

**EPOXY PRIMER 3+1**

**SECTION 1: SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION**

**1.1. Product identification**

**EPOXY PRIMER 3+1**

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

Two component epoxy filling primer ensuring active anti corrosive protection of passenger cars, busses and trucks, characterized by very good adhesion to steel, galvanized steel, aluminium, polyester laminates. For professional use in industry.

**1.3. Data of the safety data sheet supplier**

**Przedsiębiorstwo RANAL Sp. z o.o.**

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**Person responsible for the safety data sheet**

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**1.4. Emergency telephone**

+48 34 322-28-77 (from 8.00 am to 03.00 pm)

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of substance or mixture**

**Classification according to Regulation (EC) no 1272/2008**

Mixture was classified as hazardous.

**Flam. Liq. 3** – Flammable liquids, hazard category 3

**H226** - Flammable liquid and vapours.

**Eye Irrit. 2** - Serious eyes damage/causes eyes irritation, hazard category 2

**H319** Causes serious eye irritation.

**Skin Irrit. 2** – Causes caustic/irritating effect in contact with skin, hazard category 2

**H315** - Causes skin irritation.

**Skin Sens. 1** – Skin sensitization, hazard category 1

**H317** May cause an allergic skin reaction.

**2.2 Label elements**

**Labeling according to Regulation (EC) no 1272/2008**

Product is classified and labeled according to CLP regulations.

**Pictograms defining hazard category**



GHS02 GHS07

**Warning word** Warning

Contains: bisphenol A – epoxy resins, xylene

Hazard statements

**H226** – Flammable liquid and vapours.

**H319** - Causes serious eye irritation.

**H315** - Causes skin irritation.

**H317** - May cause an allergic skin reaction.

Precautionary statements

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P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe mist/vapours/spray.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P312 Call a POISON CENTER or a doctor if you feel unwell.

P501 Dispose of contents/container according to local / regional / national / international regulations.

Other information:

Not applicable.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

Product contains no components meeting the criteria of PBT or vPvB.

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

**3.1. Substances**

Not applicable.

**3.2. Mixtures**

Description: Mixture of organic substances.

Substance name	Identification	Classification 67/548/EEC	Classification 1272/2008		% weight
bisphenol A – epoxy resins (a.m.v. 700-1100)	Index --- CAS 25068-38-6 EC ---	Xi; R36/38 R43	Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1	H319 H315 H317	<20%
xylene; dimethylbenzene – mixture of isomers	Index 601-022-00-9 CAS 1330-20-7 EC 215-535-7 Registration no 01-2119486136-34	R10 Xn; R20/21 Xi; R38	Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2	H226 H332 H312 H315	<7%
Butyl acetate	Index 607-025-00-1 CAS 123-86-4 EC 204-658-1 Registration no 01-2119485493-29-XXXX	R10 R66 R67	Flam. Liq. 3 STOT SE 3 EUH066	H226 H336	<10%
1-butanol	Index 603-004-00-6 CAS 71-36-3 EC 200-751-6 Registration no 01-2119484630-38-XXXX	R10 Xn; R22 Xi, R37/38-41 R67	Flam. Liq. 3 Acute Tox. 4 STOT SE 3 Skin Irrit. 2 Eye Dam. 1 STOT SE 3	H226 H302 H335 H315 H318 H336	<3%
ethylbenzene	Index 601-023-00-4 CAS 100-41-4 EC 202-849-4 Registration no 01-2119489370-35-XXXX	R11, Xn R20	Flam. Liq. 2 Acute Tox. 4	H225 H332	< 3%

Full text of precautionary and hazard statements to be found in section 16

**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures:**

Ways of exposure: respiratory tract, alimentary tract, contact with skin, contact with eyes.

Inhalation:

- Remove victim out of endangered area to fresh air. Keep in comfortable position. Ensure warm and quiet surrounding.
- Maintain clear airway.
- Immediately call medical help.

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### Ingestion:

- Rinse mouth with water, administer 2-3 glasses of water, consult a doctor. Do not cause vomiting. Do not administer anything to an unconscious person.
- If needed, transport the victim to hospital. Ensure warm and quiet surrounding and comfortable position.

### Contact with eyes:

- Rinse contaminated eyes with plenty of water for 15-20 minutes with eyelids wide open.
- Put eyes protection against sunlight.

- Ensure medical help.

### Contact with skin:

- Remove contaminated clothes and shoes.

Clean contaminated skin, rinse with plenty of water and water with delicate soap.

- If skin irritation persists, consult a dermatologist.

## 4.2. Most important symptoms both acute and delayed

No further essential data available

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

Measures ensuring pre-medical help should be available in the place of work. Persons giving medical help should use medical gloves.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide CO<sub>2</sub>, extinguishing powders, extinguishing foam resistant to alcohol,

Unsuitable extinguishing media:

Do not use strong water jets on surface of substance on fire. Such action causes dispersion of burning substance and spread of fire.

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

Flammable liquid and vapours.

#### Combustion products:

Combustion causes formation of carbon monoxides and dioxides.

#### Explosive mixtures:

In favorable thermal conditions, vapors form explosive mixtures with air.

Vapours are heavier than air and they cumulate near the ground.

Tanks or other containers with acrylonitrile exposed to fire or high temperature, may explode.

### 5.3. Advice for firefighters

Apply standard methods of extinguishing chemical fires.

Tanks exposed to high temperature should be cooled with water and if possible, removed from the endangered area.

Vapours of the product should be neutralized with sprayed water.

#### Protective equipment for firefighters:

Clothes resistant to high temperatures.

Self-contained breathing apparatus.

Use explosimeter.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency measures

Persons giving aid should wear protective clothes of natural fabrics, protective gloves, tight protective clothes and, if needed, respiratory protection.

In case of product release, warn the users and evacuate third parties from the endangered area.

### 6.2 Environmental precautions:

Prevent environmental contamination.

Protect sewage drains.

In case of serious contamination of watercourse, sewage system or soil, inform adequate administrative authorities and rescue organizations.

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

Remove all potential ignition sources, do not smoke.

Protect damaged containers.

Ventilate endangered area and avoid breathing vapours.

Embank the area on the way of released substance.

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Collect spilled substance mechanically and with the use of binding agents (earth, dry sand, diatomaceous earth, vermiculite). Put collected liquid in an emergency container and destine for disposal.

### 6.4 Reference to other sections

Personal protections: section 8

Disposal considerations: section 13.

## SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

### 7.1 Precautions for safe handling

Recommendations for handling the mixture:

Take precautions against the fire.

Avoid direct contact with the mixture.

Avoid breathing vapours and aerosols.

Prevent leakage.

Prevent release into sewage system.

Apply general regulations of industrial safety and hygiene.

Do not eat, drink and smoke while handling the product.

Change contaminated clothes.

Wash carefully after handling the product.

Wash contaminated clothes before reuse.

Wash hands and face before work breaks.

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

Ventilate storage rooms, (possible formation of explosive mixtures with air).

Keep the container tightly sealed.

Store in a cool place.

Protect from sunlight and heat sources.

Take precautions against electrostatic discharges.

Use only tools not causing sparks.

Product cannot be used in vicinity of open flames.

Wiring systems should respect anti-explosion requirements.

Use only containers made of the same materials as original containers.

Operate carefully with open containers preventing spilling of the product.

Get acquainted with material safety data sheet.

Do not use if not acquainted with all necessary safety measures.

### 7.3 Special end use(s)

No further essential data available.

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

### 8.1. Control parameters

According to Regulation of Labour and Social Policy of November 29 2002 (Dz.U. No 217, poz. 1833) on the highest permissible concentrations and intensity of health hazardous factors in a workplace, with following amendments.

IDENTIFICATION	MPC (mg/m <sup>3</sup> )	MPCC (mg/m <sup>3</sup> )	MPIC (mg/m <sup>3</sup> )
Index 601-022-00-9 CAS 1330-20-7 EC 215-535-7	100	---	---
Index 603-004-00-6 CAS 71-36-3 EC 200-751-6	50	150	---
Index 607-025-00-1 CAS 123-86-4 EC 204-658-1	200	950	---
Index 601-023-00-4 CAS 100-41-4 EC 202-849-4	200	400	---

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**8.2 Exposure control**

Appropriate technical control measures.

Spray water in case of danger caused by explosive concentrations of gases, vapours or aerosols of the mixture.

Efficient ventilation in work places.

Hands protection:



Protective gloves

Protective PVC gloves.

Choose gloves considering breakthrough time and rate and degradation.

It is advisable to regularly change gloves and change them immediately if there is any symptom of wear, damage (tear, punch) or any change in appearance (colour, elasticity, shape). Use protective cream for body parts.

Eyes protection:



Use tight protective glasses according to PN-EN:166:2005.

Body protection

Protective clothes of tight knitted fabrics. Protective shoes of nitrile rubber.

Protection of respiratory tract

Not required in normal working conditions.

In case of danger of vapours of dangerous components use self contained protection of respiratory tract with filters according to PN-EN 149:2001.

Environmental control

No data available.

General indications on safety and hygiene:

**Caution:**

Immediately change contaminated clothing.

Apply protective cream on uncovered parts of the body. After using the product wash hands and face.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

Appearance:	In room temperature: viscous liquid.
Colour:	according to specification
Odour:	characteristic.
Flammability:	flammable.
Melting point:	no data.
Breakdown point:	no data
Boiling point/1013 mbar:	>117,7oC
Density:	1,6 g/cm3
Vapour density with regard to air:	>1
Vapour pressure/hPa:	8,2 (20oC).
Flash point:	22oC (closed pot)
Autoignition point:	520oC
Range of explosive mixtures with air:	1,1 – 8,0 % vol.
n-octanol / water partition coefficient	no data.
pH:	no data.
Water absorption/20oC:	no data.
Solubility in water :	not soluble in water
Viscosity:	no data
Explosive properties:	no

**9.2 Other information**

No further essential data available.

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### SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity**  
Product not reactive under normal conditions.
- 10.2. Chemical stability**  
Product stable under normal conditions.
- 10.3. Possibility of hazardous reactions**  
Vapours form explosive mixtures with air.
- 10.4. Conditions to be avoided**  
Avoid high temperatures.
- 10.5. Incompatible materials**  
Strong oxidants.
- 10.6. Hazardous decomposition products**  
No hazardous decomposition product if used as destined.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

Mixtures

Acute toxicity:

No experimental data available on the preparation.

Local effect:

Exposure methods:

Respiratory tract, alimentary tract, contact with skin, contact with eyes.

Contact with skin:

Causes skin irritation.

May cause an allergic skin reaction.

May cause irritation, redness.

Contact with eyes:

Causes eyes irritation.

Contact with the liquid or its vapours may cause irritation, redness and lacrimation.

Respiratory tract:

Breathing vapours of the product may cause irritation of mucous membrane.

Alimentary tract:

May cause irritation of mucous membrane of alimentary tract, nausea and vomiting.

Late, direct and chronic effect of short and long-lasting exposure

Mixture is not carcinogenic, mutagenic or harmful for reproduction.

May cause an allergic skin reaction.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Harmful effect on aquatic organisms with long lasting effects.

#### 12.2. Persistence and degradability

No data available.

#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

Not soluble in water.

#### 12.5. Results of PBT and vPvB assesment

No data available.

#### 12.6. Other hazardous effects

No data available

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Waste containers and remains of the product should be disposed of by authorized entities.

Waste code

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08 01 11 waste paint and varnish containing organic solvents or other dangerous substances.

Waste container code:

15 01 02 plastic packaging.

15 01 04 metallic packaging.

**SECTION 14: TRANSPORT INFORMATION**

	<b>ADR/RID</b>	<b>IMGD</b>	<b>IATA</b>
<b>14.1. UN number</b>	1263	1263	1263
<b>14.2. UN proper shipping name</b>	PAINT or PAINT RELATED MATERIAL		
<b>14.3. Transport hazard class(-es)</b>	3	3	3
<b>Classification code</b>	F1	F1	F1
<b>Warning label no 3</b>			
<b>14.4. Packaging group</b>	III	III	III
<b>14.5. Environmental hazards</b>	no	no	no
<b>14.6. Special precautions for users</b>	Not applicable.		
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code</b>	Not applicable.		

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations / legislations specific for the substance or mixture**

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of December 18 2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing European Chemicals Agency, amending Directive 1999/45/EC and repealing Regulation of the Council (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Directive of the Council 76/769/EEC and of the Commission 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC..
- Regulation (EC) No 1272/2008 of December 16 2008 on Classification, Labeling and Packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006.
- Commission Regulation (EC) No 790/2009 of August 10 2009 amending for the purposes of its adaptation to technical and scientific progress, Regulation of the European Parliament and of the Council (EC) No 1272/2008 of December 16 2008 on Classification, Labeling and Packaging of substances and mixtures.
- Commission Regulation (EU) No 453/2010 of May 20 2010; amending Regulation (EC) No 1907/2006 Of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- Classification of dangerous Goods according to European Agreement concerning international road transport of dangerous goods (ADR).

**15.2 Chemical safety assessment**

Not performed.

**SECTION 16: OTHER INFORMATION**

Full text of the phrases identifying the types of hazards and R phrases mentioned in section: 3

- R 10 Flammable.
- R 11 Highly flammable.
- R 20 Harmful by inhalation.
- R 21 Harmful in contact with skin.
- R 22 Harmful if swallowed.
- R 36/38 Irritating to eyes and skin.
- R 37 Irritating to respiratory system.
- R 41 Risk of serious damage to eyes.
- R 43 May cause sensitization by skin contact.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.

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- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

Restriction in use:

Only for professional use

Training instructions

Before use get acquainted with material safety data sheet

Explanations of the abbreviations and acronyms used in the Material Safety Data Sheet:

CAS (Chemical Abstracts Service)

EC number describes one of the following:

- number ascribed to a substance in the European Inventory of Existing Commercial Chemical Substances (EINECS),

- number ascribed to a substance in the European List of Notified Chemical Substances (ELINCS).

- number in No longer Polymers list (NLP) of the EU

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

MPIC – maximum permissible instantaneous concentration

MPCC – maximum permissible ceiling concentration

UN no – substance identification number

ADR – European Agreement on international road transport of dangerous goods,

RID – Regulation on international rail transport of dangerous goods,

IMDG – International Marine Code of Dangerous Goods

IATA – International Air Transport Association

Other sources of information

IUCLID International Uniform Chemical Information Database

ESIS European Chemical Substances Information System

ECHA Website

Other information:

Product described in the safety data sheet should be stored and handled according to good industry practice and in accordance with all legal regulations.

All information and recommendations included in the safety data sheet are based on our general experience and our latest knowledge and are presented in good faith. No part of this publication can be treated as guarantee, warranty or position directly, indirectly or other. In each case it is the user's responsibility to verify if given information is precise, complete and applicable in particular situation. The user is responsible for creation of safe conditions for the product to be used and for all the effects of incorrect use of the product.