

SAFETY DATA SHEET

VILLASEAL[®] COMP. A

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1 PRODUCT IDENTIFICATION

- **Product details:**
- **Trade name:** VILLASEAL[®] COMP. A
- **Material / preparation use:** Building Chemistry
- **Manufacturer / Supplier:** Villas Austria GmbH
Industriestrasse 18
A-9586 Fürnitz
Tel: +43/ (0) 4257/2241-0 Fax: +43/ (0) 4257/2241-2282
- **Information Department:** Laboratory, e-mail: a.wolte@villas.at
- **Emergency Number:** Laboratory Tel: +43/ (0) 4257/2241/2243 (Monday - Friday: 7:30am – 4:30pm)
Poisoning center Vienna: +43/ (0) 1/406 43 43 0

2 HAZARDS IDENTIFICATION

- **Hazard designation:**




N Dangerous for environment
Xn Irritant
- **Information pertaining to particular dangers for man and environment:**
The product has to be classified acc. to “General classification guideline for preparations of the EC”
R 36/38 Irritating to eyes and skin
R 43 May cause sensitisation by skin contact
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- **Classification system:**
Classification is in line with current EC regulations. It is expanded, however, by information from technical literature and by information from raw material suppliers.
- **Additional information:**
If brought into contact with eyes, the product causes irritation that may last for over 24 hours, and if brought into contact with skin it causes significant inflammation with erythema, scabs, and oedema.
In contact with skin, the product may cause sensitisation of skin. This preparation contains low molecular weight epoxy resins. Cross sensitisation to other epoxies is possible. Avoid also exposure to spray mist and vapour.

3 COMPOSITION / INFORMATION ON COMPONENTS

- **Chemical characterization**
- **Description:** Modified epoxy resin

CAS: 25068-38-6 EC: 500-033-5	Reaction product: Epoxy resin (average molecular weight <=700). Xi, N; R 36/38, R 43, R 51/53	60 -70 %
CAS: 9003-36-5	Reaction product: bisphenol-F-(epichlorhydrin) Xi, N; R 36/38, R 43, R 51/53	15 - 20 %
CAS: 68609-97-2 EC: 271-846-8	Oxiran, Mono[(C12-14-alkyloxy)methyl]derivate Xi; R 38, R 43	12,5 – 15 %

- **Additional information:**
Full text risk- and safety phrases see chap. 16

4 FIRST AID MEASURES

- **General Information:**
Show doctor this safety data sheet in all cases.
- **After inhalation:**
In case of complaints seek medical advice. At unconsciousness lay and transport in stable side position. Ventilate working areas / rooms. The patient is to be removed immediately from contaminated working areas / rooms and rest in a well ventilated area.
- **After skin contact:**
Wash immediately with water and soap. Immediately take off all contaminated clothing. Visit physician at continuous skin irritation.
- **After eye contact:**
Rinse immediately with plenty of water for at least 10 minutes and seek medical advice
- **After swallowing:**
Induce no vomiting, seek medical advice immediately. A suspension of activated charcoal in water may be applied.

5 FIRE FIGHTING MEASURES

- **Suitable extinguishing agents:**
Suitable for all extinguishing agents
- **Specific hazards due to the substance, its combustion products or gases formed:**
Fire can release carbon monoxide (CO)
carbon dioxide (CO₂)
nitrogen oxide (NO_x).
- **Additional information:**
Fire residues and contaminated extinguishing agents must be clean up acc. to local regulations. Collect contaminated water for fire fighting separately, avoid entering into drains. Avoid inhaling the fumes. Wear self contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

- **Personal precautions:**
Wear protective clothing and gloves. Provide sufficient ventilation. Wear breathing protection to prevent vapours / aerosols be inhaled.
- **Environmental precautions:**
Avoid entering into drains, lakes or rivers. Inform public authority after entering drains, ground, lakes or rivers
- **Methods of cleaning up:**
Absorb with liquid-binding material (sand, universal binder, diatomaceous earth), dispose contaminated material acc. to clause 13.

7 HANDLING AND STORAGE

- **Handling:**
- **Information for safe handling:**
Provide sufficient ventilation / exhaust, avoid formation of aerosol. See chapter 8 / Personal protective equipment.
- **Information about protection against explosions and fires:**
Not applicable
- **Storage:**
- **Requirements to store rooms and containers:**
Keep container tightly closed and dry in a cool, well-ventilated place.

- **Combined storage instructions:**
Keep away from food, beverages and animal feed.
- **Further information about storage conditions:**
Protect from frost. Protect from heat and direct sunlight. Protect from atmospheric moisture and water.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **Personal protective equipment:**
General protective and hygienic measures:
Take care for sufficient ventilation or exhaust on the workshop place.
Avoid contact with eyes and skin. Use barrier skin cream.
Remove soiled or soaked clothing immediately.
Do not eat, drink or smoke at work place. Wash hands before breaks and after work.
- **Respiratory protection:**
In case of insufficient ventilation wear self-contained breathing apparatus.
- **Hand protection:**
Protective gloves (Butyl rubber, Nitril rubber)
- **Eye protection:**
Safety glasses
- **Body protection:**
Protective work clothing



9 PHYSICAL AND CHEMICAL PROPERTIES

- **Physical state:** liquid
- **Color:** yellow
- **Smell:** characteristic
- **Change in condition**
- **Melting point / melting range:** not applicable
- **Boiling point / boiling range:** not applicable
- **Flash point:** > 101 °C
- **Self flammability:** not applicable
- **Self ignition:** product is not self igniting
- **Density at 23°C:** 1,16 g/cm³
- **Solubility with water:** insoluble
- **Viscosity: at 23°C:** 800 – 1000 mPa.s
- **Additional Information:**

VOC (solvents)	0 %
VOC (CH)	0 %

10 STABILITY AND REACTIVITY

- **Materials to avoid / dangerous reactions:**
No hazardous reactions when stored and handled according to prescribed instructions.
- **Thermal decomposition and hazardous decomposition products:**
No decomposition if used as prescribed.

11 TOXICOLOGICAL INFORMATION

- **Primary irritant effect:**
 - **On skin:** Irritation
 - **On eye:** Irritation
 - **When swallowed:** Small amount may cause considerable health disorders.
- **Sensitization:**
Sensitization/allergic reaction possible.
Allergic reaction may be observed in sensitive persons, even on very low concentrations.

12 ECOLOGICAL INFORMATION

- **General Information:**

Do not allow product to reach lakes and rivers, ground water or drains and soil,

13 DISPOSAL CONSIDERATIONS

- **Product:**

- **Recommendation:**

Must be disposed of in a special waste disposal unit in accordance with the corresponding regulations. See chapter 15, national regulations.

- **European waste code:**

08 04 10 Disposal of hardened product (Villaseal A + B)

08 04 09 Disposal of not hardened product (Villaseal A)

- **Packaging:**

- **Recommendation:**

Completely emptied packaging may be given for recycling. Empty packaging may still contain hazardous residues. Empty packaging should be removed by a licensed waste contractor.

14 TRANSPORT INFORMATION

- **ADR/RID**

UN-Number:	3082
Packing group:	III
Class:	9
Class. code:	M6
Label No.:	9
Designation of goods:	Environmentally hazardous substance, liquid, n.o.s. contains: Epoxy resin

- **IMO / IMD:**

UN-Number:	3082
Packing group:	III
EMS No.:	F-A, S_F
Class:	9
Marine pollutant:	no
Label No.:	9
Propper shipping name:	Environmentally hazardous substance, liquid, n.o.s. contains: Epoxy resin

- **IATA / ICAO**

UN-Number:	3082
Packing group:	III
Class:	9
Label No.:	9
Correct technical name:	Environmentally hazardous substance, liquid, n.o.s. contains: Epoxy resin

15 REGULATORY INFORMATION

- **Labeling acc. to EEC Directives:**
The product is classified and labelled in accordance with EC directives / relevant national laws. Relevant hazardous ingredients for labelling.

- **Danger symbols:**



N Dangerous for environment
Xn Irritant

- **Contains:**
Reaction product: Epoxy resin (average molecular weight ≤ 700).
Reaction product: bisphenol-F-(epichlorhydrin)
Oxiran, Mono[(C12-14-alkyloxy)methyl]derivate
- **Additional Information:**
Contains epoxy constituents. See information supplied by the manufacturer.

Risk-phrases:

R 36/38 Irritating to eyes and skin
R 43 May cause sensitisation by skin contact
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety-phrases:

24/25 Avoid contact with skin and eyes
28 After contact with skin, wash immediately with plenty of water and soap.
37/39 Wear suitable gloves and eye/face protection.
61 Avoid release to the environment. Refer to special instructions/safety data sheet

National regulations:

GISCODE: RE 1

16 OTHER INFORMATION

The information is based on our contemporary knowledge of the product and its properties. This safety data sheet is not intended to give any guarantee or warranty of product properties and is not creating any legal liability. Any regulation or law, not covered by this data sheet, is to be observed under the responsibility of the recipient and user of our product.

Relevant R-Phrases:

R 36/38 Irritating to eyes and skin
R 43 May cause sensitisation by skin contact
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

- **Department issuing safety data sheet:** Laboratory
- **Contact person:** Laboratory Tel.: +43/ (0) 4257/2241-2243

SAFETY DATA SHEET

VILLASEAL[®] COMP. B

Machen wir's dicht!



1 PRODUCT IDENTIFICATION

- **Product details:**
- **Trade name:** **VILLASEAL[®] COMP. B**
- **Material / preparation use:** Building Chemistry
- **Manufacturer / Supplier:** Villas Austria GmbH
Industriestrasse 18
A-9586 Fürnitz
Tel: +43/ (0) 4257/2241-0 Fax: +43/ (0) 4257/2241-2282
- **Information Department:** Laboratory, e-mail: a.wolte@villas.at
- **Emergency Number:** Laboratory Tel: +43/ (0) 4257/2241/2243 (Monday - Friday: 7:30am – 4:30pm)
Poisoning center Vienna: +43/ (0) 1/406 43 43 0

2 HAZARDS IDENTIFICATION

- **Danger symbols:**



C Corrosive
Xn Harmful
Xi Irritant

- **R Phrases:**
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitization by skin contact.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**
Designation according to 67/548/EEC
- **Additional information:**
The product is harmful after acute exposure and has a serious health risk if inhaled, ingested, or in contact with skin. The product is corrosive. In Contact with the skin, the product causes burning, with destruction of entire thickness of skin tissue. Contact with skin may cause sensitisation.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3 COMPOSITION / INFORMATION ON COMPONENTS

- **Chemical characterization**
- **Description:** Modified polyamine

CAS: 2855-13-2 EC: 220-666-8	3-Aminomethyl-3,5,5-trimethylcyclohexylamin C; R 21/22, 34, 43, 52/53	30 - 50 %
CAS: 100-51-6 EC: 202-859-9	Benzylalkohol Xn; R 20/22	20 - 40 %
CAS: 15520-10-2 EC: 239-556-6	2-Methylpentane-1,5-diamine Xn, C; R35, 20/22	5 - 10 %
CAS: 140-31-8 EC: 205-411-0	2-Piperazin-1-ylethylamine Xn, Xi,C; R 21/22, 34, 43, 52/53	5 - 10 %
CAS: 90-72-2 EC: 202-013-9	2,4,6 Tris-(dimethylaminomethyl)phenol Xn; R 22, 36/38	5 - 10 %
CAS: 1477-55-0 EC: 216-032-5	m-Xylylenediamine Xn, Xi, C; R 20/22, 34, 43, 52/53	5 - 10 %

- **Additional information:**
Full text risk- and safety phrases see chap. 16

4 FIRST AID MEASURES

- **General Information:**
Show doctor this safety data sheet in all cases.
- **After inhalation:**
Provide sufficient ventilation. The patient is to be removed immediately from contaminated working areas / rooms and rest in a well ventilated area. CALL A PHYSICIAN.
- **After skin contact:**
Wash immediately with plenty of water and soap. Immediately take off all contaminated clothing. CONSULT A PHYSICIAN IMMEDIATELY.
- **After eye contact:**
Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. OBTAIN A MEDICAL EXAMINATION. Do not use eyewash or ointment of any kind before obtaining an examination or advice from an ophthalmologist.
- **After swallowing:**
Induce no vomiting, SEEK MEDICAL ADVICE IMMEDIATELY. Do not use milk nor animal or vegetable fats of any kind or bicarbonate.

5 FIRE FIGHTING MEASURES

- **Suitable extinguishing agents:**
Suitable for all extinguishing agents
- **Specific hazards due to the substance, its combustion products or gases formed:**
Fire can release Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxide (NO_x).
- **Additional information:**
Fire residues and contaminated extinguishing agents must be clean up acc. to local regulations. Collect contaminated water for fire fighting separately, avoid entering into drains. Avoid inhaling the fumes. Wear self contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

- **Personal precautions:**
Wear protective clothing and gloves. Provide sufficient ventilation. Wear breathing protection to prevent vapours / aerosols be inhaled.
- **Environmental precautions:**
Avoid entering into drains, lakes or rivers. Inform public authority after entering drains, ground, lakes or rivers
- **Methods of cleaning up:**
Absorb with liquid-binding material (sand, universal binder, diatomaceous earth), dispose contaminated material acc. to clause 13.

7 HANDLING AND STORAGE

- **Handling:**
- **Information for safe handling:**
Provide sufficient ventilation / exhaustion, avoid formation of aerosol. See chapter 8 / Personal protective equipment.
- **Storage:**
- **Requirements to store rooms and containers:**
Keep container tightly closed and dry in a cool, well-ventilated place.
- **Combined storage instructions:**
Keep away from food, beverages and animal feed.
- **Further information about storage conditions:**
Protect from frost. Protect from heat and direct sunlight. Protect from atmospheric moisture and water.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **Personal protective equipment:**

- **General protective and hygienic measures:**

- Take care for sufficient ventilation on the work place. Avoid contact with eyes and skin.

- Use barrier skin cream. Remove soiled or soaked clothing immediately.

- Do not eat, drink or smoke at work place. Wash hands before breaks and after work.

- **Respiratory protection:**

- Use adequate protective respiratory equipment, when above TLV.

- In case of insufficient ventilation use mask with AK2 filters (EN 141).

- **Hand protection:**

- Use protective rubber gloves.

- The use of LLPDE (0,06 mm), nitrile (0,4) or butyl (0,5 mm) gloves are suggested. Latex gloves are not recommended.



- **Eye protection:**

- Tightly fitting safety glasses or face shield



- **Body protection:**

- Protective work clothing

9 PHYSICAL AND CHEMICAL PROPERTIES

- **Physical state:** liquid
- **Color:** light yellow
- **Smell:** ammonia
- **Change in condition**
- **Melting point / melting range:** not applicable
- **Boiling point / boiling range:** not applicable
- **Flash point:** > 100 °C
- **pH:** app. 11
- **Self flammability:** not applicable
- **Self ignition:** product is not self igniting
- **Density at 23°C:** 0,95 g/cm³
- **Solubility with water:** partly soluble
- **Viscosity at 23°C:** 50 mPa.s

10 STABILITY AND REACTIVITY

- **Materials to avoid / dangerous reactions:**
No hazardous reactions when stored and handled according to prescribed instructions.
- **Thermal decomposition and hazardous decomposition products:**
No decomposition if used as prescribed.

11 TOXICOLOGICAL INFORMATION

- **Route(s) of entry:**
 - **Ingestion:** Yes
 - **Inhalation:** Yes
 - **Contact:** Yes
- **Toxicological information relating to the main substances in the preparation:**

2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine
LD50 oral/rat:	1030 mg/kg
1477-55-0	m-xylylenediamine
LD50 (rat, oral):	930 mg/kg
LC50 (rat, inhal.):	2,4 mg/l/4 h

- **Corrosive / Irritating properties:**
 - **Skin:** Corrosive. The product can cause burns by contact.
 - **Eye:** The product can cause damage to eyes by contact
 - **Inhalation:** Irritation
 - **Swallowing:** Causes burns.
- **Sensitizing / allergic properties:**
Frequent contact may cause sensitization. Allergic reaction may be observed in sensitive persons, even on very low concentrations.
- **Cancerogenic Effects:**
No effects known.
- **Mutagenic Effects:**
No effects known.
- **Teratogenic Effects:**
No effects known.

12 ECOLOGICAL INFORMATION

- **Biodegradability:**
No data available for the preparation.
- **List of environmentally dangerous substances in this preparation and their classification:**
 - 30 – 40 % 3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2 EC: 220-666-8
N. EEC/67/548: 612-067-00-9
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 7 – 10 % 2-piperazin-1-ylethylamine CAS: 140-31-8 EC: 205-411-0
N. EEC/67/548: 612-065-00-8
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 7 – 10 % m-xylylenediamine CAS: 1477-55-0 EC: 216-032-5
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **General Information:**
Do not allow product to reach lakes and rivers, ground water or drains and soil,

13 DISPOSAL CONSIDERATIONS

- **Product:**
Recommendation:
Must be disposed of in a special waste disposal unit in accordance with the corresponding regulations. See chapter 15, national regulations. Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.
- **Packaging:**
Recommendation:
Completely emptied packaging may be given for recycling. Empty packaging may still contain hazardous residues. Empty packaging should be removed by a licensed waste contractor.
- **European waste code:**
08 04 09 Disposal of not hardened product (Villaseal B)

14 TRANSPORT INFORMATION *)

- **ADR/RID**
 - UN-Number:** 2735
 - Packing group:** III
 - Class:** 8
 - Class. code:** C9
 - Label No.:** 8
 - Designation of goods:** Corrosive liquid, n.o.s. Contains Polyamine, (3-Aminomethyl-3,5,5-trimethylcyclohexylamine)
- **IMO / IMD:**
 - UN-Number:** 2735

Packing group: III
EMS No.: F-A, S-B
Class: 8
Marine pollutant: no
Label No.: 8
Propper shipping name: Corrosive liquid, n.o.s. contains: Polyamine, (3-Aminomethyl-3,5,5-trimethylcyclohexylamine)

- **IATA / ICAO**
- UN-Number:** 2735
- Packing group:** III
- Class:** 8
- Label No.:** 8
- Correct technical name:** Corrosive liquid, n.o.s. contains: Polyamine, (3-Aminomethyl-3,5,5-trimethylcyclohexylamine)

15 REGULATORY INFORMATION

- **Labeling acc. to EEC Directives:**
Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH).

- **Danger symbols:**



C Corrosive
 Xn Harmful
 Xi Irritant

- **Contains:**

benzyl alcohol
 3-aminomethyl-3,5,5-trimethylcyclohexylamine
 2-Methylpentane-1,5-diamine
 2-piperazin-1-ylethylamine
 m-xylenediamine

Safety-phrases:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 R34 Causes burns.
 R43 May cause sensitization by skin contact.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety-phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 28 After contact with skin, wash immediately with plenty of water and soap.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
 S56 Dispose of this material and its container to hazardous or special waste collection point.
 S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

16 OTHER INFORMATION

The information is based on our contemporary knowledge of the product and its properties. This safety data sheet is not intended to give any guarantee or warranty of product properties and is not creating any legal liability. Any regulation or law, not covered by this data sheet, is to be observed under the responsibility of the recipient and user of our product.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 R34 Causes burns.
 R43 May cause sensitization by skin contact.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Department issuing safety data sheet:** Laboratory *) Section changed
- **Contact person:** Laboratory Tel.: +43/ (0) 4257/2241-2243