

SAFETY DATA SHEET



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Turbobond Powerglue

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

1.1 Product identifier

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1.3 Details of the supplier of the safety data sheet

Supplier:

ALFA LAVAL Tumba AB

Manufacture:

M SEALS A/S

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

Hans Stahles väg
SE-147 80 Tumba
Sweden

Bybjergvej 13
3060 Espergaerde
Denmark

Tel: +46 8 53 06 50 00
Fax: + 46 8 53 06 52 59

Are of use: Cyanoacrylate based adhesive

e-mail: sds.question@alfalaval.com

1.4 Emergency telephone number: Dial in case of emergency poisoning and ask for Poison Information both day and night. Dial + 46 (0) 8-331231 if you have other questions concerning acute poisonings mon-fri 9.00-17.00

2. Hazards identification

2.1 Classification of the substance or mixture Xi; R36/37/38

2.2 Label elements

Hazard pictograms

Xi



Irritant

Risk phrases

R36/37/38 Irritating to eyes, respiratory system and skin

Safety phrases

S23 Do not breathe vapour
S24/25 Avoid contact with skin and eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S51 Use only in well-ventilated areas

Ingredients to be shown on label Additional labeling

Ethyl-2-cyanoacrylate
Cyanoacrylate.
Warning.
May quickly bond skin and eyes. Keep away from children.

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2.3 Other hazards May in a few seconds bond skin and eyelids.

3. Composition/information on ingredients

3.2 Mixtures

Declaration of the constituents according to CLP 1272/2008/EC

Substances	Registration No.	Weight - (%)	CAS No.	EC No	Classification
Ethyl-2-cyanoacrylate	-	>10	7085-85-0	215-090-9	Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 <i>Substance with exposure limit.</i>

Declaration of ingredients constituents to 1999/45/EC

Substances	Registration No.	Weight - (%)	CAS No.	EC No	Classification
Ethyl-2-cyanoacrylate	-	>10	7085-85-0	215-090-9	Xi; R36/37/38 <i>Substance with exposure limit.</i>

See section 16 for explanation to R-phrases and/or Hazard statements

4. First aid measures

4.1 Description of first aid measures

General recommendations

Consult a physician. Show this safety data sheet to a physician.

First aid – eye contact

Rinse immediately with a gentle stream of lukewarm water (20-30 °C). Do not panic and do not force apart glued eyelids.

Transport the injured person immediately to hospital or ophthalmologist. Continue rinsing eyes during transportation.

Get medical attention.

First aid- skin contact

Rinse the affected area with soap and water.

First aid- ingestion

Get medical attention immediately.

At apnea/breathing difficulties, give artificial respiration/oxygen.

First aid- inhalation

Provide fresh air and rest.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes, respiratory system and skin
May in a few seconds' bond skin and eyelids.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician: treat shortness of breath and irritation of the lungs with dexamethasone-dosage aerosol.

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5. Firefighting measures

5.1 Extinguishing media	Chemical foam, water spray or carbon dioxide.
5.2 Special hazards arising from the substance or mixture	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion for example CO and NOx.
5.3 Advice for firefighters	Wear self-contained breathing apparatus. Do not allow fire fighting water to enter drainage or sewage water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Use personal protection clothing according to section 8. Ensure good ventilation.
6.2 Environmental precautions	Do not contaminate surface water, drains or natural watercourses.
6.3 Methods and material for containment and cleaning up Large/Small spills	Remove with liquid-absorbent material (sand, peat, sawdust).
6.4 Reference to other sections	Personal protection, see section 8. Disposal, see section 13.

7. Handling and storage

7.1 Precautions for safe handling	Ensure adequate ventilation. The container is opened with caution. Avoid contact with skin and eyes. Wash hands after contact with product. Avoid breathing vapor or mist. Keep away from sources of ignition – no smoking.
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a cooled areas. Apart from water, alkalis and amines.
7.3 Specific end use	No information

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8. Exposure controls/personal protection

8.1 Control parameters

National occupational exposure limit values that correspond to Community occupational exposure limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(1) of Commission Decision 95/320/EC

Substance	CAS No	Limit value – Short term		Limit value - 8 h		Notifications
		ppm	mg/m ³	ppm	mg/m ³	
Ethyl-2-cyanoacrylate Reference: GESTIS United Kingdom	7085-85-0	0.3	1.5			

8.2 Exposure controls

Appropriate engineering controls

Design working places and working practices to prevent direct contact. Ensure good ventilation.

Hygiene measures

Avoid contact with skin and eyes. Wash hands after contact with product, especially before eating, drinking and smoking. Protect your skin with preventive skin cream.

Eye/face protection

Tightly fitting safety goggles.

Hand protection

Chemical resistant gloves.

Respiratory protection

In case of insufficient ventilation use breathing apparatus (filter type B).

Other protection

Protective clothing is recommended.

Environmental exposure controls

See section 6.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid
Odour	Pungent odor
Odour threshold	1-2 ppm
pH (X °C)	No information
Melting point/freezing point	No information
Initial boiling point and boiling range	>200 °C
Flash point	83 °C (Ethyl-2-cyanoacrylate)
Evaporation rate	No information
Flammability (solid, gas)	No information
Upper/lower flammability or explosive limits	No information
Vapour pressure	No information
Vapour density	No information
Relative density	No information
Solubility(ies)	Almost insoluble in water.
Partition coefficient: n-octanol/water	No information
Auto-ignition temperature	No information
Decomposition temperature	No information
Viscosity	2-20000 m Pas, tixotropic
Explosive properties	No information
Oxidising properties	No information
9.2 Other information	Density 1.07 g/cm ³ at 20 °C

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10. Stability and reactivity

10.1 Reactivity	Reacts with water, alkali (lye) and amines.
10.2 Chemical stability	Stable under recommended storage and handling.
10.3 Possibility of hazardous reactions	Polymerization during heat
10.4 Conditions to avoid	No information.
10.5 Incompatible materials	Water, alkali (lye) and amines.
10.6 Hazardous decomposition products	None known. During fire, incompletely degraded coal and nitrogen compounds, may be formed, see section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity	Ethyl-2-cyanoacrylate: Irritating to eyes (rabbit). Irritating to skin (rabbit). LD50 ingestion rat >5 mg/l.
Irritation	Irritating to eyes, respiratory system and skin. Inhalation irritates the mucous membranes. Pastes quickly together skin and can therefore, at the carelessness, prevent skin damage. Quickly pastes together eyelids.
Corrosivity	No information.
Sensitisation	No information.
Repeated dose toxicity	No information.
Carcinogenicity	No information.
Mutagenicity	No information.
Toxicity for reproduction.	No information.

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12. Ecological information	
12.1 Toxicity	No values.
12.2 Persistence and degradability	No information.
12.3 Bioaccumulative potential	BCF 2.45
12.4 Mobility in soil	No information.
12.5 Results of PBT and vPvB assessment	No information.
12.6 Other adverse effects	Prevent discharge of product to sewers, surface and ground water.

13. Disposal considerations	
13.1 Waste treatment methods	Product and container (which cannot be cleaned) should be disposed in accordance with local and national regulations.
EWC code:	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

14. Transport information			
	ADR/RID-S	IMDG	IATA
14.1 UN number	Not classified as dangerous goods.	Not classified as dangerous goods.	Not classified as dangerous goods.
14.2 UN proper shipping name	Not relevant.	Not relevant.	Not relevant.
14.3 Transport hazard class(es)	Not relevant.	Not relevant.	Not relevant.
14.4 Packing group	Not relevant.	Not relevant.	Not relevant.
14.5 Environmental hazards	Not relevant.	Not relevant.	Not relevant.
14.6 Special precautions for user	Not relevant.	Not relevant.	Not relevant.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not relevant.	Not relevant.	Not relevant.

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15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	Gestis, International Limit Values European Waste Catalogue and Hazardous Waste List
15.2 Chemical safety assessment	No.

16. Other information

Hazard statements/Risk phrases	R36/37/38 Irritating to eyes, respiratory system and skin H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation
Important changes have been made in section	General update according to EU 453/2010.

LIMITATION OF LIABILITY

This document is only intended to be used as guidance as regards the risks of which we are aware that are associated with the product. Every individual who works with the product or in close proximity of it must receive suitable training. Individuals who come into contact with the product must be capable of using their own judgement as regards conditions or methods for handling, storing and using the product. Alfa Laval is not liable for demands, losses or damage of any kind that arise from flaws or deficiencies in this document or from using, handling, storing or disposing of the product unless it can be proven that Alfa Laval has acted in a grossly negligent manner. **Beyond what has been agreed upon and specified in writing with Alfa Laval in the individual case, Alfa Laval makes no promises or assumes any liability, including but not limited to implicit guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.**