

Material Safety Data Sheet

according to Regulation (EC) 1907/2006, Article 31

Product name : Härter HA

Revision : 10.01.2014

Version : 1

Print date : 10.01.2014



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01 Identification of the substance/preparation and of the company/undertaking

Product name

Härter HA

Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture

Additive

Manufacturer / Supplier:

TECA-PRINT AG
Bohlstrasse 17, Postfach
CH - 8240 Thayngen/Schweiz
Phone: +41 (0) 52 645 20 00
Fax: +41 (0) 52 645 21 01
E-mail: info@teca-print.com

Emergency information:

Schweizerisches Toxikologisches Infozentrum > 24 Stunden täglich : CH - nationaler Notruf für Vergiftungsnotfälle
= 145 oder Telefon : ++41 (0) 44 251 51 51

02 Hazards identification

Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R20: Harmful by inhalation



Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.



Xi; Irritant

R36: Irritating to eyes.

R10-52/53: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Label elements

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



Xn Harmful

Hazard-determining components of labelling:

Hexamethylen-1,6-diisocyanat homopolymer
hexamethylene-di-isocyanate

Risk phrases:

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- 10 Flammable.
- 20 Harmful by inhalation.
- 36 Irritating to eyes.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

- 9 Keep container in a well-ventilated place.
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 24/25 Avoid contact with skin and eyes.
- 37 Wear suitable gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer

Other hazards

Results of PBT and vPvB assessment

- PBT: Not applicable
- vPvB: Not applicable

03 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 28182-81-2	Hexamethylen-1,6-diisocyanat homopolymer ☒ Xn R20; ☒ Xi R37; ☒ Xi R43 ----- ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317 ; STOT SE 3, H335	50-100 %
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate R10 ----- ⚠ Flam. Liq. 3, H226	10-25 %

Additional information:

For the wording of the listed risk phrases refer to section 16.

04 First aid measures

Description of 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 and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

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.

Information for doctor:

Most important symptoms and effects, both acute and delayed

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No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

05 Firefighting measures

Extinguishing media:

Suitable extinguishing agents:

CO₂, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents:

Water with full jet

Special hazards arising from the substance or mixture

No further relevant information available.

Advice for firefighters:

Protective equipment:

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

06 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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

Methods and material for containment and cleaning up:

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

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

07 Handling and storage

Handling:

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities

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:

Keep container tightly sealed.

Specific end use(s):

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No further relevant information available.

08 Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

Control parameters

Ingredients with limit values that require monitoring at the workplace:

108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
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Additional information:

The lists valid during the making were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygiene 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.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves

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.

Eye protection:



Tightly sealed goggles

09 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

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Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point /Melting range:	Undetermined.
Boiling point /Boiling range:	150 °C
Flash point:	54 °C (Abel Penski)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature :	315 °C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limit :	
Lower:	1,5 Vol %
Upper:	10,8 Vol %
Vapour pressure at 20 °C:	3,4 hPa
Density at 20 °C:	1,07 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Segregation coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic at 20 °C:	Not determined.
Kinematic:	Not determined.
VOC (EC):	25,00 %
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions:

No dangerous reactions known.

Conditions to avoid:

No further relevant information available.

Incompatible materials:

No further relevant information available.

Hazardous decomposition products:

No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect::

on the skin: No irritant effect.

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on the eye: Irritating effect.
Sensitization: Sensitization possible through inhalation.
Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful
Irritant

12 Ecological information

Toxicity:

Acquatic toxicity:

No further relevant information available.

Persistence and degradability:

No further relevant information available.

Behaviour in environmental systems:

Bioaccumulative potential:

No further relevant information available.

Mobility in soil:

No further relevant information available.

Ecotoxicological effects:

Remark:

Harmful to fish

Additional ecological information:

General notes:

Harmful to aquatic organisms

Water hazard class 1 (German Regulation) (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.

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 together with household garbage. Do not allow product to reach sewage system.

European waste catalogue:

08 03 12	waste ink containing dangerous substances
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Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

14 Transport information

UN-Number

ADR, IMDG, IATA

UN1210

UN proper shipping name

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ADR, IMDG, IATA	1210 PRINTING INK RELATED MATERIAL PRINTING INK RELATED MATERIAL
Transport hazard class(es) ADR, IMDG, IATA	
	
Class:	3 Flammable liquids.
Label:	3
Packing group: ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
Special precautions for user Danger code (Kemler): EMS Number:	Warning: Flammable liquids. 30 F-E, S-D
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Transport category Tunnel restriction code	5L 3 D/E

15 Regulatory information

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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.

Relevant phrases:

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

R10 Flammable.
R20 Harmful by inhalation.
R37 Irritating to respiratory system.
R43 May cause sensitisation by skin contact.

Department issuing data sheet:

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