



Material Safety Data Sheet

According to 91/155 EC

Printing date 23.04.2002

Reviewed on 04.05.1999

1 Identification of substance :

• **Product details :**

• **Trade name :** UNIZINC CYZ 511 4X

• **Article number :** 89332

• **Manufacturer /Supplier:**

Kunz Gmbh Untergasse 47 D - 65468 Trebur – Geinsheim Telefon : 06147/50130 Telefax : 06147/501319

• **Further information obtainable from :** Department laboratory

2 Composition/Data on components :

• **Chemical characterization :**

• **Description :** Mixture of substances without specific hazardous.

Polyvinyl Alcohol derivate Cas no: 9002-89-5 , Nicotinic acid reaction product Cas no: 59-67-6 ,

Epichlorohydrin-derivate Cas no : 26587-37-1

• **Dangerous components :** Void

3 Hazard identification :

• **Hazard description :** not applicable

• **Information concerning to particular hazards to man and environment** not applicable

4 First aid measures:

• **General information** No special measures required.

• **After inhalation** Supply fresh air, consult doctor in case of complaints.

• **After skin contact** Immediately rinse with water.

• **After eye contact** Rinse opened eye for several minutes under running water.

• **After swallowing** Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Fire fighting measure :

• **Suitable extinguishing agents**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• **Special hazards caused by the substance, its products of combustion or resulting gases :**

Formation of toxic gases is possible during heating or in case of fire.

• **Protective equipment :** Mount respiratory protective device.

6 Accidental release measures :

• **Person – related safety precautions :** Wear protective clothing.

• **Measures for environmental protection :**

Do not allow to enter sewers / surface or ground water.

• **Measures for cleaning / collecting :**

Absorb with liquid – binding material (sand, diatomite, acid binders, universal binders, sawdust).

• **Additional information :** No dangerous substances are released.

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7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class**
- **Class according to regulation on flammable liquids:** Void

8 Exposure controls and personal protection gear

- **Additional information about design of technical facilities:**
- No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
- The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves.

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

- **Form:** Fluid
- **Colour:** Red
- **Odour:** Characteristic
- **Change in condition**
- **Melting point/Melting range:** undetermined
- **Boiling point/Boiling range:** 100°C
- **Flash point:** Not applicable
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Vapour pressure at 20°C:** 23 hPa
- **Density at 20°C:** ca. 1.12 g/cm³

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- **Solubility in / Miscibility with Water:** Fully miscible
- **pH-value at 20°C:** 5.5 - 7.0

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions:** No dangerous reactions known
- **Dangerous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:** When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** No data available
- **General notes:**
 - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 - Danger to drinking water if even small quantities leak into the ground.
 - Product contains AOX-Ingredients

13 Disposal considerations

- **Product:**
- **Recommendation:** Must be specially treated adhering to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No

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- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -

15 Regulations

- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **National regulations**
- **Classification according to VbF:** Void
- **Waterhazard class:** WGK 3 (Self-assessment): strong hazardous for water

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Department laboratory