

NAUTIC EPOXY FITTING ADHESIVE

SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product identifier

NAUTIC EPOXY FITTING ADHESIVE

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

Two-component epoxy adhesive. Intended for professional use.

1.3. Details of the Supplier of the Safety Data Sheet

NOVOL Sp. z o.o.
Ul. Żabikowska 7/9
PL 62-052 Komorniki

Tel. no. +48 61 810-98-00
Fax: +48 61 810-98-09
www.novol.pl
novol@novol.pl
dokumentacja@novol.pl

Person responsible for preparation of the SDS

1.4. Emergency telephone number

+48 61 810-99-09 (7.00 AM to 3.00 PM)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Substance or mixture classification

The mixture was classified as dangerous pursuant to current regulations - see section 15.

Classification acc. to 1272/2008/WE:

Irritating effect on skin, category 2 (Skin Irrit.2). Causes skin irritation.

Sensitisation — Skin, category 1 (Skin Sens. 1). May cause an allergic skin reaction.

Serious eye damage/eye irritation, Hazard Category 2. Causes serious eye irritation.

Hazardous to the aquatic environment — Chronic Hazard, Category 2 (Aquatic Chronic 2). Toxic to aquatic life with long lasting effects.

2.2. Label elements

EUH205

Contains epoxy constituents. May produce an allergic reaction.

Pictograms:



Signal word:

Warning

H315
H317
H319
H411

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Toxic to aquatic life with long lasting effects.

P260
P273
P280
P312

Do not breathe dust/vapours.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
Call a doctor if you feel unwell.

2.3. Other hazards

No data

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N/A

3.2. Mixtures

Product identifier

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	Identification numbers	Classification and labelling	Concentration [% w/w]
epoxy resin (molecular mass: ≤ 700)	CE: 500-033-5 CAS: 25068-38-6 Index no. 603-074-00-8 Registration no. 01-2119456619-26-XXXX	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	~100%

The full text of the hazard statements (H) is provided in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General guidelines:
See SDS section 11.

Respiratory tract:

Remove the injured to fresh air, provide rest; if respiratory action is arrested, apply artificial respiration. **Seek medical attention.**

Skin:

Remove contaminated clothes. Wash the contaminated skin with plenty of lukewarm water for ca. 15 mins. If irritation persists, seek medical advice.

Eyes:

Immediately wash with plenty of water for ca. 15 minutes, avoid strong flow of water – danger of corneal damage; seek medical advice.

Digestive system:

Do not provoke vomiting (danger of choking) Rinse mouth with water. If the injured is conscious, give 1-2 glasses of warm water to drink. Seek medical attention.

First aid responders should use medical gloves.

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

May cause sensitization upon skin exposure.

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

The work site shall feature special means of specialist and immediate assistance.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Dry powder, alcohol-resistant foam, carbon dioxide, water mist.

5.2. Special hazards arising from the substance

Fire may produce carbon oxide.

5.3. Advice for firefighters

Firefighters shall use closed respiratory protection systems and light protective garment. Cool containers adjacent to the fire by spraying with water from a safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-assisting personnel:

Remove all ignition sources. Ensure adequate ventilation of the room. Avoid direct contact with the released substance. Avoid exposure of skin and eyes. Personal protection, see SDS section 8.

For assisting personnel:

The assisting personnel/responders shall wear protective garment made of coated and impregnated fabrics, protective gloves (Viton), sealed protective eyewear and respiratory protection, i.e. gas masks with type A absorbers.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.2. Environmental precautions

Prevent release into sewerage, surface waters, underground waters and soil.

6.3. Methods and material for containment and cleaning up

Remove the spill (isolate and seal off the flow of liquid). Place damaged containers in an emergency containment container, collect the liquid mechanically into an emergency containment container. Embank the area of large spills. Collect small spills with an universal binder (e.g. mica, diatomaceous earth, sand, etc.).

6.4. Reference to other sections

Personal protection, see SDS section 8.

Waste treatment methods, see SDS section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from heat and fire. Prevent release into sewerage, surface waters, underground waters and soil. Use only in well-ventilated rooms. Do not smoke cigarettes. Do not inhale vapours. Avoid exposure of skin and eyes. Use protection against electrostatic discharge. Use personal protection, see SDS section 8.

7.2. Conditions for safe storage, including any incompatibilities

Store in hermetically sealed original containers. Do not store near large amounts of organic peroxides or other strong oxidants. Use protection against electrostatic discharge. Store in cool, well-ventilated rooms. Protect from low temperatures, exposure to sunlight and heat.

7.3. Specific end uses

For professional use with the proviso of subsection 7.1 and 7.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No highest permissible concentration limits for the preparation components.

8.2. Exposure controls

Respiratory protection:

Gas masks with type A absorbers (EN 141).

Hand protection:

Safety gloves acc. to PN-EN 374-3 (Viton, 0.7 mm thick, penetration time > 480 min)

Eye protection:

Sealed protective eyewear.

Skin protection:

Suitable protective garment (coated/impregnated fabrics).

Work site:

Local exhaust, general ventilation.

The adopted personal protection shall meet the requirements of the Regulation of Ministry of Economy dated 21 December 2005 concerning the basic requirements for personal protection, Journal of Laws 2005, issue 259 item 2173

Environmental exposure controls:

Prevent release into sewerage, surface waters, underground waters and soil.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	according to the specification
Odour	odourless
Odour threshold	No data
pH	Not applicable
Melting point / freezing point	No data
Boiling point	320°C
Ignition point	264°C
Auto-ignition temperature	No data
Decomposition temperature	N/A
Evaporation rate	N/A
Flammability (solid, gas)	No data
Explosion limits	No data
Vapour pressure	No data
Vapour density (relative to air)	No data
Density	ca. 1.1 g/cm ³ (20°C)
Solubility (in water)	insoluble
Partition coefficient: n-octanol/water	No data
Viscosity (rotating rheometer)	No data
Explosive properties	N/A
Oxidising properties	N/A

9.2. Other information

No data

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Thermal decomposition produces carbon monoxide and other toxic gases.

10.4. Conditions to avoid

Avoid exposure to strong oxidants, peroxides, strong acids and strong alkalis. Avoid generation and accumulation of electrostatic charges. Protect from exposure to sunlight and heat.

10.5. Incompatible materials

Avoid exposure to large amounts of organic peroxides, strong acids, strong alkalis and other strong oxidants.

10.6. Hazardous decomposition products

Thermal decomposition produces carbon monoxide and other toxic gases.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No experimental data on the preparation. The evaluation is based on the data of the hazardous components of this preparation.

(a) Acute toxicity

Epoxy resin	LD ₅₀ (rat, oral)	>5000 mg/kg
(mean molecular mass <700):	LD ₅₀ (rat, skin)	1200 mg/kg

b) skin corrosion/irritation

Causes skin irritation.

c) serious eye damage/irritation

Causes serious eye irritation

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

d) respiratory or skin sensitisation

May cause skin sensitization

e) germ cell mutagenicity

The mixture has not been classified as cancerogenic. No available data confirming the hazard class.

f) carcinogenicity

The mixture has not been classified as cancerogenic. No available data confirming the hazard class.

g) reproductive toxicity

The mixture has not been classified as having any harmful effect on reproduction. No available data confirming the hazard class.

h) STOT-single exposure

No available data confirming the hazard class.

i) STOT- repeated exposure

No available data confirming the hazard class.

j) aspiration hazard

No available data confirming the hazard class.

Exposure routes:

Respiratory tract: no data

Skin: Skin irritant. May cause sensitization by skin contact.

Eyes: Irritant.

Swallowing may irritate the digestive tract and cause nausea, vomiting and diarrhoea.

Toxicity symptoms:

Headache and vertigo, tiredness, muscular fatigue, drowsiness, with loss of consciousness in extreme cases.

Vapours may cause drowsiness and vertigo.

SECTION 12: ECOLOGICAL INFORMATION

No experimental data on the preparation. The evaluation is based on the data of the hazardous components of this preparation.

12.1. Toxicity

Epoxy resin
(mean molecular mass <700):

Acute fish toxicity: LC50 2.4 mg/l/96h

Acute toxicity to crustaceans Daphnia magna EC50 2.8 mg/l/48h

12.2. Persistence and degradability

No data

12.3. Bioaccumulative potential

No data

12.4. Mobility in soil

Poor water solubility.

12.5. Results of PBT and vPvB assessment

No data

12.6. Other adverse effects

Toxic to aquatic organisms; may cause long-lasting adverse changes in the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

The product must be disposed of in compliance with proper local and statutory regulations with regard to waste - see point 15.

The product should be disposed with entities which are authorised to conduct activity in the area of collecting, recycling or utilization of waste.

Product remains:

Do not dispose the product into the sewage system. Do not store with communal waste. Remove the remains of the mixture carefully and harden with the use of the proper B component, (waste) hardener included in the set. The hardened product is not harmful waste.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

CAUTION: harden the remains in small portions and keep them away from flammable products. High amounts of heat are released during chemical reaction!

Contaminated container:

A container containing unhardened remains of the product is harmful waste. Do not store with communal waste. The contaminated container should be disposed with entities which are authorized to collection, recover or disposal.

SECTION 14: INFORMATION ON TRANSPORT

	ADR/RID	IMO/IMGD	IATA-DGR
14.1. UN number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin (molecular mass: ≤ 700))		
14.3. Transport hazard class(es)	9	9	9
14.4. Packing group	III	III	III
14.5. Environmental hazards	YES	YES	YES
14.6. Special precautions for users	Do not ship together with Class 1 materials (except for Class 1.4S) and specific materials of Class 4.1 and 5.2. Avoid direct exposure to Class 5.1 and 5.2 materials during shipping. Do not use open flame, do not smoke.		
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

REACH - Regulation 2006/1907/WE

CLP - Regulation 1272/2008/WE

15.2. Chemical safety assessment

Not performed

SECTION 16: OTHER INFORMATION

Relevant hazard statements listed in Sections 2 to 15:

Skin Irrit. 2 Skin irritation/corrosion, cat. 2

H315 Causes skin irritation, cat. 2

Skin Sens. 1 Skin sensitization, cat.1

H317 May cause an allergic skin reaction.

Eye Irrit. 2 Eye irritation, cat. 2

H319 Causes serious eye irritation.

Aquatic Chronic 2 Hazardous to aquatic environment, cat. 2

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure might cause skin dryness or rupture.

Explanation of the abbreviations and acronyms used in the Safety Data Sheet

CAS no – numerical symbol ascribed to a chemical substance by the American organization, Chemical Abstracts Service (CAS).

EC no. – a number ascribed to a chemical substance in the European List of Notified Chemical Substances (ELINCS) or a number in the European Inventory of Existing Chemical Substances mention in "No-longer polymers" publication (EINECS)

MPC – maximum permissible concentration of health hazardous substances in the work place

MPIC – maximum permissible instantaneous concentration

MPCC - maximum permissible ceiling concentration

PCB - permissible concentration in biological material

UN number - four-digit identification number of a substance, preparation or product pursuant to UN model regulations

ADR – European agreement on international road transport of hazardous materials

IMO – International Marine Organization

RID – Regulations for international rail transport of hazardous materials

IMDG-Code – International marine code for hazardous materials

ICAO /IATA – Technical Instructions for Safe Air Transport of Hazardous Materials

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SECTION 16: OTHER INFORMATION

The information is based on our current knowledge. This document shall not constitute warranty for product characteristics. Classification was made by calculation method according to the classification rules contained in Regulation 1272/2008/WE.

Other sources of information

ECHA European Chemicals Agency

TOXNET Toxicology Data Network

IUCLID International Uniform Chemical Information Database

Changes: General update

Trainings:

With regard to handling, health and safety while working with hazardous substances and mixtures.

With regard to transport of hazardous goods pursuant to the requirements of ADR regulations.

Issued by: NOVOL Sp. z o.o.