

1 Identification of substance

· **Product details**

· **Trade name:** Härter WPZ

· **Application of the substance / the preparation** Hardening agent/ Curing agent

· **Manufacturer/Supplier:**

MIPA AG

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· **Information department:** Laboratory

· **Emergency information:**

US Emergency Telephone Number (for transportation incidents only): 1-800-535-5053 (Infotrac)

011 49(0)5262-9939657 (MIP)

2 Composition/Data on components

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

64-17-5	ethanol	50-100%
108-10-1	4-methylpentan-2-one	25-50%
7664-38-2	phosphoric acid	≤ 2.5%

3 Hazards identification

· **Hazard description:**



Harmful
Highly flammable

· **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Highly flammable.

Harmful by inhalation.

Irritating to eyes and respiratory system.

Repeated exposure may cause skin dryness or cracking.

· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

4 First aid measures· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** *Generally the product does not irritate the skin.*· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** *If symptoms persist consult doctor.***5 Fire fighting measures**

· **Suitable extinguishing agents:** *CO₂, sand, extinguishing powder. Do not use water.*

· **For safety reasons unsuitable extinguishing agents:** *Water with full jet*

· **Protective equipment:** *Mouth respiratory protective device.*

6 Accidental release measures

· **Person-related safety precautions:** *Wear protective equipment. Keep unprotected persons away.*

· **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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

7 Handling and storage· **Handling:**· **Information for safe handling:**

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** *Store in a cool location.*

· **Information about storage in one common storage facility:** *Store away from foodstuffs.*

· **Further information about storage conditions:**

Keep receptacle tightly sealed.

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Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

64-17-5 ethanol

PEL	1900 mg/m ³ , 1000 ppm
REL	1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , NIC-1000 ppm Long-term value: 1880 mg/m ³ , 1000 ppm NIC-A3

108-10-1 4-methylpentan-2-one

PEL	410 mg/m ³ , 100 ppm
REL	Short-term value: 300 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm
TLV	Short-term value: 307 mg/m ³ , 75 ppm Long-term value: (205) NIC-123 mg/m ³ , (50) NIC-30 ppm BEI;NIC-A3

7664-38-2 phosphoric acid

PEL	1 mg/m ³
REL	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³
TLV	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form:	Fluid
Color:	According to product specification
Odor:	Characteristic

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	78°C (172°F)

· **Flash point:** 16°C (61°F) (DIN 53213)

· **Ignition temperature:** 425°C (797°F) (DIN 51794)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

Lower:	1.7 Vol %
Upper:	15.0 Vol %

· **Vapor pressure at 20°C (68°F):** 59 hPa (44 mm Hg)

· **Density at 20°C (68°F):** 0.808 g/cm³ (DIN 53217)

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Viscosity:

Kinematic at 20°C (68°F): 12 s (DIN 53211/4)

· **Solvent separation test** < 3 %

· Solvent content:

Organic solvents:	95.2 %
Water:	3.0 %
VOC content:	95.2 %
	less exempt solvents 769.4 g/l / 6.42 lb/gl
	with exempt solvents 788.8 g/l / 6.58 lb/gl

· **Solids content (weight-%):** 1.7 %

10 Stability and reactivity

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

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11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

108-10-1 4-methylpentan-2-one

Oral	LD50	2080 mg/kg (rat)
Dermal	LD50	16000 mg/kg (rab)
Inhalative	LC50/4 h	8.3-16.6 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful
Irritant

12 Ecological information

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· **Product:**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **DOT regulations:**



· **Hazard class:**

3

· **Identification number:**

UN1263

· **Packing group:**

II

· **Proper shipping name (technical name):** PAINT RELATED MATERIAL

· **Label**

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· **Land transport ADR/RID (cross-border):**



- **ADR/RID class:** 3 (F1) Flammable liquids
- **Danger code (Kemler):** 33
- **UN-Number:** 1263
- **Packaging group:** II
- **Label:** 3
- **Description of goods:** 1263 PAINT RELATED MATERIAL, special provision 640D

· **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label:** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Propper shipping name:** PAINT RELATED MATERIAL

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label:** 3
- **Packaging group:** II
- **Propper shipping name:** PAINT RELATED MATERIAL

15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

108-10-1 4-methylpentan-2-one

7664-38-2 phosphoric acid

78-93-3 butanone

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

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· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
64-17-5 ethanol

· **Carcinogenicity categories**
· **EPA (Environmental Protection Agency)**
108-10-1 4-methylpentan-2-one I
78-93-3 butanone I

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**
64-17-5 ethanol A4 50-100%

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

· **Product related hazard informations:**
The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**
Harmful
Highly flammable

· **Hazard-determining components of labelling:**
4-methylpentan-2-one

· **Risk phrases:**
Highly flammable.
Harmful by inhalation.
Irritating to eyes and respiratory system.
Repeated exposure may cause skin dryness or cracking.

· **Safety phrases:**
Keep out of the reach of children.
Keep container tightly closed and in a well-ventilated place.
Keep away from food, drink and animal feedingstuffs.
Keep away from sources of ignition - No smoking.
Do not breathe fumes/aerosol.
If swallowed, seek medical advice immediately and show this container or label.

· **National regulations:**

· **Information about limitation of use:**
64-17-5 ethanol 5

Class	Share in %
NK	50-100

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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:** MIPA AG, Abteilung Umweltschutz
- **Contact:** Michaela Knall
- *** Data compared to the previous version altered.**

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