

Material Safety Data Sheet

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

Product name : Härter HB

Revision : 27.03.2014

Version : 1

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

1.1 Product identifier

Product name

Härter HB

CAS Number:

28182-81-2

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

No further relevant information available.

Application of the substance / the mixture

Additive

1.3 Details of the supplier of the safety data sheet

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

1.4 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

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

Acute Tox. 4

H332 Harmful if inhaled.

Skin Sens. 1

H317 May cause an allergic skin reaction.

STOT SE 3

H335 May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07

Signal word

Warning

Hazard-determining components of labelling:

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

Hazard statements

H332

Harmful if inhaled.

H317

May cause an allergic skin reaction.

H335

May cause respiratory irritation.

Precautionary statements

P261

Avoid breathing vapours.

P280

Wear protective gloves / eye protection.

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P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

03 Composition/information on ingredients

3.2 Chemical characterization: Substances

CAS No. Description

28182-81-2 Hexamethylen-1,6-diisocyanat homopolymer

Identification number(s)

Dangerous components:

CAS: 822-06-0	hexamethylene-di-isocyanate	< 1%
EINECS: 212-485-8	Acute Tox. 3, H331; Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	

04 First aid measures

4.1 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.

After swallowing:

If symptoms persist consult doctor.

Information for doctor:

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

05 Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

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5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters:

Protective equipment:

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

06 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Not required.

6.2 Environmental precautions:

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

6.3 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.

6.4 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

7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

No special measures required.

7.2 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.

7.3 Specific end use(s):

No further relevant information available.

08 Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

822-06-0 hexamethylene-di-isocyanate

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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Additional information:

The lists valid during the making were used as basis.

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8.2 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.
- Do not inhale gases / fumes / aerosols.

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.

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:

Goggles recommended during refilling

09 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Appearance	
Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point /Melting range:	Undetermined.
Boiling point /Boiling range:	330 °C
Flash point:	208 °C (Abel Penski)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature :	
Decomposition temperature:	Not applicable.
Self-igniting:	Not applicable.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limit :	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	Not determined.
Density at 20 °C:	1,17 g/cm ³
Relative density:	Not determined.

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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:	3000 mPas
Kinematic:	Not determined.
VOC (EC):	0,00 %

9.2 Other information

No further relevant information available.

10 Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Conditions to avoid:

No further relevant information available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Primary irritant effect::

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: Sensitization possible through skin contact.

12 Ecological information

12.1 Toxicity:

Aquatic toxicity:

No further relevant information available.

12.2 Persistence and degradability:

No further relevant information available.

Behaviour in environmental systems:

12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil:

No further relevant information available.

Additional ecological information:

General notes:

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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.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

13 Disposal considerations

13.1 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

14.1	UN-Number ADR, AND, IMDG, IATA	Void
14.2	UN proper shipping name ADR, AND, IMDG, IATA	Void
14.3	Transport hazard class(es) ADR, IMDG, IATA Class: ADN/R-Class:	Void Not restricted good Void
14.4	Packing group: ADR, IMDG, IATA	Void
14.5	Environmental hazards: Marine pollutant:	No
14.6	Special precautions for user	Not applicable.
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code UN "Model Regulation":	Not applicable. --

15 Regulatory information

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

No further relevant information available.

15.2 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.

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Relevant phrases:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.

Department issuing data sheet:

TECA-PRINT AG, Bohlstrasse 17, CH - 8240 Thayngen, Switzerland
msds@teca-print.com

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)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
Acute Tox. 3: Acute toxicity, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3