

Safety data sheet according to 91/155/EEC

HEMPEL (GERMANY) GmbH

Date: 28.07.04

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Tradename: HEMPEL'S SHOPPRIMER ZS 15899
REDGREY 19890

Article no.: 15899-19890

Order no.:

Pos. no.: 0

Content: 16 chapters

1. manufacturer

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2. Composition/Information on ingredients

2.1 Chemical Characterization:

Compound for ethyl silicate coating, containing zinc

Hazardous Substances Content:

| EINECS-No. | Names | Symb. | Conc. % |
|------------|-------------|-------|-----------|
| 203-625-9 | toluene | | |
| 108-88-3 | 11-20 | Xn,F | 12.5 - 25 |
| 200-746-9 | propan-1-ol | | |
| 71-23-8 | 11-41-67 | Xi,F | 5 - 12.5 |

(See full text of R-phrases under chapter 16)

3. Hazards identification of the preparation

Hazard symbol: Xn harmful
F highly flammable

3.1 Special advice about risks for human beings and environment:

- 11 Highly flammable.
20 Harmful by inhalation.
36 Irritating to eyes.

4. First aid measures

4.1 General:

In all causes of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

4.2 Inhalation:

Remove patient to fresh air, keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If patient is unconscious, place in recovery position and seek medical advice.

4.3 Skin contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water or use suitable skin cleanser. Do not use solvents or thinners.

4.4 Eye contact:

Immediately flush eye(s) gently with plenty of water for at least 10 minutes. Hold eye open. Seek medical advice.

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4.5 **Ingestion:**

Seek medical advice as soon as possible. Keep at rest. Do not induce vomiting.

5. **Fire-fighting measures**

5.1 **Extinguishent agent recommended:**

alcohol resistant foam, CO₂, powders, waterspray

5.2 **Not to be used:**

waterjet

5.3 **Special hazards by the compound itself, its combustion products or by generated gases:**

Fire will produce dense black . Exposure to decomposition products may cause a health hazard.

5.4 **Protective equipment:** Wear suitable respiratory equipment. Closed containers exposed to fire must be cooled with water. ---

6. **Accidental release measures**

6.1 **Personal precautionary measures:**

Keep away from sources of ignition. Ensure area is well ventilated. Do not breathe vapour. Refer to protective measures listed in sections 7 and 8.

6.2 **Environmental protection measures:**

Do not empty into drains. If the product contaminates lakes, rivers, or sewages, inform appropriate authorities in accordance with local regulations.

6.3 **Method / Process of cleaning:**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations
Clean preferably with a detergent; avoid use of solvents.

7. **Handling and storage**

7.1 **Handling**

7.1.1 **Advice about safe use:**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

Additionally, the product should only be used in areas from which all naked lights, fire and other sources of ignition have been excluded. Preperation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. Electrical equipment and tools should be protected to the appropriate standard.

Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Do not eat, drink and smoke.

For personal protection see chapter 8.

Comply with the health and safety at work laws.

7.1.2 **Advice about protection against fire and explosion:**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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7.2 Storage

7.2.1 Requirements for storage rooms and tanks :

Although the storage and use of this product is not subject to specific statutory requirements, observation of the principles of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations as appropriate will be seen as good industrial practice in meeting the general duties of the Health and Safety at Work Act.

Keep away from sources of ignition. No smoking. Floors should be of the conducting type. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.2.2 Advice about the assembled storage of goods :

Keep away from oxidising agents, from strongly alkline and strongly acid materials.

7.2.3 Further information about storage conditions :

Keep only in the original container.

Sensitive to temperature: Don't store above +30 °C.

Recommendation: Store between +5 and +30 °C in a well ventilated place away from sources of heat and direct sunlight. Keep away from sources of ignition.

8. Exposure controls/Personal protection

8.1 Engineering Measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

8.2 Exposure Limits

Occupational exposure limit for :

| EINECS-No. | Names | type | value | standard | |
|------------|-------------|------|-------|----------|-----|
| 203-625-9 | toluene | | 150 | 50 | ppm |
| 200-746-9 | propan-1-ol | | 250 | 200 | ppm |

The limits mentioned were taken from actual lists.

8.3 Personal Protection

8.3.1 Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

8.3.2 Hand protection

For prolonged or repeated contact, use protective gloves resistant to solvents. Barrier creams may help to protect the exposed areas of the skin. Follow the instructions of the producer.

8.3.3 Eye protection

Use safety eyewear designed to protect against splash of liquids.

8.3.4 Skin protection

Personel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

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9. Physical and chemical properties

9.1 Appearance

9.1.1 Form: liquid

9.1.2 Colour: see tradename

9.1.3 Odour: typical

9.2 Data of relevance for safety

| | value | standard | method |
|---------------------------------|-------------|-------------------|-------------------------|
| 9.2.1 flash point: | 4 | °C | |
| 9.2.2 viscosity at 23 °C: | > 90 s 4 mm | | |
| 9.2.3 specific gravity at 20°C: | 1.99 | g/cm ³ | |
| 9.2.4 lower explosion limit: | 1.3 | Vol.% | |
| 9.2.5 upper explosion limit: | 12.0 | Vol.% | |
| 9.2.6 solubility in water: | insoluble | | |
| 9.2.7 melting point: | | °C | |
| 9.2.8 boiling point: | | °C | citated from literature |
| 9.2.9 vapour density at 20 °C: | 9 | mbar | citated from literature |
| 9.2.10 pH-value: | - | | |
| 9.2.11 ignition temperature: | 425 | °C | citated from literature |
| 9.2.12 VOC-content: | 559.398 | g/l | DIN ISO 11890 |
| | 559.398 | g/l | ASTM D-3960-1 |

10. Stability and reactivity

10.1 Conditions which have to be avoided :

Stabile under recommended storage and handling conditions.
(See chapter 7).

10.2 Chemicals which have to be avoided :

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.3 Dangerous decompositions products :

No reaction when used as specified
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

Thermal decomposition products:

No reaction when used as specified

Dangerous reactions:

No reaction when used as specified

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11. Toxicological information

There are no data available on the preparation itself.

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system.

Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

The liquid splashed in the eyes may cause irritation and reversible damage.

General remarks

The product has not been checked. The preparation has been assessed according to the conventional method of the dangerous preparations directive (1999/45/EG) and has been classified as toxicological hazardous. (Details see chapter 2 and 15).

12. Ecological information

Classification for pollution of water : 2

The product should not be allowed to enter drains or water courses.

The preparation has been assessed according to the conventional method of the dangerous preparations directive (1999/45/EG) and has not been classified as environmental dangerous.

13. Disposal considerations

Recommendation for the product: Do not allow to enter into drains or water courses, etc. and do not allow to refuse disposal.

Code of waste: 080111

waste designation: waste paint and varnish containing organic solvents or other dangerous substances

Contaminated packings:

Recommendation for the product:

Empty containers are to be deposited according to the official rules.

4. Transport information

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

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Transport by land ADR/RID and GGVS/GGVE (export/inland)

ADR/RID-GGVS/E class: 3
Tremcard: 3
UN-No.: 1263
Transport document, name : Paint
SONDERVORSCHRIFT 640D
Packaging group: II

Transport by sea IMDG/GGVSea

IMDG/GGVSea class: 3
EMS No.: F-E, S-E
UN-No: 1263
Propper shipping name: PAINT
Packing group: II
Marine pollutant:

Transport by air ICAO-TI and IATA-DGR

ICAO/IATA class: 3 UN Nr.: 1263
Propper shipping name: Paint
contain:
Packaging group: II

15. Regularly information

15.1 Classification and labelling according to EU-Directives (the Preparation directive etc.):

The product is labelled as follows:

Xn harmful
F highly flammable

Danger classification:

toluene

R-phrases:

11 Highly flammable.
20 Harmful by inhalation.
36 Irritating to eyes.

S-phrases:

16 Keep away from sources of ignition - No smoking.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
38 In case of insufficient ventilation, wear suitable respiratory equipment.
51 Use only in well-ventilated areas.
23 Do not breathe vapour.

Special labelling:

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16. Other information

- Full text of R-phrases with no. appearing in chapter 2:
- | | |
|----|---|
| 11 | Highly flammable. |
| 20 | Harmful by inhalation. |
| 41 | Risk of serious damage to eyes. |
| 67 | Vapours may cause drowsiness and dizziness. |

The information of this SDS is based on the present state of our knowledge and on current EEC and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction.

It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product : it is not to be considered as a guarantee of the products' properties.

- End of Document -

33.EN
