

EPOXY PRIMER SPRAY

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

1.1. Product identification EPOXY PRIMER SPRAY

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

Areas of use:

- SU21 Consumers: Private households / general public / consumers.
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen).
SU3 Industrial manufacturing: Uses of substances as such or in preparations at industrial sites.
Product category: PC9a – Coatings and paints, thinners, solvents.

Process category:

- PROC11 Non industrial spraying
PROC7 Industrial spraying

Use of substance/mixture:

- Paint
Spray

1.3. Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.

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1.4. Emergency telephone

+48 34 329-45-03 (7:30am - 03:30pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008:



GHS02 flame

Aerosol 1

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.



GHS09 environment

Aquatic Chronic 2

H411 Toxic to aquatic life with long-lasting effects.



GHS07

Eye Irrit. 2

H319 Causes serious eye irritation.

2.2. Label elements

Hazard pictograms:



Warning word: **Danger.**

EPOXY PRIMER SPRAY

Risk index:

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.
 H319 Causes serious eye irritation.
 H411 Toxic to aquatic life with long-lasting effects.

Safety index:

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P264 Wash thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective 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.
 P337+P313 If eye irritation persists get medical advice/attention.
 P391 Collect the leaked substance.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
 P501 Dispose of contents/container in accordance with local / regional / national / international regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Description: Active substance with propellant.

Dangerous components:		
CAS: 115-10-6 EINECS: 204-065-8 Reg. No: 01-2119472128-37	Dimethyl ether Flam. Gas 1, H220; Press. Gas (Comp.), H280	25-<50%
CAS: 67-64-1 EINECS: 200-662-2 Reg. No: 01-2119471330-49	Acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-<25%
CAS: 78-93-3 EINECS: 201-159-0 Reg. No: 01-2119457290-43	Butanone / MEK (methyl-ethyl ketone) Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-<25%
CAS: 1330-20-7 EINECS: 215-535-7 Reg. No: 01-2119488216-32	Xylene (mix) Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2,5-<10%
CAS: 7779-90-0 EINECS: 231-944-3	trizinc bis(orthophosphate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-<10%
EC number: 918-668-5 Reg. No: 01-2119455851-35	Solvent naphtha (petroleum), light arom. Benzene<0,1% Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	2.5-<10%
CAS: 107-98-2 EINECS: 203-539-1 Reg. No: 01-2119457435-35	1-methoxy-2-propanol Flam. Liq. 3, H226; Acute Tox. 4, H312; STOT SE 3, H336	2.5-<10%

* Full text of hazard statements provided in section 16 of the Material Safety Data Sheet.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Respiratory system:

ensure fresh air, in case of afflictions call a doctor.

Skin:

In general the product does not cause skin irritation.

Eyes:

rinse eye with open eyelid under running water for several minutes. In case of persistent symptoms consult a doctor.

Alimentary tract:

Do not induce vomiting; immediately call medical help.

4.2. Most important symptoms both acute and delayed

No data.

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

No data.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Proper extinguishing media:

Water mist, extinguishing powder, carbon dioxide, foam resistant to alcohol.

Extinguishing media unsuitable due to safety reasons:

Full jet of water.

5.2. Special hazards arising from the substance or mixture

No data.

5.3. Advice for firefighters

Protective equipment: respiratory tract protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

Wear protective clothing. Keep away unprotected persons.

6.2. Environmental precautions:

Prevent leakage into sewage system or water reservoirs.

In case of release into sewage system or water reservoir inform appropriate authorities.

Prevent release into sewer drains /surface waters /ground waters.

6.3. Methods and materials for containment and cleaning up:

Ensure efficient ventilation.

Do not rinse with water or water based cleaning agents.

6.4. Reference to other sections

Safe handling see chapter 7.

Personal protective measures see chapter 8.

Disposal considerations see chapter 13.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

Ensure good ventilation/aspiration in a work place.

Open and handle the containers carefully.

Precautions against fire and explosion:

Do not spray towards flames or over glowing material. Keep away ignition sources – do not smoke.

Take precaution measures against electrostatic discharges.

Pressurized container. Protect from sunlight and temperatures over 50°C, e.g. electric light. Do not pierce or burn even after use.

EPOXY PRIMER SPRAY

7.2. Conditions for safe storage, including any incompatibilities

Storage and requirements for storage facilities and containers:
 Store in a cool place. Respect regulations concerning storage of pressurized gas containers.

Precautions for common storage:
 Respect regulations concerning storage of pressurized gas containers.

Additional information for storage conditions:
 Keep the containers tightly sealed. Do not close the container gas-tight. Store in a cool and dry place, in well closed containers.
 Protect from heat and direct sunlight.

7.3. Special end use(s)

No data.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

Additional recommendations for technical equipment: No further data, see point 7.

8.1. Parametry dotyczące kontroli

Control parameters

Components with controlled threshold values requiring monitoring at a work place:

115-10-6	dimethyl ether
WEL	Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
67-64-1	acetone
WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
78-93-3	butanone / MEK
WEL	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk, BMGV
1330-20-7	xylene (mix)
WEL	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
107-98-2	1-methoxy-2-propanol
WEL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Sk

DNELs:

67-64-1	acetone
Ingestion	DNEL Long-term systemic 62 mg/kg bw/day (Consumer)
Skin	DNEL Long-term systemic 62 mg/kg bw/ day (Consumer) 186 mg/kg bw/ day (Worker)
Inhalation	DNEL Acute-local 2420 mg/m ³ (Worker) DNEL Long-term systemic 200 mg/m ³ (Consumer) 1210 mg/m ³ (Worker)
78-93-3	butanone / MEK
Ingestion	DNEL Long-term systemic 31 mg/kg bw/ day (Consumer)
Skin	DNEL Long-term systemic 412 mg/kg bw/ day (Consumer) 1161 mg/kg bw/ day (Worker)
Inhalation	DNEL Long-term systemic 106 mg/m ³ (Consumer) 600 mg/m ³ (Worker)
Solvent naphtha (petroleum), light arom. Benzene <0,1%	
Ingestion	DNEL Long-term systemic 11 mg/kg bw/day (Consumer)
Skin	DNEL Long-term systemic 11 mg/kg bw/day (Consumer) 25 mg/kg bw/day (Worker)
Inhalation	DNEL Long-term systemic 32 mg/m ³ (Consumer) 100 mg/m ³ (Worker)

PNECs:

67-64-1 Acetone	
PNEC Marine water	1.06 mg/l (not specified)
PNEC Fresh water sediment	30.4 mg/kg (not specified)

EPOXY PRIMER SPRAY

PNEC Soil	29.5 mg/kg (not specified)
PNEC Marine water sediment	3.04 mg/kg (not specified)

Components with biological threshold values:

78-93-3 butanone / MEK	
BMGV	70 µmol/L Material: urine Sampling time: at the end of working shift Parameter: butan-2-ol
1330-20-7 xylene (mix)	
BMGV	650 mmol/mol creatinine Material: urine Sampling time: at the end of working shift Parameter: methyl hippuric acid

Additional Occupational Exposure Threshold Values for possible hazards when working with the product:

100-41-4 ethylbenzene	
WEL	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
108-88-3 toluene	
WEL	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 191 mg/m ³ , 50 ppm Sk

Additional information: Current lists were used as basis.

8.2. Exposure control

General measures of protection and hygiene:

Keep away from food, drinks and feed. Immediately take off soaked and contaminated clothes. Wash hands before work breaks and at the end of a working day.
Do not breathe gas/ vapour / aerosol.
Avoid contact with eyes and skin.

Respiratory tract protection:

In case of short-time exposure or slight pollution use protective mask. In case of intense or long-time exposure use self-contained breathing apparatus.

Filter AX/P2:

Use appropriate protective device in case of insufficient ventilation. Filter A/P2.

Hands protection:

Use protective gloves to work with chemicals in accordance with EN 374.



Protective gloves.

Gloves resistant to solvents.

Choice of gloves material depends on breakthrough time and rate, penetration time and degradation.

Material of gloves:

The choice of proper gloves depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. As the substance is a mixture of many substances, resistance of gloves cannot be assessed in advance, and has to be verified before use.

Nitrile rubber, NBR.

Recommended thickness of the gloves' material: 0.5 mm.

Penetration time of gloves' material

In case of continuous contact with the product we recommend the gloves with a breakthrough time of at least 240 minutes, however, a breakthrough time longer than 480 minutes is preferred. In case of short-term contact or protection against splashing, we recommend the same breakthrough time. We are aware that suitable gloves offering this level of protection may not be available. In this case, a shorter breakthrough time is acceptable, while maintaining the maintenance procedures and temporarily replacing the gloves. Thickness of gloves is not a good measure of their resistance to chemicals, because it depends on the composition of the material from which the gloves are made. The exact breakthrough time must be specified by the manufacturer and must be observed.

Eyes protection:

Protective glasses.



Tight protective goggles.

Body protection:

Use protective overalls (EN-13034/6).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	aerosol
Colour	grey
Odour	solvent like
Odour threshold	not specified
pH value	not specified
Melting/freezing point	not specified
Initial boiling point and boiling range	-24.9°C
Flash point	-42°C
Flammability (solid, gas)	not applicable
Autoignition point	Product is not auto ignitable
Explosive properties possible	product is not explosive, but formation of explosive mixtures is possible
Explosion limits	bottom: 0.7 Vol %, top: 20.0 Vol %
Vapour pressure at 20°C	5200 hPa
Density at 20°C	0.91 g/cm ³
Relative density	not specified
Vapour density	not specified
Evaporation rate	not applicable
Solubility in / miscibility with water	not miscible or difficult to mix
n-octanol/ water partition coefficient	not specified
Viscosity:	
Dynamic	not specified
Kinematic	not specified
Solvent content	
Organic solvents	71.1 %
Solids content	28.5 %

9.2 Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data.

10.2. Chemical stability

Thermal decomposition/ conditions to be avoided:
No decomposition if used according to specification.

10.3. Possibility of hazardous reactions

Hazardous reactions unknown.

10.4. Conditions to be avoided

No data.

10.5. Incompatible materials

No data.

10.6. Hazardous decomposition products

Unknown.

EPOXY PRIMER SPRAY

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity: based on available data, the classification criteria are not met.

67-64-1 acetone		
Ingestion	LD50	5800 mg/kg (rat)
Skin	LD50	7800 mg/kg (rabbit)
Inhalation	LC50/4h	>20 mg/l (rat)
78-93-3 butanone / MEK		
Ingestion	LD50	>2193 mg/kg (rat)
Skin	LD50	>5000 mg/kg (rabbit)
		5000 mg/kg (rabbit)
1330-20-7 xylene (mix)		
Ingestion	LD50	4300 mg/kg (rat)
Skin	LD50	2000 mg/kg (rabbit)
7779-90-0 trizinc bis(orthophosphate)		
Ingestion	LD50	5000 mg/kg (rat)
Solvent naphtha (petroleum), light arom. Benzene<0.1%		
Ingestion	LD50	3295 mg/kg (rat)
Skin	LD50	>3160 mg/kg (rat)

Irritating effects:

Caustic /irritating effect on skin: Based on available data, the classification criteria are not met.

Eye damage/irritation: Causes eye irritation.

Allergic effect on respiratory system or skin: Based on available data, the classification criteria are not met.

Carcinogenicity, mutagenicity and harmful effect on reproduction: Mutagenicity of germ cells. Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Harmful effect on reproduction: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

67-64-1 acetone	
EC50	8800 mg/l (<i>Daphnia magna</i>) 8300 mg/l (Fish) (96 h)
78-93-3 butanone / MEK	
LC50/96h	2993 mg/l (<i>Pimephales promelas</i>)
EC50/48h	308 mg/l (<i>Daphnia magna</i>)
1330-20-7 Xylen (mix)	
LC50/96h	8,9-16,4 mg/l (<i>Pimephales promelas</i>)
EC50/48h	3,2-9,5 mg/l (<i>Daphnia magna</i>)
7779-90-0 trizinc bis(orthophosphate)	
LC50/96h	0,14 mg/l (<i>Oncorhynchus mykiss</i>) (96 h)
EC50/48h	2,34 mg/l (<i>Daphnia magna</i>)
ErC(50) (72h)	0,14 mg/l (<i>Desmodesmus subspicatus</i>)
Solvent naphtha (petroleum), light arom. Benzene<0.1%	
NOELR (72h)	1 mg/l (<i>Pseudokirchneriella subcapitata</i>)
EL50(48h)	3,2 mg/l (<i>Daphnia magna</i>)
LL50 (96h)	9,2 mg/l (<i>Oncorhynchus mykiss</i>) (96 h)

12.2. Persistence and degradability

No data.

12.3. Bioaccumulative potential

No data.

12.4. Mobility in soil

Ecotoxic effects:

Caution: Toxic for fish.

General information:

Water hazard class 2 (German Regulation) (Self assessment): harmful for aquatic environment. Prevent leakage into ground waters, surface waters or sewage system. Even small leakage of the product to soil causes hazard of contamination of potable water.

Poisonous for fish and plankton in water reservoirs. Toxic to aquatic organisms.

12.5. Results of PBT and vPvB assessment

Components of the product has not been assessed as PBT and vPvB.

12.6. Other harmful effects

No data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendations:

Cannot be disposed of together with communal waste. Prevent leaking into sewage system.

Contaminated container:

Recommendation: Dispose of according to current regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

ADR, ADN, IMDG, IATA
UN 1950

14.2. UN proper shipping name

ADR, ADN UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS
IMDG (trizinc bis(orthophosphate), Solvent naphtha (petroleum), light arom. Benzene<0.1%)
MARINE POLLUTANT
IATA AEROSOLS, flammable

14.3. Transport hazard class(es)

ADR



Class 2 5F Gases
Label 2.1

Class R: 2 5F

IMDG



Class 2.1
Label 2.1

IATA



Class 2.1
Label 2.1

14.4. Packaging group

ADR, IMDG, IATA
None.

14.5. Environmental hazards

Product contains components hazardous for the environment:
trizinc bis(orthophosphate).

Marine pollutant:

Yes.

Symbol (fish and tree).

Special labelling (ADR):

Symbol (fish and tree).

14.6. Special precautions for user

Warning: Gases.

Danger code (Kemler) -

EMS Number F-D,S-U

Loading code SW1 Protected from heat sources.

SW22 For AEROSOLS with maximum capacity of 1liter: Category A.

For AEROSOLS with capacity of over 1 liter: Category B.

For WASTE AEROSOLS: Category C, with no access to living quarters.

SG69 for AEROSOLS with maximum capacity of 1 liter: Segregation as for class 9.

Segregation code

Loading "separated from" class 1 except group 1.4.

For AEROSOLS with capacity over 1 liter: Segregation as for corresponding group of class 2.

For WASTE AEROSOLS: Segregation as for corresponding group of class 2.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code

Not applicable.

Transport / Additional information

ADR

Limited quantities (LQ) 1 L

Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

Transport Category 2

Tunnel restriction code D

IMDG

Limited quantities (LQ) 1 L

Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

"UN Model Regulation"

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

SECTION 15: REGULATORY INFORMATION

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

Directive 2012/18/EU

Mentioned dangerous substances – ANNEX I

None of the components is mentioned.

Seveso Category

P3a AEROSOLS FLAMMABLE

E2 Hazardous for aquatic environment

Quantity qualifying (tonnes) for lower requirements 150 t

Quantity qualifying (tonnes) for higher requirements 500 t

Regulation (EC) No 1907/2006 ANNEX XVII Restriction conditions: 3

National Regulations:

Class NK

Share in % 50-<75

(VOC)-CH 71,10 %

(VOC)-UE 647,0 g/l

Danish MAL code 5-3

15.2 Chemical safety assessment

Not performed.

EPOXY PRIMER SPRAY

SECTION 16: OTHER INFORMATION

Data based on our latest knowledge, not specifies permanently production characteristics and cannot be used as justification of valid contracts.

Full text of hazard statements mentioned in sections 2-15 of the sheet:

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapours.
H226	Flammable liquid and vapours.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long-lasting effects.
H411	Toxic to aquatic life with long-lasting effects.

Abbreviations and acronyms mentioned in the sheet:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
MAL-Code:	Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic.
vPvB:	Very persistent and very bioaccumulative.
Flam. Gas 1:	Flammable gases, Hazard Category 1
Flam. Aerosol 1:	Flammable aerosols, Hazard Category 1
Press. Gas C:	Gases under pressure: Compressed gas
Flam. Liq. 2:	Flammable liquids, Hazard Category 2
Flam. Liq. 3:	Flammable liquids, Hazard Category 3
Acute Tox. 4:	Acute toxicity, Hazard Category 4
Skin Irrit. 2:	Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2:	Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3:	Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2:	Toxic effect on target organs (repeated exposure) - Category 2.
Asp. Tox. 1:	Aspiration hazard, Hazard Category 1
Aquatic Acute 1:	Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1:	Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2:	Hazardous to the aquatic environment - Chronic Hazard, Category 2

Other data sources:

ECHA European Chemicals Agency

TOXNET Toxicology Data Network

Changes in the sheet compared to the previous version:

Sections: 3.1, 3.2, 6.1, 8.0, 8.1, 9.1, 15.1.

Number of the Sheet: 071N6L2018V4