SAFETY DATA SHEET (according to 1907/2006/EC, Article 31)

DIFFU - THERM® Diffusions - Red Type: USR (Cans)



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

Product identifier

Trade name: Penetrant Red (water washable)

Article number: USR

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

Application of the substance / the preparation

As **Developer** at the penetration process by colours acc. to EN ISO 3452-1

[EN 571-1] (DIN 54 152 part 1) for finding surface cracks.

Details of the supplier of the safety data sheet

Manufacturer/Supplier

Helmut Klumpf

Technische Chemie KG

Industriestr. 15

D - 45699 Herten Phone.: +49(0)2366 1003 - 0 Fax: +49(0)2366 1003 - 11 Email: klumpf@diffu-therm.de

Emergency telephone number: a.m. or next Emergency phone:

2. Hazards identification

Classification of the substance or mixture

According to Regulation (-EC) no. 1272/2008

The product is not subject to classification according to GHS criteria

Labelling according to Regulation (EC) No 1272/2008

Globally Harmonized System, EU (GHS)

The product is not subject to classification according to GHS criteria.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

3. Composition/information on ingredients

Chemical characterization:

Mixture of substances listed below and non-hazardous additions.

Components:	Name of chemical	weight %
CAS: 196823-11-7	oxirane, methyl-, polymer with oxirane, mono isotridecyl ether, block	z 1
EINECS: listed	GHS07 Eye Dam./Irrit. 2, H319 signal word: Attention	< 1

4. First aid measures

General information:

Wash thoroughly after working with substance.

After skin contact:

In case of contact with skin wash off with soap and water.

After eye contact:

Immediately and thoroughly for at least 15 minutes holding the eyelids apart under running water Rinse, ophthalmologist.

After swallowing

Do not induce vomiting.

Concerned at rest and call a physician.

5. Fire fighting measures

Suitable extinguishing material:

ABC powder, foam, carbon dioxide.

Extinguishing material that must not be used for safety reasons:

Full water jet.

Special protective equipment for fire fighters:

None

6. Accidental release measures

Personal precautions:

Not mandatory.

Environmental precautions:

Do not discharge into the subsoil/soil.

Do not discharge into the drains/surface waters/groundwater.

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Methods for cleaning up/taking up:

Take up with absorbent material

(e.g. sand, sawdust, kieselguhr, general-purpose binder).

7. Handling and storage

Precautions for safe handling

No special measures required.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

Use only containers specifically permitted for this substance/product.

Country-specific requirements for the storage of low water-polluting substances have to be aware.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Avoid contact with air / oxygen.(formation of peroxide).

Keep container tightly sealed.

Specific end use(s) No further relevant information available.

Storage class: 13

8. Exposure controls and personal protection

Additional advice on system design:

No further data, see item 7.

Control parameters

Components with critical values that require monitoring at the workplace:

none

Personal protection equipment:

Breathing equipment:

Dust mask

Hand protection:

Neoprene gloves

Eye protection:

Tightly fitting goggles

Skin Protection:

Light protective clothing.

General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end for the work. Avoid contact with eyes and skin.

9. Physical and chemical properties

General Information:

Form: fluid Colour: dark red Smell: almost odourless

Data relevant for safety:

Boiling range: $^{\circ}$ C Flash point: > 180 $^{\circ}$ C Ignition temperature: > 220 $^{\circ}$ C

Explosive properties: The Product is not explosive.

Explosion limits Lower e.l.: Vol.% Upper e.l.: Vol.% Vapour pressure (20°C): 20,5 mbar Density (20°C): 1,05 g/cm³

10. Stability and reactivity

Solubility in water (20°C):

Thermal decomposition / conditions to be avoided:

No hazardous reactions if the regulations / instructions for storage and handling are considered.

Fully miscible

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Possibility of hazardous reactions

No hazardous reactions when stored and handled.

Materials to be avoided:

Reacts with strong oxidizing agents.

Dangerous reactions:

No hazardous decomposition products if the regulations / instructions for storage and handling be considered

Thermal decomposition products:

oxides of carbon

11. Toxicological information

Acute Toxicity:

Irritability/Corrosiveness:

Skin: not irritant

Eye: moderate irritant effect **Sensitization:** No sensitization known.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The material is not subject to classification according to EC lists in the last version.

12. Ecological information

Information about elimination (persistence and degradability):

Ecotoxicity:

No data available.

Behaviour in sewage processing plants:

During correct introduction of low concentrations into adapted biological purification of the degradation activity of activated sludge is not anticipated.

General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

Other adverse effects No further relevant information available.

13. Disposal considerations

Waste treatment methods

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according the local authority regulations.

European waste catalogue -

Uncleaned packaging's:

Recommendation:

Empty contaminated packaging's thoroughly. They can be recycled after thorough and proper cleaning.

Packaging's that cannot be cleaned are to be disposed of in the same manner as the product.

Recommended cleaning agent: Water, if necessary with cleaning agent.

14. Transport information

Land transport ADR/RID, Marine transport IMDG and

Air transport ICAO-TI and IATA-DGR

No danger goods in all transport regalement.

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008

The product is not subject to classification according to GHS criteria.

Relevant phrases

H319 Causes serious eye irritation.

National regulations

Water hazard class: Water hazard class 1 (assessment by list): slightly hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16. Other information

These date are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally contractual relationship.

Department issuing data specification sheet:

Contact: Helmut. Klumpf Technische Chemie KG

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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