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

### **1.1 Product identifier**

Trade name : I141-W60 hebro®prenol WF 973

### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Sub- : Coagulant for overspray paint in water-wash spray booths  
stance/Mixture

### **1.3 Details of the supplier of the safety data sheet**

Company : hebro chemie- ZN der Rockwood Specialties Group  
GmbH  
Rostocker Str. 40  
41199 Mönchengladbach  
Contact person : Wolfgang Schaffers  
Telephone : +49 (0) 2166 6009-0  
Telefax : +49 (0) 2166 6009-99  
Contact person product safety : Abteilung Produktsicherheit  
Telephone : +49(0)2166 6009-176  
E-mail address : wolfgang.schaffers@chemetall.com

### **1.4 Emergency telephone number**

: Giftinformationszentrum Erfurt:  
+49 (0) 361 730 730

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## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

#### **Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### **2.2 Label elements**

#### **Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### **Additional Labelling**

EUH210 Safety data sheet available on request.

### **2.3 Other hazards**

No data available

The information required is contained in this Material Safety Data Sheet.

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## **SECTION 3: Composition/information on ingredients**

### **3.2 Mixtures**

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Chemical nature : Water based preparation containing cationic polyacrylamide

**Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
Acetic acid	64-19-7 200-580-7	Flam. Liq. 3; H226 Met. Corr. 1; H290 Skin Corr. 1A; H314 Note B	$\geq 2.5 - < 5$
WEL substance :			
Glycerol	56-81-5 200-289-5 01-2119471987-18	Not a hazardous substance or mixture according to Regula- tion (EC) No. 1272/2008.	$\geq 2.5 - < 10$

For explanation of abbreviations see section 16.

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- General advice : No hazards which require special first aid measures.
- If inhaled : No information available.
- In case of skin contact : After contact with skin, wash immediately with plenty of water.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth.  
Prevent vomiting if possible.  
If symptoms persist, call a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms : No information available.
- Risks : No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : Treat symptomatically.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

- Suitable extinguishing media : The product itself does not burn.  
Use extinguishing measures that are appropriate to local cir-

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cumstances and the surrounding environment.

Foam

Water spray jet

Dry chemical

Unsuitable extinguishing media : High volume water jet

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Combustion may cause:  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

## 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Handle in accordance with good industrial hygiene and safety practice.

### 6.2 Environmental precautions

Environmental precautions : Inform the relevant authorities if it enters sewers, aquatic environment or soil.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.  
Contaminated surfaces will be extremely slippery.

### 6.4 Reference to other sections

See chapter  
8  
and  
13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : No special precautions required.

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## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No special storage conditions required. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Protect from frost. Keep at temperatures between 5°C and 40°C.

Advice on common storage : No materials to be especially mentioned.

## 7.3 Specific end use(s)

Specific use(s) : Coagulant for overspray paint in water-wash spray booths

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Glycerol	56-81-5	TWA (Mist)	10 mg/m <sup>3</sup>	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
Acetic acid	64-19-7	TWA	10 ppm 25 mg/m <sup>3</sup>	91/322/EEC
Further information	Indicative			

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Acetic acid	Workers	Inhalation	Long-term local effects	25 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	25 mg/m <sup>3</sup>
Glycerol	Workers	Inhalation	Long-term local effects	56 mg/m <sup>3</sup>

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Acetic acid	Fresh water	3.058 mg/l
	Marine water	0.3058 mg/l
	Intermittent use/release	30.58 mg/l
	Sewage treatment plant	85 mg/l
	Fresh water sediment	11.36 mg/kg dry weight (d.w.)
	Marine sediment	1.136 mg/kg dry weight (d.w.)
	Soil	0.47 mg/kg dry weight (d.w.)
Glycerol	Fresh water	0.885 mg/l
	Marine water	0.0885 mg/l
	Intermittent use/release	8.85 mg/l
	Sewage treatment plant	1000 mg/l
	Fresh water sediment	3.3 mg/kg

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	Marine sediment	0.33 mg/kg
	Soil	0.141 mg/kg

## 8.2 Exposure controls

### Personal protective equipment

Eye protection	: not required
Hand protection	
Material	: Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.
Skin and body protection	: not required
Respiratory protection	: Use respirator when performing operations involving potential exposure to vapour of the product.
Protective measures	: Follow the skin protection plan.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: white
Odour	: characteristic
Odour Threshold	: No data available
pH	: 5 (20 °C) Concentration: 50 g/l
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 100 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 1.1 g/cm <sup>3</sup> (20 °C)

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Method: DIN 51757

Solubility(ies)	
Water solubility	: 500 g/l
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: 150 mPa*s (20 °C)
Viscosity, kinematic	: No data available
Flow time	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

## 9.2 Other information

Other physico-chemical properties: This information is not available/not determined.

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## SECTION 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

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

No data available

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## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

##### **Product:**

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

#### **Acute toxicity**

##### **Components:**

##### **Acetic acid:**

Acute oral toxicity : LD50 (Rat): 3,310 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 40 mg/l  
Exposure time: 4 h

##### **Glycerol:**

Acute oral toxicity : LD50 (Rat): 12,600 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 18,700 mg/kg

#### **Skin corrosion/irritation**

##### **Product:**

Remarks: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

May cause skin irritation in susceptible persons.

#### **Serious eye damage/eye irritation**

##### **Product:**

Remarks: The liquid splashed in the eyes may cause irritation and reversible damage.

#### **Respiratory or skin sensitisation**

##### **Product:**

Remarks: This information is not available.

#### **Germ cell mutagenicity**

##### **Product:**

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

#### **Germ cell mutagenicity**

##### **Components:**

##### **Acetic acid:**

Genotoxicity in vitro : Test Type: Ames test  
Species: Salmonella typhimurium  
Method: OECD Test Guideline 471

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Result: negative

### **Carcinogenicity**

#### **Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

#### **Product:**

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

#### **STOT - single exposure**

#### **Product:**

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

#### **STOT - repeated exposure**

#### **Product:**

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

### **Aspiration toxicity**

#### **Product:**

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

### **Further information**

#### **Product:**

Remarks: Health injuries are not known or expected under normal use.

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Product:**

Ecotoxicology studies for the product are not available.

#### **Components:**

#### **Acetic acid:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 75 mg/l  
Exposure time: 96 h  
  
LC50 (Pimephales promelas (Fathead minnow)): 106 mg/l  
Exposure time: 24 h  
  
LC50 (Leuciscus idus (Golden orfe)): 408 - 410 mg/l  
Exposure time: 48 h  
  
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 47 - 95 mg/l  
Exposure time: 24 h

#### **Glycerol:**



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Toxicity to fish	:	LC50 (Carassius auratus (goldfish)): > 5,000 mg/l Exposure time: 96 h  LC50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 2,900 mg/l
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 10,000 mg/l

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

## 12.4 Mobility in soil

### Product:

Mobility : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : No data available.

## 12.6 Other adverse effects

### Product:

Additional ecological information : Do not flush into surface water or sanitary sewer system.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product	:	Do not let product enter drains. Do not dispose of with domestic refuse. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging	:	Dispose of in accordance with local regulations.
Waste Code	:	070799 : wastes not otherwise specified

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## **SECTION 14: Transport information**

### **14.1 UN number**

Not regulated as a dangerous good

### **14.2 UN proper shipping name**

Not regulated as a dangerous good

### **14.3 Transport hazard class(es)**

Not regulated as a dangerous good

### **14.4 Packing group**

Not regulated as a dangerous good

### **14.5 Environmental hazards**

Not regulated as a dangerous good

### **14.6 Special precautions for user**

Refer to protective measures listed in sections 7 and 8.

### **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

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## **SECTION 15: Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.  
Regional or national implementations of GHS may not implement all hazard classes and categories.

### **15.2 Chemical safety assessment**

A Chemical Safety Assessment is not required for this substance.

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## **SECTION 16: Other information**

### **Full text of H-Statements**

H226 : Flammable liquid and vapour.  
H290 : May be corrosive to metals.  
H314 : Causes severe skin burns and eye damage.

### **Full text of other abbreviations**

Flam. Liq. : Flammable liquids  
Met. Corr. : Corrosive to metals  
Skin Corr. : Skin corrosion

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response;

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EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

Other information : The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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