

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

Product identifier

Trade name: UV-Fluorescence (water washable)

Article number: UVF - 4

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

Application of the substance / the preparation

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 Email: klumpf@diffu-therm.de

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

2. Hazards identification

Classification of the substance or mixture

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

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

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labeled according to the CLP regulation.



Hazard pictograms GHS07, GHS 08

Signal word Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

Results of PBT and PvB 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 %
EG-Nr.: 918-481-9	hydrocarbons, C10-C13, n-Alkane, Isoalkane, Cyclene, < 2% aliphatic GHS08 Asp. Tox. 1, H304	< 40
EG-Nr.: 918-811-1	hydrocarbons, C10, aliphatic, <1% Naphthalin GHS08 Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	< 15
CAS: 64742-94-5 EINECS: 265-198-5	aromatic hydrocarbons GHS08, H302, EUH066, H304, H336, H412	< 30
CAS: 64742-47-8 EINECS: 265-149-8	aliphatic hydrocarbons GHS08, H302, EUH066, H304, H336	< 15
CAS: 196823-11-7 EINECS: listed	oxirane, methyl-, polymer with oxirane, mono isotridecyl ether, block GHS07 Eye Dam./Irrit. 2, H319 signal word: Attention	< 10

4. First aid measures

General information:

Remove contaminated soaked clothing immediately.

After inhalation:

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

Rinse out mouth and give plenty of water to drink.

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

5. Firefighting measures

Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

Special hazards arising from the substance or mixture

Hazardous Combustion Products: Smoke, Fume, Incomplete combustion products, Oxides of carbon.

Advice for firefighters

Use water spray to cool fire exposed surfaces and to protect.

Runoff from fire control materials or dilution from entering into waters, sewers or drinking water supply.

Firefighters must use a standard protective equipment, including helmets with face protection and self-contained

breathing protection equipment (SCBA).

Protective equipment: Put on breathing apparatus.

Additional information

Flammable.

Cool endangered containers with water spray jet.

Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Ensure adequate ventilation.

Keep away sources of ignition.

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

Precautions for safe handling

Keep away from heat and direct sunlight.

Material can accumulate static charges which can cause an electrical spark (ignition source).

Measures against static discharges.

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

Prevent formation of aerosols.

Avoid contact with eyes and skin.

Do not breathe gas / fumes / vapour / spray.

Information about protection against explosions and fires:

Flammable mixtures may be formed in empty containers.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and containers:

- Keep away from direct sunlight and other heat or ignition.
- Fixed storage tanks, transfer tanks and the associated equipment should be properly grounded to prevent build-up of static charges.
- Use only containers specifically permitted for this substance/product.
- Country-specific requirements for the storage of low water-polluting substances have to be aware.

Suitable container materials

- Tank cars, barrels
- Store in clean steel or plastic containers.

Suitable lining material: Carbon steel, stainless steel, polyethylene, polypropylene, polyester, Teflon

Unsuitable container- / liner materials:

- Natural rubber; butyl rubber, ethylene-propylene-diene monomer (EPDM); polystyrene

Information about storage in one common storage facility: Store away from oxidizing agents.

Further information about storage conditions: Keep container tightly sealed.

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

Storage class: 10

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:

- RCP group C9-C15 aromatics
- AGW: 100 mg / m³ (TRGS 900, 2007)
- Additional information: The lists valid during the making were used as basis.

Personal protection equipment:

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.

Breathing equipment:

- Use breathing protection only when aerosol or mist is formed.
- Use breathing protection in case of insufficient ventilation.

Hand protection:

- Neoprene gloves

Eye protection:

- Tightly fitting goggles

Skin Protection:

- Light protective clothing.

General protective measures:

- Avoid contact with eyes. Do not inhale aerosols.

9. Physical and chemical properties

General Information:

Form: fluid Colour: yellow/green Smell: almost odourless

Data relevant for safety:

Boiling range:	203 - 263 °C
Flash point:	75 °C
Ignition temperature:	> 200 °C
Explosive properties:	The Product is not explosive, but may form flammable/explosive vapour-air mixture.
Explosion limits	Lower e.l.: 0,6 Vol.%
	Upper e.l.: 7 Vol.%
Vapour pressure (20°C):	30 mbar
Density (20°C):	0,87 g/cm ³
Solubility in water (20°C):	emulsifiable
Viscosity (20°C):	6,35 mm ² /s



10. Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Materials to be avoided:

Reacts with strong oxidizing agents.

Dangerous reactions:

No dangerous reactions known.

11. Toxicological information

The classification of risk is based on knowledge of the toxicity of the components contained in this product.

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

LD/LC50 values that are relevant for classification:			
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics			
Oral	LD50		> 5.000 mg/kg (rad)
Dermal	LD50		> 5.000 mg/kg (rab)
Inhalative	LC50		> 4.951 mg/l (rat)
Hydrocarbons, C10, aromatics, < 1% naphthalene			
Oral	LD50		> 5.000 mg/kg (rat) (Test(s) equivalent / similar OECD-Directives 401)
Dermal	LD50		> 2.000 mg/kg (rab) (Test(s) equivalent / similar OECD-Directives 402)
Inhalative	LC50		> 4.688 mg/l (rat) (Test(s) equivalent / similar OECD-Directives 403)

Primary irritant effect:

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

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

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: 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.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

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

Aspiration hazard: May be fatal if swallowed and enters airways.

12. Ecological information

Data on elimination (persistence and degradability):

The product is inherently biodegradable.

Water hazard class WHC 2 = hazardous to water (self-classification)

To eliminate the obtained in the intermediate cleaning dirty water, the flocculation precipitation or activated carbon adsorption is.

Behaviour in environment compartments:

Not known.

Ecotoxicological effects:

No data are available.

Behaviour in sewage plant:

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

General information's:

The behaviour of the product in sewage treatment plants has not been tested.

The information on this was derived from products of similar structure or composition.

13. Disposal considerations

Waste treatment methods

Recommendation

The product is suitable for burning in an enclosed, controlled burner suitable for fuel value or disposal by supervised incineration at very high temperatures at which it does not come to the formation of undesired inflammatory products.

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.

14. Transport information

Land transport ADR/RID

UN-No.: 3082 Identification: Environmentally hazardous substance, liquid, n.o.s.
Mixture alkyl (C₃ -C₁₁) benzenes.
Class: 9 Package Group: III Tunnel restriction code: E
Classifications code: M6 Shipment category: 3 Label-no.: 9
Packing instruction: P 001, MP 19 Limited of volume: 5 l

Marine transport IMDG/GGVSee

UN-No.: 3082 Class: 9 Package Group: III
EmS-No.: F-A, S-F Label-no.: 9 Marine Pollutant: P Label: Marine Pollutant
Proper Shipping Name: Environmentally hazardous substance, liquid n.o.s.,
mixture alkyl (C₃ - C₁₁) benzenes

Air transport ICAO-TI and IATA-DGR

Class/Division: 9 UN/ID-No.: 3082
Package Group: III, Label-No.: 9
Packing inst. Passenger aircraft: 914 Max. net/Package: without limit
Packing inst. Cargo aircraft: 914 Max. net/Package: without limit
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Remark: mixture alkyl (C₃ -C₁₁) benzenes

15. Regulatory information

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

The substance is classified and labelled according to the CLP regulation.

Relevant phrases

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

National regulations

Water hazard class: Water hazard class 2 (Assessment by list): hazardous for water.

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

16. Other information

These data 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