

# Safety Data Sheet

## EPOXY HARS CLEAR FAST B- COMP

Safety Data Sheet dated 25/5/2016, version 2

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

#### 1.1. Product identifier

Mixture identification:

Trade name: Epoxy hars clear fast A-comp

Trade code:

Relevant identified uses of the substance or mixture and uses advised against Recommended use:

Hardner for epoxy resin

#### 1.2. Details of the supplier of the safety datasheet

Company:

Vosschemie Benelux bvba

Mechelsesteenweg 303

B-2500 Lier

Tel: +32 (0)3 489 28 28

Fax: +32 (0)3 488 19 27

mailto: info@vosschemie-benelux.com

#### 1.3.

#### 1.4. Emergency telephone number

AntigifcentrumI tel. 0032(0)70 245 245

### SECTION 2: Hazards identification

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

EC regulation criteria 1272/2008 (CLP):

- ⚠ Warning, Acute Tox. 4, Harmful if swallowed.
- ⚠ Danger, Skin Corr. 1B, Causes severe skin burns and eye damage.
- ⚠ Danger, Eye Dam. 1, Causes serious eye damage.
- ⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.
- Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor/...
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Special Provisions:

None

Contents:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products

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with 3-aminomethyl-3,5,5-trimethylcyclohexylamine  
 benzyl alcohol  
 Trimethyl-hexamethylenediamine

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

## SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 40% - < 50%	4,4'- Isopropylidenediphenol , oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5- trimethylcyclohexylamin e	CAS: 38294-64-3 EC: 500-101-4	⚠ 3.1/4/Dermal Acute Tox. 4 H312 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.2/1C Skin Corr. 1C H314 ⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A, 1B H317 4.1/C3 Aquatic Chronic 3 H412
>= 40% - < 50%	benzyl alcohol	Index number: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9 REACH No.: 01- 2119492630 -38-xxxx	⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.1/4/Oral Acute Tox. 4 H302
>= 12.5% - < 15%	Trimethyl- hexamethylenediamine	CAS: 25513-64-8 EC: 247-063-2 REACH No.: 01- 2119560598 -25-xxxx	⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.2/1A Skin Corr. 1A H314 ⚠ 3.4.2/1A Skin Sens. 1A H317 4.1/C3 Aquatic Chronic 3 H412

## SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

Give nothing to eat or drink.

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In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

**SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

**SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

**SECTION 8: Exposure controls/personal protection**

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#### 8.1. Control parameters

No occupational exposure limit available

#### DNEL Exposure Limit Values

benzyl alcohol - CAS: 100-51-6

Worker Industry: 47 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Industry: 450 mg/mq - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 9.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 90 mg/mq - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

#### PNEC Exposure Limit Values

N.A.

#### 8.2. Exposure controls

##### Eye protection:

Use close fitting safety goggles, don't use eye lens.

##### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

##### Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

##### Respiratory protection:

Not needed for normal use.

##### Thermal Hazards:

None

##### Environmental exposure controls:

None

##### Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	not very viscous liquid	--	--
Odour:	aminic	--	--
Odour threshold:	N.A.	--	--
pH:	11.4	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	>200°C	--	--
Flash point:	>100 ° C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	1,04 g/cc	--	--
Solubility in water:	insoluble	--	--

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Solubility in oil:	soluble in aromatic solvents and alcohols	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

None in particular.

### 10.6. Hazardous decomposition products

None.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

benzyl alcohol - CAS: 100-51-6

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit = 2000 mg/kg

Test: LC50 - Route: Inhalation Mist - Species: Rat > 4178 mg/m3

Test: LD50 - Route: Oral - Species: Rat = 1620 g/kg

Trimethyl-hexamethylenediamine - CAS: 25513-64-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 910 mg/kg

b) skin corrosion/irritation:

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- Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive - Duration: 4h  
 c) serious eye damage/irritation:  
 Test: Eye Corrosive - Species: Rabbit Positive - Notes: Metodo OECD TG 405  
 d) respiratory or skin sensitisation:  
 Test: Skin Sensitization - Route: Skin Positive - Notes: Metodo OECD TG 406

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

#### SECTION 12: Ecological information

- 12.1. Toxicity  
 Adopt good working practices, so that the product is not released into the environment.  
 benzyl alcohol - CAS: 100-51-6  
 a) Aquatic acute toxicity:  
 Endpoint: LC50 - Species: Fish = 646 mg/l - Duration h: 48  
 Endpoint: LC50 - Species: Fish = 460 mg/l - Duration h: 96  
 Endpoint: EC50 - Species: Daphnia = 230 mg/l - Duration h: 48
- 12.2. Persistence and degradability  
 None  
 N.A.
- 12.3. Bioaccumulative potential  
 N.A.
- 12.4. Mobility in soil  
 N.A.
- 12.5. Results of PBT and vPvB assessment  
 vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects  
 None

#### SECTION 13: Disposal considerations

- 13.1. Waste treatment methods  
 Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

#### SECTION 14: Transport information



- 14.1. UN number  
 ADR-UN Number: 2735  
 IATA-UN Number: 2735  
 IMDG-UN Number: 2735
- 14.2. UN proper shipping name  
 ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Trimethyl-hexamethylenediamine)  
 IATA-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction

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products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Trimethyl-hexamethylenediamine)  
 IMDG-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Trimethyl-hexamethylenediamine)

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

ADR-Class: 8  
 ADR - Hazard identification number: 80  
 IATA-Class: 8  
 IATA-Label: 8  
 IMDG-Class: 8

#### 14.4. Packing group

ADR-Packing Group: III  
 IATA-Packing group: III  
 IMDG-Packing group: III

#### 14.5. Environmental hazards

ADR-Environmental Pollutant: No  
 IMDG-Marine pollutant: No

#### 14.6. Special precautions for user

ADR-Subsidiary risks: -  
 ADR-S.P.: 274  
 ADR-Tunnel Restriction Code: (E)  
 IATA-Passenger Aircraft: 852  
 IATA-Subsidiary risks: -  
 IATA-Cargo Aircraft: 856  
 IATA-S.P.: A3 A803  
 IATA-ERG: 8L  
 IMDG-EmS: F-A , S-B  
 IMDG-Subsidiary risks: -  
 IMDG-Storage category: Category A  
 IMDG-Storage notes: "Separated from" acids.  
 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
 N.A.

## SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
 Dir. 2000/39/EC (Occupational exposure limit values)  
 Regulation (EC) n. 1907/2006 (REACH)  
 Regulation (EC) n. 1272/2008 (CLP)  
 Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
 Regulation (EU) 2015/830  
 Regulation (EU) n. 286/2011 (ATP 2 CLP)  
 Regulation (EU) n. 618/2012 (ATP 3 CLP)  
 Regulation (EU) n. 487/2013 (ATP 4 CLP)  
 Regulation (EU) n. 944/2013 (ATP 5 CLP)  
 Regulation (EU) n. 605/2014 (ATP 6 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 436.80 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.33

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)



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15.2. Chemical safety assessment  
No

#### SECTION 16: Other information

Text of phrases referred to under heading 3:

- H312 Harmful in contact with skin.
- H318 Causes serious eye damage.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.
- H332 Harmful if inhaled.
- H319 Causes serious eye irritation.

Paragraphs modified from the previous revision:

- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 6: Accidental release measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 14: Transport information
- SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- CAS: Chemical Abstracts Service (division of the American Chemical Society).
- CLP: Classification, Labeling, Packaging.
- DNEL: Derived No Effect Level.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- GefStoffVO: Ordinance on Hazardous Substances, Germany.
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
- IATA: International Air Transport Association.
- IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
- ICAO: International Civil Aviation Organization.
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
- IMDG: International Maritime Code for Dangerous Goods.
- INCI: International Nomenclature of Cosmetic Ingredients.
- KSt: Explosion coefficient.
- LC50: Lethal concentration, for 50 percent of test population.
- LD50: Lethal dose, for 50 percent of test population.
- LTE: Long-term exposure.
- PNEC: Predicted No Effect Concentration.
- RID: Regulation Concerning the International Transport of Dangerous Goods



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	by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.

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