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#### **EPOXY PRIMER HARDENER**

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

## 1.1. Product identifier EPOXY PRIMER HARDENER

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

Hardener for EPOXY PRIMER. For professional use in car refinish.

### 1.3. Data of the supplier Safety Data Sheet

 NOVOL Sp. z o.o.
 Tel: +48 61 810-98-00

 Ul. Żabikowska 7/9
 Fax:+48 61 810-98-09

 PL 62-052 Komorniki
 www.novol.pl

www.novol.pl novol@novol.pl

Person responsible for the Safety Data Sheet <a href="mailto:dokumentacja@novol.pl">dokumentacja@novol.pl</a>

**1.4. Emergency telephone number** +48 61 810-99-09 (from 7.00 to 15.00)

### **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 irritant, hazard category 2 (Skin Irrit. 2). Irritating to skin.

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

Serious eye damage/eye irritation, hazard category 1 (Eye Dam. 1).

Causes serious eye damage.

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

# 2.2. Label elements:

Contains: Xylene

Pictograms:





Signal word: Danger

H226 Flammable liquid and vapour. H315 Causes skin irritation.

H317 May cause skin sensitization.
H318 Causes serious eye damage.

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+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Call a doctor if you feel unwell.

# 2.3. Other hazards

No available data.

P312

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1. Substances

Not applicable.

### 3.2. Mixtures

**Product identifier** 

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# EPOXY PRIMER HARDENER

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Substance name	Identification numbers	Classification and marking	Concentration [wt%]
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	27-31
m-Phenylenebis (methylamine)	EC: 216 CAS: 1477-55-0 Index no.: Registration no.: 01- 2119480150-50-XXXX	Skin Corr. 1B; H314 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Sens. 1; H317	<4.5
2,4,6- Tris(dimethylaminomethyl)phenol	EC: 202-013-9 CAS: 90-72-2 Index no.: Registration no.: 01- 2119560597-27-XXXX	Acute Tox. 4; H302 Skin Irrit.2; H315 Eye Irrit. 2; H319	<6

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 information:

See section 11 of the Safety Data Sheet.

# Inhalation:

Take the victim outside into fresh air, ensure quiet surrounding; in case of no breath, apply artificial respiration. Call a doctor.

### Skin

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

### Eves

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

## Alimentary tract:

Do not provoke vomiting (choking risk). Rinse mouth with water. If conscious, administer 1-2 glasses of warm water. Call a doctor.

Person giving first aid should wear medical gloves.

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

Harmful: danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking.

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

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

# **SECTION 5: FIREFIGHTING MEASURES**

## 5.1. Extinguishing media

Powder, foam resistant to alcohols, carbon dioxide, water mist.

## 5.2. Special hazards arising from the substance or mixture

Fire may cause generation of carbon dioxide and other toxic gases.

# 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.

#### **EPOXY PRIMER HARDENER**

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# 6.1. Personal precautions, protective equipment and emergency procedures

For persons not being the members of aid giving staff:

Eliminate sources of ignition. Ensure sufficient ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal protection measures - section 8 of the Safety Data Sheet.

For persons giving aid:

Persons giving aid should wear protective clothing made of coated, impregnated fabric, protective gloves (viton), tight protective glasses and breathing apparatus: gas mask with A type absorber.

#### 6.2. Environmental precautions

Prevent leakage to the sewage system, surface waters, underground waters and soil.

## 6.3. Methods and materials for containment and cleaning up

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

### 6.4. Reference to other sections

Personal protection measures - see section 8 of the Safety Data Sheet.

Disposal considerations - see section 13 of the Safety Data Sheet.

### **SECTION 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

Keep away from heat and fire sources. Prevent leakage to the sewage system, surface waters, underground waters and soil. Use in well ventilated rooms. Do not smoke. Do not inhale fumes. Avoid contact with skin and eyes. Take precaution measures against electrostatic discharge. Use personal protection measures - section 8 of the Safety Data Sheet.

## 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly sealed, original containers. Do not store near large amounts of organic peroxides and other strong oxidants. Take precaution measures against electrostatic discharge. Store in cool, well ventilated rooms. Protect from low temperatures, the influence of sunrays and heat sources.

# 7.3. Special end use(s)

Hardener for EPOXY PRIMER. For professional use in car refinish taking into consideration the information included in subsections 7.1 and 7.2.

# **SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

# 8.1. Control parameters

Xylene CAS 1330-20-7 according to:

TRGS 900: MAK: 100ppm, MAK: 440 mg/m<sup>3</sup>, 2(II),DFG, H

Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]:
 TWA 50 mg/m<sup>3</sup>, 220mg/m<sup>3</sup>, STEL 100ppm, 441 mg/m<sup>3</sup>, Sk, BMGV

# 8.2. Exposure control

Respiratory tract protection:

Gas mask with A type 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:

Tight protective glasses.

Skin protection:

Proper protective clothing (coated impregnated fabrics).

Workplace:

Fixed fume extraction and general ventilation.

Environmental exposure control:

Prevent leakage to the sewage system, surface waters, underground waters and soil.

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#### **EPOXY PRIMER HARDENER**

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties

Physical state liquid
Colour light yellow
Odour characteristic

Odour threshold 0.9-9 mg/m³ (Xylene)

Ph Approx.. 10.5
Melting/freezing point not specified
Boiling point 65-140℃
Flash point Approx.. 25℃

Autoignition point Approx. 500℃ (Xylene)

Breakdown point not specified Evaporation rate not specified Flammability (solid, gas) not applicable

Explosion limits % bottom: 1.1 vol% top: 8.0 vol% (Xylene)

Vapour pressure9 hPa (20℃) (Xylene)Vapour density (with regard to air)3.66 (Toluene)

Density about 0.97 g/cm<sup>3</sup> (20°C)

Solubility (in water) poor

N-octanol/water division ratio
Viscosity
Suppose the suppose ties
Oxidizing properties
Suppose the suppose ties
Suppose the suppose ties
Suppose the suppose ties
Suppose the suppose ties

**9.2 Other informations** 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

Highly flammable product. Avoid contact with strongly oxidizing agents, peroxides, strong acids and bases. Avoid generation and accumulation of static electricity. Protect from the influence of sunrays 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. Evaluation was performed based on the data on dangerous ingredients included in the preparation.

# a) Acute toxicity

 $\dot{\text{Xylene}}$  LD<sub>50</sub> (rat, ingestion) 5000 mg/kg LC<sub>50</sub> (rat, inhalation) 4550 ppm/4h

# 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.

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### **SECTION 11: TOXICOLOGICAL INFORMATION**

# 11.1. Information on toxicological effects

### 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 methods:**

Inhalation: May cause irritating effect.

Skin: Causes skin irritation. May cause skin sensitization.

Eyes: Causes serious eye damage Harmful if swallowed. If swallowed, the substance may cause irritation of the alimentary tract, nausea, vomiting and diarrhoea.

### Poisoning symptoms:

Headache and vertigo, fatigue, decreased muscle power, drowsiness and, in exceptional instances, loss of consciousness. Fumes might cause drowsiness and vertigo. Vapours may cause drowsiness and dizziness.

#### **SECTION 12: ECOLOGICAL INFORMATION**

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

# 12.1. Toxicity

Xylene Daphnia magna EC50 (48hours.) > 7.4 mg/l

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

Number in the catalogue of water hazardous substances: 206

Water hazard class: 2

12.2. Persistence and degradability

No available data.

12.3. Bioaccumulative potential

No available data.

## 12.4. Mobility in soil

Product very poorly soluble in water.

## 12.5. Results of PBT and vPvB assessment

No available data.

### 12.6. Other adverse effects

No available data.

# **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 A component, (waste) primer included in the set. The hardened product is not harmful waste.

**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.

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#### **EPOXY PRIMER HARDENER**

### **SECTION 14: TRANSPORT INFORMATION**

		ADR/RID	IMO/IMGD	IATA-DGR
14.1.	UN number	1866	1866	1866
14.2.	UN proper shipping name	RESIN SOLUTION, flammable		
14.3.	Transport hazard class(es)	3	3	3
14.4.	Packaging group	III	III	III
14.5.	Environmental hazards	none	none	none

## 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 an open flame and do not smoke.

14.7. Transport in bulk according to Annex II of MARPOL Convention 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 listed in Sections 2 to 15:

Flam. Liq.3 Flammable liquid. Category 3 H226 Flammable liquid and vapour Acute Tox. 4 Acute toxicity. Category 4 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 Corr. 1B Corrosive/irritating effect on skin, hazard Category 1B

H314 Causes severe skin burns and eye damage

Acute Tox. 4 Acute toxicity. Category 4

H302 Harmful if swallowed

Eye Irrit. 2 Eye irritation. Category 2

H319 Causes serious eye irritation

Skin Sens. 1 Skin sensitization. Category 1

H317 May cause an allergic skin reaction

### Abbreviations and acronyms:

**CAS no.** – a 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 "No-longer polymers" publication listed European INventory of Existing Chemical Substances (EINECS).

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

**MPIC** – (Poland: NDSCh) 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.

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## **EPOXY PRIMER HARDENER**

# **SECTION 16: OTHER INFORMATION**

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.