1. Identification of substance:

Trade name: Penetrant Red (water washable)

Article number: USR

Manufacturer/Supplier

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Advice:

Helmut Klumpf, Techn. Chemie KG, H. Klumpf

Emergency advice:

As stated above or next emergency phone

2. Hazards identification

Hazards designation:

None

Information pertaining to particular dangers for man and environment:

None

3. Composition/information on ingredients

Chemical characterization (preparation):

Description:
Penetrant with agent: Basis of propylene-glycol with wetting agents and a red food dys

4. First aid measures

General information:

After inhalation:

Ensure supply of fresh air.
In the event of symptoms refer for medical treatment.

After skin contact:

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

After eye contact:

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

After swallowing

Do not induce vomiting; instantly call for medical help. Instantly call for doctor

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 necessary

Environmental precautions:
Do not discharge into the subsoil/soil.
Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up:
Take up with absorbent material
(e.g. sand, sawdust, kieselguhr, general-purpose binder).

7. Handling and storage

Handling:

Advice on safe handling:
Use only in well-ventilated areas.

Advice on protection against fire and explosion:
Keep away from sources of ignition.

Storage:

Requirements for storage rooms and vessels:
Keep container in a well-ventilated place.

Advice on storage compatibility:
Do not store together with oxidizing agents.

Further information on storage conditions:
Keep container in a well-ventilated place.

8. Exposure controls/personal protection

Additional information about of technical systems:
No other information's, see point 7.

Components with critical values that require monitoring at the workplace: not required

Additional information's:
None

Personal protection equipment:

Respiratory protection:
Respiratory protection in the event of aerosol or mist formation.

Hand protection:
Gloves

Skin Protection:
Light protective clothing.

Eye protection:
Tightly fitting goggles

General protective measures:
Avoid contact with eyes.
Avoid prolonged and/or repeated contact with skin.

Hygiene measures:
At work do not eat, drink, smoke, or take drugs.
Remove soiled or soaked clothing immediately.
Cloths contaminated with product should not be kept in trouser pockets.

9. Physical and chemical properties

General Information

Form: Liquid Colour: yellow/green Smell: characteristic

Data relevant for safety:

Flash point:	> 180	°C	(DIN 51 758)
Ignition temperature:	220	°C	(DIN 51 794)
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):	1,12	g/cm³	(DIN 51 757)
Solubility in water (20°C):	complete soluble		
Viscosity (20°C):	4,8	mm/s²	

10. Stability and reactivity

Conditions to avoid:
No decomposition if used correctly.
No reactions by normal use.

Materials to avoid:
No hazardous reactions known.

Hazardous decomposition products:
No decomposition if used correctly.

11. Toxicological information

Toxicity test:
Acute Toxicity:
Irritability/Corrosiveness:
Skin: not irritant
Eye: lightly irritant

Sensitization:
No sensitization known.

12. Ecological information

Data on elimination (persistence and degradability):
The product is readily biodegradable.
Danger class for water (WKG 1 German only) = slightly dangerous for water

Behaviour in environment compartments:
Not known.

Ecotoxicological effects:
No data are available.

General information's:
Do not discharge product unmonitored into the environment.

13. Disposal considerations

Product:

Recommendations:
Hand over to authorized disposal agency.

Waste code No.:
EAV: 14 06 03 term: Mixture of solvent

Contaminated packaging:

Recommendations:
Container must be completely emptied and must not be opened by force.
Hand over to authorized disposal agency.

Waste code No.:
EAV: 15 01 02 term: Plastic jerry cans

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

Labelling according to EC-regulations:
The product does not require a hazard warning label in accordance with EC directives / German regulations on dangerous substance.

National Regulations (German):

TA-Air/classification, compound, remarks: Class 3 (organic)

Water hazard class: (WKG 1 German only) = slightly dangerous for water

16. Other information

Recommended uses:
As **PENETRANT** at the penetration process by colours acc. to EN ISO 3452-1 [EN 571-1] (DIN 54 152 part 1) for finding surface cracks.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.