



VOLTECO Spa

Revision n. 2.0

Revision date 05/03/2021

REPOSOL B Component

Printed on 05/03/2021

Page nr. 1 / 7

SECTION 1. Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Name REPOSOL Component B

1.2. Identified relevant uses of the substance or mixture and non-recommended uses

Description/Use Hardening for epoxy resin

UFI 8770-F0M9-Q00N-702E

1.3. Supplier information of the safety data sheet

Company Name VOLTECO Spa
Address Via delle Industrie, 47
District and Country 31050 Ponzano Veneto (TV) - IT
Telephone +39 0422 9663
Fax +39 0422 966401
e-mail address of the person in charge of the safety data sheet volteco@volteco.it

1.4. Emergency telephone number

For urgent enquiries, please contact +39 0422 9663

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture

The product is classified as dangerous pursuant to the provisions stipulated in EC Regulation No. 1272/2008 (CLP) as amended. The product requires a safety data sheet that complies with the provisions of EC Regulation No. 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in Sections 11 and 12 of this data sheet.

2.1.1 EC Regulation No. 1272/2008 as amended

Classification and hazard statements

Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1B	H317	May cause an allergic skin reaction.
Eye Irrit. 2	H319	Causes serious eye irritation.

2.2 Label elements

Hazard labelling pursuant to EC Regulation No. 1272/2008 (CLP) as amended.

Hazard pictograms



Warnings Attention

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Precautionary tips

P264	Wash thoroughly after use.
P272	Contaminated work clothing should not be taken out of the workplace.
P280	Wear protective gloves/clothing, protect eyes/face.
P333+P313	In case of irritation or a rash, seek medical attention.
P337+P313	If eye irritation persists, seek medical attention.
P501	Dispose of the product/recipient in the separate waste collection system implemented by your municipality.

Contains Fatty acids, tall-oil, polymers with bisphenol A, diethylenetriamine, epichlorohydrin and tetraethylenepentamine, N,N-dimethylpropane-1,3- diamine.



VOLTECO Spa

Revision n. 2.0

Revision date 05/03/2021

REPOSOL B Component

Printed on 05/03/2021

Page nr. 2 / 7

2.3 Other hazards

Based on available data, the product does not contain PBT or vPvB substances in percentages exceeding 0.1%.

SECTION 3. Composition/information on ingredients

3.1 Substance/Mixture

Not relevant.

Name	CAS	EC	%	Classification
Hazardous component				
<i>Fatty acids, tall-oil, polymers with bisphenol A, diethylenetriamine, epichlorohydrin and tetraethylenepentamine</i>	68951-85-9	-	≥ 90	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
<i>N,N-dimethylpropane-1,3-diamine</i> (N° REACH: 01-2119486842-27-xxxx)	109-55-7	203-680-9	3 <= C < 9	Flam. Liq. 3, H226 Acute Oral Tox. 4, H302 Acute Dermal Tox. 4, H312 Eye Dam. 1., H318 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT SE 3, H335

Declaration of the ingredients in accordance with EC Regulation No. 1272/2008 (CLP)

The full wording of the Hazard statements (H) is given in Section 16 of the data sheet.

SECTION 4. First aid measures

4.1 Description of the first aid measures

General notes	Immediately remove contaminated clothing. When in doubt or if symptoms continue, seek medical attention. If the individual loses consciousness, transport him/her in a stable position on his/her side. Do not administer anything.
Contact with skin	Wash immediately with plenty of water and soap. Remove the contaminated clothing and dispose of them in a safe manner.
Contact with eyes	Wash with running water for several minutes, keeping the eyelids open. Seek medical attention if the pain persists.
Swallowing	Rinse mouth with water. Do not induce vomiting. Call a doctor immediately.
Inhalation	Take to a well-ventilated area, in case of ailments seek medical attention.

4.2 Main symptoms and effects, both acute and delayed

No other information is available.

4.3 Indication of any immediate medical attention and special treatment needed

No other information is available.

SECTION 5. Fire-fighting measures

5.1 Extinguishing agents

Suitable extinguishing agents	Water, CO ₂ , foam, alcohol-resistant foam, extinguishing powder.
Unsuitable extinguishing agents	Water jets.

5.2 Special hazards arising from the substance or mixture

The formation of toxic products during combustion: carbon monoxide (CO); carbon dioxide (CO₂)

5.3 Recommendations for those in charge of putting out fires

In case of fire and/or explosion do not inhale the smoke.

Coordinate fire fighting measures in the surrounding areas.

Prevent the fire fighting water from being released into drains and water courses.

Collect the contaminated fire fighting water.

Use the extinguishing equipment with the due precautions at a reasonable distance.

Protective clothing	Wear a self-contained breathing apparatus.
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SECTION 6. Accidental release measures



VOLTECO Spa

Revision n. 2.0

Revision date 05/03/2021

REPOSOL B Component

Printed on 05/03/2021

Page nr. 3 / 7

6.1 Personal precautions, protective equipment and emergency procedures

For whoever is not working on it directly Move people to a safe place. Ventilate the affected area

For whoever works on it directly Wear a breathing apparatus in case of exposure to vapour/powder/aerosol/gas.

6.2 Environmental precautions

Prevent the product from entering the drains, surface water, ground water and confined areas.

Collect and treat the polluted water.

6.3 Methods and materials for containment and cleaning up

Recommendations on leakage clean-up methods Collect with absorbent material (sand, peat, sawdust).
Collect the spilled material: sawdust, kieselgur (diatomite), sand, universal binder.

Suitable containment techniques Use of absorbent materials.

Other information relative to leaks and releases Place in specific disposal containers.
Ventilate the affected area.

6.4 Reference to other sections

Hazardous combustion products: See Section 5

Refer to Chapter 7 for information on safe handling.

Refer to Chapter 8 for information on personal protective equipment.

Compatible materials: See Section 10.

Refer to Chapter 13 for information on disposal.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Recommendations Fire and aerosol and powder formation prevention measures
- Use local and general ventilation.
Only use in well-ventilated places.: Handling of incompatible substances or mixtures.
- Keep away from: No information available.

Generic recommendations on professional hygiene Wash hands after use.
Do not eat, drink or smoke in work zone.

7.2 Conditions for safe storage, including any incompatibility

Keep the containers closed hermetically in a dry and cool place (Temperature between 10 °C and 35 °C).

Avoid direct sunlight.

Store in the original container, firmly closed.

7.3 Specific end uses

See Section 16.

SECTION 8. Exposure control/personal protection

8.1 Control parameters

DNEL exposure limit values

Name of product/ingredient	Type	Exposure level	Exposure time	Effects	Value	Population
<i>N,N</i> -dimethylpropane-1.3- diamine CAS: 109-55-7	DNEL	Inhalation	Chronic	Systemic	4.9 mg/m ³	Workers
	DNEL	Inhalation	Acute	Systemic	9.8 mg/m ³	Workers

PNEC exposure limit values

Name of product/ingredient	Type	Environmental detail	Value	Exposure time	Aquatic organism
<i>N,N</i> -dimethylpropane-1.3- diamine CAS: 109-55-7	PNEC	Freshwater	0.034 mg/l	Short-time	Aquatic organisms
	PNEC	Sea water	0.003 mg/l	Short-time	Aquatic organisms
	PNEC	Sediments in freshwater	0.221 mg/kg	Short-time	Aquatic organisms
	PNEC	Sediments in salt water	0.022 mg/kg	Short-time	Aquatic organisms
	PNEC	Land	0,024 mg/kg	Short-time	Aquatic organisms

8.2 Exposure controls

**Personal protective measures
(personal protective equipment)**
Protective clothing against liquid
chemical agents



Suitable technical controls

General ventilation

Hygiene measures

Keep away from food, beverages and feed. Remove contaminated clothing immediately. Wash your hands before breaks and/or at the end of the work shift.

Eyes/face protection

Protective mask not necessary. Airtight protective goggles.

Hand protection

Protective gloves. The glove material has to be impermeable and stable towards the product, pursuant to regulation EN 374. Check the seal/tightness before use.

Respiratory protection

When local ventilation is insufficient, wear a breathing apparatus.

Body protection

Light protective clothing.

Environmental exposure controls

Use appropriate containers to avoid environmental contamination. Keep away from drains, surface water and ground water.

SECTION 9. Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Description	Values
Physical state	Liquid
Colour	Amber
Odour	Amine
Boiling point	Not determined
Flash point	Not determined
Density	Not determined
Solubility in water	Non-soluble
Solubility in organic solvents	Not determined
pH	Not determined
Viscosity	Not determined
Specific weight of the vapours	Not determined
Flammability limit in the air	Not determined
Auto-ignition temperature	Not determined

SECTION 10. Stability and reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

The product does not decompose when used correctly.

10.3 Possibility of hazardous reactions

There are no known hazardous reactions.

10.4 Conditions to be avoided

No other information is available.

10.5 Incompatible materials

No other information is available.

10.6 Hazardous decomposition products

See Section 5.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

There is no experimental data for the mixture.

Classification according to GHS (1272/2008/CE, CLP)

Acute toxicity



VOLTECO Spa

Revision n. 2.0

Revision date 05/03/2021

REPOSOL B Component

Printed on 05/03/2021

Page nr. 5 / 7

It is not classified as acutely toxic.

Acute toxicity of the components of the mixture

Name of product/ingredient	CAS	Type	Species	Dose
<i>N,N</i> -dimethylpropane-1,3-diamine	109-55-7	LD50 Oral	Rat	377.1 mg/kg

Estimate of the acute toxicity of the components of the mixture

Product name	CAS	Type	Dose
<i>N,N</i> -dimethylpropane-1,3-diamine	109-55-7	Oral	377.1 mg/kg
	109-55-7	Dermal	1100 mg/kg

Primary irritant

Contact with skin	Causes skin irritation.
Contact with eyes	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	It is not classified as mutagenic on germ cells. Based on the available data the classification criteria is not fulfilled.
Carcinogenicity	It is not classified as carcinogenic. Based on the available data the classification criteria is not fulfilled.
Toxic for reproduction	It is not classified as toxic for reproduction. Based on the available data the classification criteria is not fulfilled.
Specific toxicity for target organs (STOT) - Single exposure	It is not classified as toxic specifically for target organs (single exposure).
Specific toxicity for target organs (STOT) - Repeated exposure	It is not classified as toxic specifically for target organs (repeated exposure). Based on the available data the classification criteria is not fulfilled.
Risk if inhaled	It is not classified as hazardous in case of inhalation. Based on the available data the classification criteria is not fulfilled.

SECTION 12. Ecological information

Use the product according to the directions set forth in the technical data sheet.

Do not release the product into the environment.

12.1 Ecotoxicity

Aquatic toxicity

Name of product/ingredient	CAS	Type	Active concentration	Assessment method
<i>N,N</i> -dimethylpropane-1,3-diamine	109-55-7	LC50 (96 h)	122 mg/l	Fish
	109-55-7	LC50/48 h	59.46 mg/l	Aquatic invertebrates
	109-55-7	ErC50/72 h	34 mg/l	Algae

12.2 Persistence and degradability

Information not available.

12.3 Bioaccumulative potential

Information not available.

12.4 Mobility in the soil

Do not release in ground water, waterways or sewers.

12.5 Results of the PBT and vPvB evaluation

Based on available data, the product does not contain PBT or vPvB substances in percentages exceeding 0.1%.

12.6 Other adverse effects

Information not available.

SECTION 13. Disposal considerations

13.1 Waste processing methods

Waste treatment - Pertinent information

Dispose of the product/recipient in any authorised waste management centre.

Disposal through wastewater - Pertinent information

Do not empty into drains.

Do not release into the environment.



VOLTECO Spa

Revision n. 2.0

Revision date 05/03/2021

REPOSOL B Component

Printed on 05/03/2021

Page nr. 6 / 7

Refer to special instructions/safety data sheet.

13.2 Contaminated packaging

Treatment of container/packaging waste

Completely empty packages can be recycled.

Handle the contaminated packaging in the same way as you would the substance.

Observations

Refer to the pertaining national or regional regulations.

Waste must be sorted based on the categories that can be treated separately at local or national waste management plants.

SECTION 14. Transport information

-	ADR/RID - ADN/RID	IMDG	IATA
14.1 UN number	Not subject to transport regulations	Not subject to transport regulations	Not subject to transport regulations
14.2 UN Shipping name	Not relevant	Not relevant	Not relevant
14.3 Hazard classes	None	None	None
14.4 Packaging groups	Not relevant	Not relevant	Not relevant
14.5 Hazardous for the environment Marine Pollutant	Not applicable.	Not applicable.	Not applicable.
14.6 Special precautions	No available additional informations.	No available additional informations.	No available additional informations.
14.7 Bulk transport according to Annex II of MARPOL 73/78 and the IBC Code	Not subject to ADR, RID and ADN regulations	Not subject to IMDG regulations	Not subject to ICAO-IATA regulations

SECTION 15. Regulatory information

15.1 Specific standards and regulations on health, safety and environment for the substance or mixture

No other information is available.

15.2 Chemical safety assessment

No chemical safety assessment has been conducted for the mixture and the substances contained in it.

SECTION 16. Other information

Main references and data sources

Regulation (EC) No. 1272/2008 relative to the Classification, Labelling and Packaging of the substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of hazardous goods via road, rail or ship (ADR/RID/ADN).

International maritime code for transport of Dangerous Goods (IMDG)

Dangerous Goods Regulations (DGR) for the air transport (IATA)

Classification procedure

Physical and chemical properties: Classification based on the mixture subjected to testing.

Hazards for health, Hazards for the environment: The mixture classification method is based on its components (additive formula).

Text of hazard (H) phrases mentioned in Sections 2-3 of the data sheet:

H226	Flam. Liq. 3	Flammable liquid and vapours
H302	Acute Oral Tox. 4	Harmful if swallowed
H312	Acute Dermal Tox. 4	Harmful in contact with skin.
H314	Skin Corr. 1B	Causes severe skin burns and eye damage.
H315	Skin Irrit. 2	Causes skin irritation.
H317	Skin Sens. 1	May cause an allergic skin reaction.
H318	Eye Dam. 1	Causes serious eye damage.
H319	Eye Irrit. 2	Causes serious eye irritation.
H335	STOT SE 3	May irritate the respiratory tract.

Abbreviations and acronyms

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

- CAS NUMBER: Chemical Abstract Service NUMBER

- CLP: Classification, Labelling, Packaging (EC Regulation No. 1272/2008)

- DNEL: Derived no effect level

- EINECS: European Inventory of existing Commercial Chemical substances



VOLTECO Spa

Revision n. 2.0

Revision date 05/03/2021

REPOSOL B Component

Printed on 05/03/2021

Page nr. 7 / 7

- GefStoffVO: Ordinance on hazardous substances in Germany
- GHS: Global harmonised system to classify and label Chemical products
- IATA: International Air transport Association
- IATA DGR: Regulations to transport Dangerous Goods of the International Air transport Association
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions of the "International Civil Aviation Organization"
- IMDG: International maritime code for transport of Dangerous Goods
- LC50: Lethal concentration for 50% of the test population
- LD50: Lethal dose for 50% of the test population
- LTE: Long-term exposure
- PNEC: Predicted no-effect concentration
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- STE: Short-time exposure
- STEL: Short-time exposure limit
- STOT: specific organ Toxicity
- TLV: occupational exposure threshold limit value
- TWA: 8-hour time-weighted average exposure limit
- OEL: EU occupational exposure limit value
- VLE: occupational exposure limit value
- WGK: water hazard class in Germany
- N.A.: Not applicable.
- N.D.: Not available

This safety data sheet was developed in compliance with Annex II - Guide to the compilation of Safety Data Sheets of EC Regulation No. 1907/2006 - EC Regulation No. 453/2010.

The information contained herein is based on our knowledge at the above date.

These refer solely to the indicated product and do not constitute a guarantee of particular quality.

The user is required to ensure the suitability and completeness of this information in relation to the specific intended use.

This sheet supersedes and replaces any previous edition.