

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

1.1. Product identifier

Trade name: UV - Developer (water based)

Article number: UVE - W

1.2. 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.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

Helmut Klumpf

Technische Chemie GmbH & Co. KG

Industriestr. 15

D - 45699 Herten Phone.: +49(0)2366 1003 - 0 E-mail: info@diffu-therm.de

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

2. Hazards identification

2.1. Classification of the substance or mixture

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

The product is not subject to classification according to GHS criteria

2.2. Labelling according to Regulation (EC) No 1272/2008

Globally Harmonized System, EU (GHS)

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

2.3 Other hazards

This substance/mixture does not contain any components in concentrations of 0.1% or higher that are classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Environmental information: There is no information available on endocrine-disrupting properties for the environment.

Toxicological information: There is no information available on endocrine-disrupting properties for human health.

3. Composition/information on ingredients

Chemical characterization:

Mixture of substances listed below and non-hazardous additions.

Components:	Name of chemical	weight %
CAS: 64-17-5	ethanol	< 3
EINECS: 200-578-6	GHS02 Flam. Fl. 2, H225; GHS07 Eye Irrit. 2	

4. First aid measures

4.1. 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.

Keep the affected person calm and call a doctor.

5. Firefighting measures

5.1. Suitable extinguishing material:

ABC powder, foam, carbon dioxide.

Extinguishing material that must not be used for safety reasons:

Full water jet.

5.2. Special protective equipment for fire fighters:

None

6. Accidental release measures

6.1. Personal precautions:

Not mandatory.

6.2. Environmental precautions:

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

6.3. Methods for cleaning up/taking up:

Take up with absorbent material
(e.g. sand, sawdust, kieselguhr, general-purpose binder).

7. Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities:

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: 12

8. Exposure controls and personal protection

Additional advice on system design:

No further data, see item 7.

8.1. Control parameters

Components with critical values that require monitoring at the workplace: Not required.		
64-17-5	ethanol	(< 5%)
WEL	Long-term value: 1.920 mg/m ³ , 1.000 ml/m ³	

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective 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

9.1 Information on basic physical and chemical properties:

Form: fluid Colour: withe Smell: odourless

Data relevant for safety:

Boiling range:	°C
Flash point:	n.a. °C
Ignition temperature:	n.a. °C
Explosive properties:	The Product is not explosive.
Explosion limits	Lower e.l.: - Vol.%
	Upper e.l.: - Vol.%
Vapour pressure (20°C):	mbar
Density (20°C):	0,9 g/cm ³

Solubility in water (20°C):
pH- Value

practically insoluble
9 - 10

10. Stability and reactivity

- 10.1. Reactivity:** No decomposition if stored and applied as directed.
10.2. Chemical stability: Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions: No decomposition if used as intended.
10.4. Conditions to avoid:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.
10.5. Incompatible materials: oxidising agent.
10.6. Hazardous decomposition products: Carbon monoxide and carbon dioxide.

11. Toxicological information

11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

Irritation

Acute Toxicity:

LD/LC50 values relevant for classification:		
CAS: 64-17-5	ethanol	(< 5 %)
Oral	LD50	> 2.000 mg/kg (rat)
Inhalativ	LC50/4 h	> 20 mg/l (rat)

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.

11.2. Information on other hazards:

Endocrine-disrupting properties:

There is no information available on endocrine-disrupting properties for human health.

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.

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

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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.

EU. Regulation EU No. 649/2012 concerning the export and import of dangerous chemicals

The substance/mixture is not subject to this legislation.

EU. REACH, Annex XVII, Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles:

Not registered

Other regulations

Observe employment restrictions according to the law for the protection of mothers at work, in training and during studies (Maternity Protection Act - MuSchG).

Observe the national regulations on the protection of young people at the workplace.

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

15.2. Chemical safety assessment:

No data available.

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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 GmbH & Co. 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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