

MATERIAL SAFETY DATA SHEET
Date of issue: 05.11.2012
Updating date: 01.06.2017
Number: OP3L0318V1

RANAL[®]

EPOXY PRIMER 1+1

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

1.1. Product identification EPOXY PRIMER 1+1

1.2. Relevant identified uses of the substance or mixture and uses advised against
Epoxy primer (component A) to be applied with a spray gun. For professional use in car refinish.

1.3. Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.

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42-240 Rudniki k/Częstochowy
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Person responsible for the safety data sheet
ranal@ranal.pl

1.4. Emergency telephone
+48 34 329 45 03 (from 8.00 am. to 03.00 pm.)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The mixture was classified as dangerous according to current regulations – see section 15.

Classification 1272/2008/EC:

Irritating to skin, hazard category 2 (Skin Irrit.2). Causes skin irritation.
Skin sensitization, hazard category 1 (Skin Sens. 1) May cause an allergic skin reaction.
Serious eye damage, hazard category 1 (Eye Dam. 1). Causes serious eye damage.
Hazardous to aquatic environment – chronic hazard, category 3 Aquatic Chronic 3 Harmful to aquatic organisms with long term effects.
Flammable liquids, hazard category 2. (Flam. Liq. 2). Highly flammable liquid and vapours.

2.2. Label elements:

Contains:

Xylene

Contains epoxy constituents. May cause an allergic reaction.

Pictograms:



Warning word: **DANGER**

Risk index:

H225 Highly flammable liquid and vapours.

H315 Causes skin irritation.

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H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long-lasting effects.

Safety index:

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 data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Product identification

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Substance name

Identification numbers

Classification and marking

Concentration

[% weight]

Epoxy resin (molecular weight \leq 700)

14-24%

EC: 500-033-5

CAS: 25068-38-6

Index no: 603-074-00-8

Registration no: 01-2119456619-26-XXXX

Classification 1272/2008/EC:

Eye Irrit. 2; H319

Skin Irrit. 2; H315

Skin Sens. 1; H317

Aquatic Chronic 2; H411

Xylene

10-20%

EC: 215-535-7

CAS: 1330-20-7

Index no: 601-022-00-9

Registration no: 01-2119488216-32-XXXX

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Classification 1272/2008/EC:
Flam. Liq. 3; H226;
Acute Tox. 4; H332
Acute Tox. 4; H312
Skin Irrit.2; H315

Isobutyl methyl ketone

4-9%
EC: 203-550-1
CAS: 108-10-1
Index no: 606-004-00-4
Registration no: 01-2119473980-30-XXXX

Classification 1272/2008/EC
Flam. Liq. 2; H225
Acute Tox. 4; H332
Eye Irrit. 2; H319
STOT SE 3; H335

Butyl alcohol

2-6%
EC: 200-751-6
CAS: 71-36-3
Index no: 603-004-00-6
Registration no: 01-2119484630-38-XXXX

Classification 1272/2008/EC:
Flam. Liq. 3; H226
Acute Tox. 4; H302
STOT SE 3; H335
Skin Irrit. 2; H315
Eye Dam. 1; H318
STOT SE 3; H336

Full text of the phrases identifying the types of hazard and R phrases provided in section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

General information:

See section 11 of the Material Safety Data Sheet.

Inhalation:

Take the victim outside to the fresh air, ensure quiet surrounding, in case of no breath perform artificial respiration. **Call a doctor.**

Skin:

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

Eyes:

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

Alimentary tract:

Do not cause 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 both acute and delayed

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

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

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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

Carbon monoxide may be generated in case of fire.

5.3. Advice for firefighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

For persons not being members of aid giving staff:

Remove ignition sources. Ensure sufficient ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal safety measures – see section 8 of Material Safety Data Sheet.

For persons being the members of aid giving staff:

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 Material Safety Data Sheet.

Disposal considerations – see section 13 of the Material Safety Data Sheet.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Store in well sealed original containers. Do not store near large amounts of organic peroxides or other strong oxidants. Take precaution measures against electrostatic discharge. Store in cool, well ventilated rooms.

Protect from the sunrays, heat sources and low temperatures.

7.3. Special end use(s)

Anti corrosion epoxy primer (component A) to be applied with a spray gun. For professional use in car body refinish taking into consideration the information included in subsections 7.1 and 7.2.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

8.1. Control parameters

CAS NUMBER	SUBSTANCE	MPC (mg/m ³)	MPIC (mg/m ³)	MPCC (mg/m ³)
1330-20-7	Xylene	100	---	---
71-36-3	Butyl alcohol	50	150	---

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108-10-1	Isobutyl- methyl ketone	83	200	---
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National acceptable biological values:

CAS NUMBER 1330-20-7

SUBSTANCE ABSORBED Xylene

SUBSTANCE MARKED methyl hippuric acid

BIOLOGICAL MATERIAL urine*

PCB VALUES 0,75 g/g creatinine

Notice: * single sample, taken at the end of a daily exposure any day.

PN-EN 482: 2012 Occupational exposure – General requirements for the characteristics of procedures of measurements of chemical factors.

PN-EN-689: 2002. Workplace atmospheres. Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values.

PN Z-04008-7:2002 Protection of air cleanliness. Sampling. Principles of air sampling in the work environment and interpretation of results.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

viscous liquid

Colour

Light yellow

Odour

strong, powerful

Odour threshold

0.9-9 mg/m³ (xylene)

pH

not applicable

Melting /freezing point

-50°C

Boiling point

114-143°C

Flash point

14°C

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Autoignition point

about 440°C

Breakdown point

Not applicable

Evaporation rate

Not applicable

Flammability (solid, gas)

not applicable

Explosion limits

% bottom: 1.1 vol% top: 8.0 vol% (xylene)

Vapour pressure

9 hPa (20°C) (xylene)

Vapour density (with regard to air)

3.66 (xylene)

Density

about 1.5 g/cm³ (20°C)

Solubility (in water)

Not soluble

n-octanol/water partition coefficient

3.12-3.2 (xylene)

Viscosity (rotational rheometer)

400-2000 mPas

Explosive properties

not applicable

Oxidizing properties

not applicable

9.2. Other information

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Product not reactive under normal conditions.

10.2. Chemical stability

Product stabile under normal conditions.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to be avoided

Flammable product. Avoid contact with strong oxidants, 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 based on the data on dangerous ingredients included in the preparation.

a) Acute toxicity

Xylene

LD₅₀ (rat, ingestion) 5000 mg/kg

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LC ₅₀ (rat, inhalation)	4550 ppm/4h
Butyl alcohol	
LD ₅₀ (rat, ingestion)	790 mg/kg
LC ₅₀ (rat, inhalation)	8000 ppm/4h

Isobutyl – methyl ketone	
LD ₅₀ (rat, ingestion)	2080mg/kg
LC ₅₀ (rat, inhalation)	100gm/m ³

Epoxy resin
 (average molecular weight <700):
 LD₅₀ (rat, skin) 11400 mg/kg

b) Caustic/irritating effect on skin

Causes skin irritation.

c) Serious eye damage / eye irritation

Causes serious eye damage

d) Allergic effects on respiratory system or skin

May cause an allergic skin reaction.

e) Mutagenic effect on germ cells

The mixture is not classified as having mutagenic effect on germ cells. No available data confirming the hazard class.

f) Carcinogenicity

The mixture is not classified as carcinogenic. No available data confirming the hazard class.

g) Harmful effect on reproduction

The mixture is not classified as harmful to reproduction. No available data confirming the hazard class.

h) Toxic effect on target organs – single exposure

No available data confirming the hazard class.

i) Toxic effect on target organs – repeated exposure

No available data confirming the hazard class.

j) Aspiration hazard

No available data confirming the hazard class.

Exposure methods:

Respiratory tract: Harmful in case of inhalation.

Skin: Causes skin irritation. May cause an allergic skin reaction.

Eyes: Causes serious eye irritation.

If swallowed the substance may cause irritation of the alimentary tract, nausea, vomiting and diarrhea.

Poisoning symptoms:

Headaches and dizziness, fatigue, decreased muscle power, drowsiness and in exceptional instances loss of consciousness.

Vapours may cause drowsiness and dizziness.

SECTION 12: ECOLOGICAL INFORMATION

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

12.1. Toxicity

Xylene

Daphnia magna EC50 (48 hours) 7,4 mg/l

Acute toxicity for mammals: 3; for fish: 4,1

Number in catalogue of water hazardous substances: 206

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Water hazard class: 2

Butyl alcohol

Acute toxicity for mammals: 1; for fish: 2.9

Number in catalogue of water hazardous substances: 39

Water hazard class: 1

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Very poorly soluble in water.

12.5. Results of PBT and vPvB assesment

No data available.

12.6. Other hazardous effects

Harmful to aquatic organisms; may cause long - term adverse effects in aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product must be disposed of in compliance with the proper local and statutory regulations with regard to waste – see point 15.

Product remains:

Waste code: 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances. 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, a (waste) hardener from the set. Hardened product is not harmful waste.

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

Contaminated container:

A contaminated container containing unhardened remains of the product is harmful waste. Waste code: 15 01 10* packaging containing residues of or contaminated by dangerous substances (e.g. pesticides of I and II class of toxicity – very toxic and toxic). Do not store with communal waste. The contaminated container should be disposed with entities which are authorized to collection, recover o disposal.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class (es)

3

14.4. Packaging group

II

14.5. Environmental hazards

no

14.6. Special precautions for user

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Do not transport together with products of class 1 (except products of class 1.4S), and some products of class 4.1 and 5.2. During the transport avoid direct contact with products of class 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 73/78 Convention and the IBC Code

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 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Official Journal of EU L 136 of May 29 2007. Official Journal of EU L 304 of November 22 2007, Official Journal of EU L268 of October 09 2008, Official Journal of EU L 46 of February 17 2009, Official Journal of EU L164 of June 26 2009, Official Journal of EU L133/1 of May 31 2010 with later amendments.

- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Official Journal of EU L 132 of May 29 2015.

- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of EU L 353 of December 31 2008); Official Journal of EU L 235 of September 5 2009, Official Journal of EU L 83 of March 30 2011, Official Journal of EU L 179 of July 11 2012, Official Journal of EU L 149 of June 1 2013, Official Journal of EU L 261 of October 3 2013, Official Journal of EU L 167 of June 2014, Official Journal of EU L 197 of July 25 2015.

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 sections 2-15:

Flammable Liquid 3

H226 Flammable liquid and vapours.

STOT SE 3 Toxic effect on target organs – single exposure, cat. 3

H 335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Acute Toxicity 4

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

Skin Irritation 2

H315 Causes skin irritation (category 2).

Skin Sensitization 1

H317 May cause an allergic skin reaction.

Eye Damage 1

H318 Causes serious eye damage.

Eye Irritation 2

H319 Causes serious eye irritation.

Aquatic Chronic 2 Hazardous for aquatic environment cat 2.

H411 Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3 Hazardous for aquatic environment cat 3.

H412 Harmful to aquatic life with long-lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

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

Nr CAS – numerical symbol ascribed to a chemical substance by the American organization Chemical Abstracts Service (CAS).

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Nr EC – 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 mentioned 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

Classification based on calculation method according to classification rules included in Regulation 1272/2008/EC

Other Data sources:

ECHA European Chemicals Agency

TOXNET Toxicology Data Network

Changes: general update