equipment

Observe the usual precautions for handling chemicals: Avoid contact with skin and eyes. Keep away from foodstuffs, beverages and feed. When using do not eat and drink and smoke.

Respiratory protection

Should the room air concentrations exceed the abovementioned approximate value, despite technical precautionary measures, take actions for extraction or similar, otherwise wear respiratory protection, e.g. filter half mask, Gas filter A1 (brown) to 1000 mg / m³. Gas Filter A2 (brown) to 5000mg / m³. Gas filter A3 (brown) to 10000 mg / m³.

Hand protection

Wear protective gloves according to EN 374. Suitable material: nitriles rubber. Layer thickness of 0.1 mm.

Breakthrough time of the glove material >30 min..

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Eye protection

Safety glasses with side protection according to EN 166:2001, especially when decanting.

Protective clothing for the body

Not applicable.

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

Physical state: liquid (thick)
Color: different colors
Odor: mild

Security related information

Risk of explosion: no
Explosion limits:
Lower: n.a.
Upper: n.a.
Vapour pressure at 20°C: n.a.
Density at 20°C: appr. 1.44 – 1.50 g/ml depending on the color
Viscosity at 20°C: appr. 12dPas
Water solubility: insoluble
pH-value: n.a.
Melting point / range: n.a.
Boiling temperature / boiling range: n.a.
Flash point: > 61°C
Ignition temperature: > 200 °C

10. Stability and reactivity**10.1. Reactivity****10.2. Chemical stability**

The product is chemically stable under normal ambient conditions.

10.3. Thermal decomposition / conditions to avoid

No decomposition when used as directed.

Avoid: heat, flames, sparks

10.4. Possibility of hazardous reactions

When used as directed no hazardous reactions are expected.

10.5. Incompatible materials

Strong oxidizing agents

Strong acids

10.6. Hazardous decomposition products

In case of fire, formation of carbon monoxide CO, carbon dioxide CO₂. Formation of phosphorous oxides and zinc oxide is possible.

11. Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

<i>Component:</i>	<i>CAS</i>	<i>Type</i>	<i>Value</i>	<i>Species</i>
Hydrocarbon mixture C11-12	90622-58-5	LD 50, OECD 401	oral >5000 mg/kg	Rat
Hydrocarbon mixture C11-12	90622-58-5	LD 50, OECD 402	dermal >5000 mg/kg	Rabbit
Zinc phosphate	7779-90-0	LD 50	orall >5000 mg/kg	Rat

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In case of inhalation:

Steam concentrations above the recommended workplace value cause irritation to the eyes and respiratory system. Headaches, dizziness and disturbances of the central nervous system can likewise be caused.

In case of skin contact:

Little toxic effect. Frequent or persisting skin contact can degrease and drain the skin, which can lead to skin disorders and inflammations (Dermatitis).

In case of eye contact:

Causes light eye complaints, however no damage of the eye fabric.

In case of ingestion:

Smaller quantities, which enter into the lungs through swallowing and subsequent vomiting, can lead to a pulmonary edema or to pneumonia.

Practical experience:

Because of the general experience, the scientific literature and the legal regulations is there under adherence to the instructions for use, no health endangerment to be expected. Watch out for possible allergic reactions to particular agents.

12. Ecological information**12.1. Toxicity****Aquatic toxicity:**

Fish: LC (50)(96h) 0.14 – 0.26mg Zn 2+ / L

Crustaceans: EC (50) (48h) 0.04 – 0.86 mg Zn 2+/L

Algae: EC (50) (72h) 0.136 – 0.150 mgZn 2+/L

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

Floats on water. Bioaccumulation possible.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

No further relevant information available.

12.6. General information:

Do not allow to enter groundwater, water bodies or drains. Very toxic for water organism.

13. Disposal considerations**13.1. Waste treatment methods:**

The following advice relates to the product that has been left on and not on further processed products.

When mixed with other products, other disposal methods may be required.

Recommendations

Dispose as hazardous waste according to applicable local, state, and federal regulations.

Waste code

08 01 11 Paint and varnish waste containing organic solvents or other dangerous substances

Packaging

Contaminated packaging must be completely empty and properly cleaned before it can be re-cycled.

14. Transport information**14.1. UN number**

3077

14.2. UN proper shipping name

ADR/RID / IMDG / ICAO / IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (TRIZINCBIS ORTHOPHOSPHATE) 2-4 H20

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14.3. Transport hazard class(es)

ADR/RID / IMDG / ICAO / IATA

Class: 9

14.4. Packing group

ADR/RID / IMDG / ICAO / IATA

III

14.5. Environmental hazards

Environmentally hazardous substances:

ADR / RID / IMDG-Code: F-A, S-F (EMS-Number)

ICAO-TI / IATA-DGR: not classified

14.6. Special precautions for user

See section 6 – 8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is sold only in traffic legally, permitted and appropriate packaging.

15. Regulatory information

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

EU – regulations

Verordnung (EG) Nr. 648/2004 (detergents):

Not applicable

National regulations (Germany)

Restrictions of occupation:

Restrictions of occupation for children and adolescents according 45/33/EC and relevant national regulations have to be considered.

Water Endangerment class

WGK 2 (German Water Hazards Classes, self-classification): hazardous to water.

Solvent regulation (31. BImSchV)

VOC-Content: 245- 264 g/l

15.2. Chemical safety assessment

The mixture did not undergo a safety assessment.

16. Other information

Key literature references and sources of data

Internet

<http://www.baua.de>

Exact wording of the R-phrases mentioned under Point 2 and 3

According to regulation (EC) No. 1272/2008:

H 400 Very toxic to aquatic life
H 410 Very toxic to aquatic life with long lasting effects
H 304 May be fatal if swallowed and enters airways
H 413 May cause long lasting harmful effects to aquatic life

According to regulation (EEC) No. 67/548:

R 53 May cause long-term adverse effects in the aquatic environment.
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 66 Repeated exposure may cause skin dryness or cracking.
R 65 Harmful: may cause lung damage if swallowed.

Safety Data Sheet according to Regulation (EC) No 1907/2006

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Data Sheet issued by:

Department: Product safety

The information described in this datasheet refers exclusively to the characteristics and safety requirements of this particular product. They cannot apply however any longer, if the product is mixed with other materials or is used during a different process. The statements correspond to our knowledge and experiences at the indicated time. However, no guarantee for soundness, reliability and completeness is given. The user must make sure of all the facts, so that all specifications for his respective use are suitable and complete.