

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

**Product identifier**

**Trade name:** Developer (water based)

**Article number:** BEA - W

**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

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**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: 64-17-5	ethanol	< 5
EINECS: 200-578-6	GHS02 Flam. Fl. 2, H225	

## 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.

**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:** 12

## 8. Exposure controls and personal protection

**Additional advice on system design:**

No further data, see item 7.

**Control parameters**

<b>Components with critical values that require monitoring at the workplace:</b> Not required.		
64-17-5	ethanol	(< 5%)
WEL	Long-term value: 380 mg/m <sup>3</sup> , 200 ml/m <sup>3</sup>	

**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: 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<sup>3</sup>

Solubility in water (20°C):

practically insoluble

pH- Value

9 - 10

## 10. Stability and reactivity

**Thermal decomposition / conditions to be avoided:**

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

**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 substance is classified an labelled according to the CLP regulation.

**Relevant phrases:**

H225 Highly flammable liquid and vapour.



**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.

**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