



Zentralverband Europäischer Lederhändler eG

Safety data sheet According to Regulation No. 1907/2006

Printing date: 06.09.2017

Version number 7.1

Revision: 09.09.2015

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

ZEL HARD-FOAM 500 COMP A

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

Recommended use: polyurethane component

1.3 Details of the supplier of the safety data sheet

Company/Manufacturer/Supplier:

Zentralverband Europäischer Lederhändler eG
Porschestraße 14
D-44809 Bochum
+49-234-3381-0
+49-234-3381-200
info@zel.eu · www.zel.eu

Informing department:

Mr. Christof Klein
+49-234-3381-101 (Mo. - Fr. 07:00-16:00 h)
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1.4 Emergency phone [**GIZ BONN + 49 228 / 19240**](tel:+4922819240)

2 Hazards Identification

2.1 Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

No need for classification according to GHS criteria for this product.

2.2 Label elements

Globally Harmonized System, EU (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

2.3 Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered.

3 Composition/Information on Ingredients

3.1 Substances

Not applicable



3.2 Mixtures

Chemical nature

Preparation based on: polyol, catalyst, stabilizing agents

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

bis (2-dimethylaminoethyl)(methyl)amine

Content (W/W): $\geq 0.1\%$ - $< 1\%$
CAS Number: 3030-47-5
EC-Number: 221-201-1
REACH registration number: 01-2119979537-18
INDEX-Number: 612-109-00-6

Acute Tox. 4 (oral)
Acute Tox. 3 (dermal)
Skin Corr./Irrit. 1B
Acute Tox. 3 (Inhalation - vapour)
Aquatic Chronic 3
H302, H311, H314, H331, H412

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

4 First-Aid Measures

4.1 Description of first aid measures

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No significant reaction of the human body to the product known. Hazards:

No hazards anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.



5 Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam, carbon dioxide

5.2 Special hazards arising from the substance or mixture

carbon monoxide, Carbon dioxide, nitrogen oxides
The substances/groups of substances mentioned can be released in case of fire.

5.3 Advice for fire-fighters

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6 Accidental Release Measures

High risk of slipping due to leakage/spillage of product.

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

6.2 Environmental precautions

Do not empty into drains. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of contaminated material as prescribed.

6.4 Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7 Handling and Storage

7.1 Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion: No special precautions necessary.



7.2 Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants.

Suitable materials for containers: Carbon steel (Iron), High density polyethylene (HDPE), Low density polyethylene (LDPE), tinned carbon steel (Tinplate), Stainless steel 1.4301 (V2)

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

7.3 Specific end use(s)

For the relevant identified use listed in Section 1, the advice mentioned in this section 7 is to be observed.

8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with occupational exposure limits

Does not contain components with substance specific occupational exposure limits.

Components with PNEC

3030-47-5: methylbis(2-dimethylaminoethyl)amine
freshwater: 0.0549 mg/l
marine water: 0.00549 mg/l
intermittent release: 0.549 mg/l
STP: 100 mg/l
sediment (freshwater): 0.398 mg/kg
sediment (marine water): 0.0398 mg/kg
soil: 0.0472mg/kg

Components with DNEL

3030-47-5: methylbis(2-dimethylaminoethyl)amine
worker: Long-term exposure- systemic effects, dermal: 0.150 mg/kg
worker: Long-term exposure- systemic effects, Inhalation: 0.529 mg/m³



8.2 Exposure controls

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Standard work clothes and shoes.

General safety and hygiene measures

Wearing of closed work clothing is required additionally to the stated personal protection equipment. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form:	liquid
Colour:	yellowish
Odour:	moderate odour
Odour threshold:	not applicable
pH value:	approx. 6 - 8 (20 °C)
solidification temperature:	< 0 °C
Boiling point:	> 150 °C
Flash point:	> 110 °C (DIN 51758)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.



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Flammability:	not flammable
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.
Upper explosion limit:	For liquids not relevant for classification and labelling.
Ignition temperature:	> 250 °C
Vapour pressure:	< 10 mbar (20 °C)
Density:	> 1.0 g/cm ³ (DIN 51757) (20 °C)
Relative density:	> 1.0 (20 °C)
Relative vapour density (air):	not applicable
Solubility in water:	partly soluble
Partitioning coefficient n-octanol/water (log Kow):	not applicable
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	not determined
Explosion hazard:	not explosive

9.2 Other information

Miscibility with water:
partly miscible

Other Information:
If necessary, information on other physical and chemical parameters is indicated in this section.

10 Stability and Reactivity

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.
Corrosion to No corrosive effect on

10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3 Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4 Conditions to avoid

Temperature: < 0 °C



10.5 Incompatible materials

Substances to avoid:

acids, oxidizing agents, isocyanates

10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

11 Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion.

Information on: bis(2-dimethylaminoethyl)(methyl)amine

Experimental/calculated data:

LD50 rat (oral): 1,330 mg/kg (ca. 1.600 µl/kg) (similar to OECD guideline 401)

Irritation

Assessment of irritating effects:

Not irritating to the eyes. Not irritating to the skin.

Respiratory/Skin sensitization

Assessment of sensitization:

The chemical structure does not suggest a sensitizing effect.

Germ cell mutagenicity

Assessment of mutagenicity:

The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity

Assessment of carcinogenicity:

The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The chemical structure does not suggest a specific alert for such an effect.



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Developmental toxicity

Assessment of teratogenicity:

The chemical structure does not suggest a specific alert for such an effect.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Repeated dermal uptake of the substance did not cause substance-related effects. Repeated inhalative uptake of the substance did not cause substance-related effects. Repeated oral uptake of the substance did not cause substance-related effects.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

12 Ecological Information

12.1 Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Information on: bis(2-dimethylaminoethyl)(methyl)amine

Toxicity to fish:

LC50 (96 h) 157 mg/l, Oncorhynchus mykiss (OECD Guideline 203, static)

The statement of the toxic effect relates to the analytically determined concentration.

LC50 (96 h) approx. 220 mg/l, Leuciscus idus (DIN 38412 Part 15, static)

The details of the toxic effect relate to the nominal concentration. After neutralization a reduction in harmful effect can be observed.

Information on: bis(2-dimethylaminoethyl)(methyl)amine



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Microorganisms/Effect on activated sludge:

EC20 (0.5 h) > 1,000 mg/l, activated sludge, domestic (OECD Guideline 209, aquatic)

The details of the toxic effect relate to the nominal concentration. Limit concentration test only (LIMIT test).

EC20 (0.5 h) > 660 mg/l, activated sludge, industrial (OECD Guideline 209, aquatic)

The details of the toxic effect relate to the nominal concentration. Limit concentration test only (LIMIT test).

12.2 Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Poorly biodegradable.

Elimination information:

Poorly

biodegradable.

12.3 Bioaccumulative potential

Assessment bioaccumulation potential:

Does not significantly accumulate in organisms.

12.4 Mobility in soil

Assessment transport between environmental compartments: Adsorption

in soil: Adsorption to solid soil phase is not expected.

12.5 Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria.

12.6 Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

12.7 Additional information

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

Other ecotoxicological advice:

Do not allow to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.



13 Disposal Considerations

13.1. Waste treatment methods

Incinerate in suitable incineration plant, observing local authority regulations.

Waste key:

07 02 08 x other still bottoms and reaction residues

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14 Transport Information

Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Inland waterway transport

ADN

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable



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Special precautions for user	None known
Transport in inland waterway vessel:	Not evaluated

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.1 UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2 UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3 Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4 Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5 Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.



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14.6 Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

15 Regulatory Information

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

Prohibitions, Restrictions and Authorizations

If it is intended to use materials for the manufacture of consumer goods (e. g. products which will come into contact with foodstuffs or with the skin, toys) or medical products, national and international regulations have to be observed. Where no regulations exist, consumer goods or medical products must at least comply with European legislation. We recommend contacting our Sales and our Product Safety departments.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2 Chemical Safety Assessment

Chemical Safety Assessment not yet performed due to registration timelines. Exposure scenarios for the mixture can not be provided at the moment because exposure scenarios are not yet available for all relevant substances due to registration timelines. For advice on essential measures see sections 7 and 8 of this safety data sheet.

16 Other Information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Aquatic Chronic H302	Hazardous to the aquatic environment - chronic Harmful if swallowed.
H311	Toxic in contact with skin.



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H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H412	Harmful to aquatic life with long lasting effects.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.