

EPOXY PRIMER 3:1 ANTI-CORROSION EPOXY PRIMER

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

1.1. Product identifier

EPOXY PRIMER 3:1 ANTI-CORROSION EPOXY PRIMER

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

Anti-corrosion epoxy primer (Component A) for application with spray guns. For professional use in car refinish.

1.3. Details of the supplier of the Safety Data Sheet

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

Phone: +48 61 810-98-00
Fax: +48 61 810-98-09
www.novol.pl
novol@novol.pl

Person responsible for the Safety Data Sheet

dokumentacja@novol.pl

1.4. Emergency telephone number

+48 61 810-99-09 (from 7 a.m. to 3 p.m.)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Classification 1272/2008/EC:

Skin irritation, hazard category 2 (Skin Irrit.2) Causes skin irritation.

Skin sensitization, hazard category 1 (Skin Sens. 1) May cause skin sensitization.

Serious eye damage, hazard category 1 (Eye Dam. 1). Causes serious eye damage.

Hazardous to the aquatic environment – chronic hazard, Category 3 Aquatic Chronic 3.

Harmful to aquatic life with long lasting effects.

Flammable liquid, hazard category 3 (Flam. Liq. 3). Flammable liquid and vapour.

2.2. Label elements:

Contains:

Butan-1-ol

Contains epoxy ingredients. May cause an allergic reaction.

Pictograms:



Signal word:

Danger

H226

Flammable liquid and vapour.

H315

Causes skin irritation.

H317

May cause skin sensitization.

H318

Causes serious eye damage.

H412

Harmful to aquatic life with long lasting effects.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261

Avoid breathing vapours/spray.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338

IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312

Call a doctor if you feel unwell.

2.3. Other hazards

No available data.

EPOXY PRIMER 3:1 ANTI-CORROSION EPOXY PRIMER

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Product identifier		ANTI-CORROSION EPOXY PRIMER	
Substance name	Identification numbers	Classification and marking	Concentration [wt%]
Epoxy resin (molecular mass \leq 700)	EC: 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	<20
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	EC: 500-006-8 CAS: 9003-36-5 Index no.: -- Registration no.: 01-2119454392-40-XXXX	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	<5
Dodecyl and tetradecyl glycidyl ethers	EC: 271-846-8 CAS: 68609-97-2 Index no.: 603-103-00-4 Registration no.: 01-2119485289-22-XXXX	Skin Irrit. 2; H315 Skin Sens. 1; H317	2-5
Xylene	EC: 215-535-7 CAS: 1330-20-7 Index no.: 601-022-00-9 Registration no.: 01-2119488216-32-XXXX	Flam. Liq. 3; H226; Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit.2; H315	12-18
Butan-1-ol	EC: 200-751-6 CAS: 71-36-3 Index no.: 603-004-00-6 Registration no.: 01-2119484630-38-XXXX	Flam. Liq. 3; H226 Acute Tox. 4; H302 STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3, H336	2-6
Phthalic anhydride	EC: 201-607-5 CAS: 85-44-9 Index no.: 607-009-00-4 Registration no.: 01-2119457017-41-000	Acute Tox. 4; H302 STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318 Resp. sens. 1; H334 Skin Sens. 1; H317	<0.08

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General notes:
See Section 11 of the Safety Data Sheet.

Inhalation:

Take the victim outside into fresh air, ensure calm surroundings; in the case of respiratory arrest, administer artificial ventilation. **Call a doctor.**

EPOXY PRIMER 3:1 ANTI-CORROSION EPOXY PRIMER

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Skin:

Take off contaminated clothing. Rinse contaminated skin with plenty of lukewarm water for about 15 minutes. If irritation persists, consult a doctor.

Eyes:

Rinse immediately with plenty of lukewarm water for about 15 minutes, avoid strong water jet - risk of cornea damage, consult a doctor.

Ingestion:

Do not induce vomiting (aspiration risk). Rinse mouth with water. If conscious, give 1-2 glasses of warm water to drink. Call a doctor.

The first aiders should wear medical gloves.

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

Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking. May cause sensitisation by skin contact.

4.3. Indications of any immediate medical attention and special treatment needed

Special measures allowing for specialist and immediate aid should be available at the work place.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Powder, alcohol-resistant foam, carbon dioxide, water mist.

5.2. Special hazards arising from the substance or mixture

Fire may produce carbon monoxide.

5.3. Advice for firefighters

Fire-fighting teams should wear self-contained breathing apparatus and light protective clothing. Cool adjacent tanks by spraying water at a safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Eliminate the sources of ignition. Ensure adequate ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal protective equipment: see Section 8 of the Safety Data Sheet.

For emergency responders:

The emergency responders shall wear protective clothing made of coated impregnated fabric, protective gloves (Viton), fully sealing safety goggles and breathing apparatus: gas masks with a Type A absorber.

6.2. Environmental precautions

Do not allow entry to sewage systems, surface waters, ground waters and soil.

6.3. Methods and materials for containment and cleaning up

Stop the spill (isolate the liquid inflow and seal), place damaged containers in emergency containers, remove the liquid mechanically and place it in an emergency container. In case of a large spill, embank the area. In case of small spills, collect with a binding agent (e.g. mica, diatomaceous earth or sand).

6.4. Reference to other sections

Personal protective equipment: see Section 8 of the Safety Data Sheet.

Disposal considerations: see Section 13 of the Safety Data Sheet.

EPOXY PRIMER 3:1 ANTI-CORROSION EPOXY PRIMER

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from heat and fire sources. Do not allow entry to sewage systems, surface waters, ground waters and soil. Use in well ventilated rooms. Do not smoke. Do not inhale vapours. Avoid contact with skin and eyes. Take precautions against electrostatic discharge. Use personal protective equipment: see Section 8 of the Safety Data Sheet.

7.2. Conditions for safe storage, including any incompatibilities

Keep in sealed original containers. Do not store near large amounts of organic peroxides and other strong oxidants. Take precautions against electrostatic discharge. Store in cool, well ventilated rooms. Protect from low temperatures, sunlight and heat sources.

7.3. Specific end use(s)

Anti-corrosion epoxy primers (Component A) for application with spray guns. For professional use in car refinish, with consideration of the information included in Subsections 7.1 and 7.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Xylene CAS 1330-20-7 according to:

- TRGS 900: MAK: 100ppm, MAK: 440 mg/m³, 2(II),DFG, H
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 mg/m³, 220mg/m³, STEL 100ppm, 441 mg/m³, Sk, BMGV

8.2. Exposure controls

Respiratory protection:

Gas mask with Type A absorber (EN 141).

Hand protection:

Protective gloves PN-EN 374-3 (Viton, 0.7 mm thick, penetration time > 480 min; nitrile rubber, 0.4 mm thick, penetration time >30 min)

Eye protection:

Fully sealing safety goggles.

Skin protection:

Suitable protective clothing (coated impregnated fabrics).

Workplace:

Local exhaust ventilation and general ventilation.

Environmental exposure controls:

Do not allow entry to sewage systems, surface waters, ground waters and soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	viscous liquid
Colour	light yellow
Odour	pungent, powerful
Odour threshold	0.9-9 mg/m ³ (xylene)
pH	not applicable
Melting/freezing point	-25°C
Boiling point	140°C
Flash point	24°C
Autoignition point	ca. 350°C (butyl alcohol)
Decomposition temperature	not applicable
Evaporation rate	not applicable
Flammability (solid, gas)	not applicable
Explosion limits	% lower: 1.1 vol% upper: 8.0 vol% (xylene)
Vapour pressure	9 hPa (20°C) (xylene)
Vapour density (air = 1)	3.66 (xylene)
Density	ca. 1.6 g/cm ³ (20°C)
Solubility (in water)	insoluble
Partition coefficient (n-octanol/water)	3.12-3.2 (xylene)
Viscosity (rotational rheometer)	1000-1500 mPas

EPOXY PRIMER 3:1 ANTI-CORROSION EPOXY PRIMER

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties (cont'd)

Explosive properties not applicable
Oxidizing properties not applicable

9.2. Other information

No available data.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is not reactive under normal conditions.

10.2. Chemical stability

The product remains stable under normal conditions.

10.3. Possibility of hazardous reactions

Carbon monoxide and other toxic gases are generated as a result of thermal decomposition.

10.4. Conditions to avoid

Flammable. Avoid contact with strong oxidants, peroxides, strong acids and strong alkalis. Avoid generation and accumulation of static electricity. Protect from sunlight and heat sources.

10.5. Incompatible materials

Avoid contact with large amounts of organic peroxides, strong acids and bases as well as other strong oxidants.

10.6. Hazardous decomposition products

Carbon monoxide and other toxic gases are generated as a result of thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No experimental data available on the preparation. The evaluation was performed based on the data on dangerous ingredients included in the preparation.

a) Acute toxicity

Xylene	LD ₅₀ (rat, oral)	4300 mg/kg
	LC ₅₀ (rat, inhalation)	5000 ppm/4h
	LD ₅₀ (rabbit, skin)	1700 mg/kg

Butyl alcohol	LD ₅₀ (rat, oral)	790 mg/kg
	LC ₅₀ (rat, inhalation)	8000 ppm/4h

N-Methyl-2-pyrrolidone	LD ₅₀ (rat, oral)	3598 mg/kg
	LC ₅₀ (rabbit, inhalation)	3.1-8.8 mg/l/4h

Epoxy resin (average molecular mass <700):	LD ₅₀ (rat, skin)	11400 mg/kg
---	------------------------------	-------------

b) Skin corrosion/irritation

Causes skin irritation.

c) serious eye damage/irritation

Causes serious eye damage.

d) respiratory or skin sensitisation

May cause skin sensitization.

e) germ cell mutagenicity

The mixture has not been classified as mutagenic. 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.

EPOXY PRIMER 3:1 ANTI-CORROSION EPOXY PRIMER

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

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:

Inhalation: May cause irritating effect.

Skin: Causes skin irritation. May cause skin sensitization.

Eyes: Causes serious eye damage.

If swallowed, the substance may cause irritation of the digestive tract, nausea, vomiting and diarrhoea.

Poisoning symptoms:

Headache and vertigo, fatigue, decreased muscle power, drowsiness and, in extreme cases, loss of consciousness.

Vapours may cause drowsiness and dizziness.

SECTION 12: ECOLOGICAL INFORMATION

No experimental data available on the preparation. The evaluation was performed based on the data on hazardous ingredients included in the preparation.

12.1. Toxicity

Xylene

Daphnia magna EC50 (48h) 7.4 mg/l

Evaluation indicator of acute toxicity to mammals: 3; to fish: 4.1

Number in the catalogue of water hazardous substances: 206

Water hazard class: 2

Butyl alcohol

Evaluation indicator of acute toxicity to mammals: 1; to fish: 2.9

Number in the catalogue of water hazardous substances: 39

Water hazard class: 1

N-Methyl-2-pyrrolidone

Daphnia magna EC50 (24h) >1000 mg/l

Water hazard class: 1

12.2. Persistence and degradability

No available data.

12.3. Bioaccumulative potential

No available data.

12.4. Mobility in soil

The product is poorly soluble in water.

12.5. Results of PBT and vPvB assessment

No available data.

12.6. Other adverse effects

Harmful to aquatic organisms, may cause long-term adverse effects 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 Section 15. Dispose of at a facility authorised by a relevant authority to collect, reclaim or neutralise waste.

Product residues:

Waste Code: 08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances. Do not dispose the product into sewage systems. Do not collect with communal waste. Carefully remove the product residues in the packaging and harden them with the suitable Component B (waste) from the product kit. The hardened product is not hazardous waste.

CAUTION: Harden the residues in small portions, away from flammable products. The chemical reaction generates large amounts of heat!

Contaminated containers:

The packaging with residues of the product is hazardous waste. Waste Code: 15 01 10* Packaging containing residues of or contaminated by dangerous substances (e.g. pesticides of toxicity class I and II - very toxic and toxic). Do not collect with communal waste. Dispose of the packaging at a facility authorised by a relevant authority to collect, reclaim or neutralise waste.

EPOXY PRIMER 3:1 ANTI-CORROSION EPOXY PRIMER

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMO/IMGD	IATA-DGR
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name		PAINT	
14.3. Transport hazard class(es)	3	3	3
14.4. Packing group	III	III	III
14.5. Environmental hazards	no	no	no
14.6. Special precautions for user Do not transport together with materials of class 1 (excluding materials of class 1.4S) and some materials of classes 4.1 and 5.2. During transport, avoid direct contact with materials of classes 5.1 and 5.2. Do not use open flames and do not smoke.			
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable.			

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 (number and full text) listed in Sections 2 to 15:

Flam. Liq.3 Flammable liquid. Category 3
H226 Flammable liquid and vapour
STOT SE 3 Specific target organ toxicity – single exposure. Category 3
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
Resp. sens. 1; H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
Acute Tox. 4 Acute toxicity. Category 4
H302 Harmful if swallowed
H332 Harmful if inhaled
H312 Harmful in contact with skin
Skin Irrit. 2 Corrosive/irritating effect on skin. Category 2
H315 Causes skin irritation. Category 2
Skin Sens. 1 Skin sensitization.
H317 May cause an allergic skin reaction
Eye Dam. 1 Serious eye damage.
H318 Causes serious eye damage
Eye Irrit. 2 Eye irritation. Category 2
H319 Causes serious eye irritation
Repr. 1B Reproductive toxicity.
H360D May damage the unborn child
Aquatic Chronic 2 Hazardous to the aquatic environment. Category 2
H411 Toxic to aquatic life with long lasting effects
Aquatic Chronic 3 Hazardous to the aquatic environment. Category 2
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

EPOXY PRIMER 3:1 ANTI-CORROSION EPOXY PRIMER

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:

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 **E**uropean **L**ist of **N**otified **C**hemical **S**ubstances (ELINCS), or a number in the "No-longer polymers" publication-listed **E**uropean **I**nventory of **E**xisting **C**hemical **S**ubstances (EINECS).

MPC – (Poland: NDS) maximum permissible concentration of health hazardous substances in the work place.

MPIC – (Poland: NDSC) maximum permissible instantaneous concentration.

MPCC – (Poland: NDSP) maximum permissible ceiling concentration.

PCB – (Poland: DSB) 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 Dangerous Materials.

ICAO /IATA – Technical Instructions For The Safe Transport of Dangerous Goods by Air.

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

Training:

In handling, health and safety while working with hazardous substances and mixtures.

In transport of hazardous goods pursuant to the requirements of ADR regulations.

Issued by: NOVOL Sp. z o.o.