

Number: SDS\_EP

## Epoxid primer spray

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

## 1.1. Product identification

# **EPOXID PRIMER SPRAY**

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

SU21 Consumer uses: Private households / general public / consumers SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

• **Product category** PC9a Coatings and paints, thinners, paint removers

# Process category

PROC11 Non industrial spraying

PROC7 Industrial spraying

# Application of the substance / the preparation Paint Spray varnish 1.3. Details of the supplier of the safety data sheet

# Przedsiębiorstwo RANAL Sp. z o.o.

Ul. Warszawska 36a PL 42-240 Rudniki Tel: +48 34 329-45-03 Fax: +48 34 320-12-16

# Person responsible for the safety data sheet

e-mail: ranal@ranal.pl

# 1.4. Emergency telephone

+48 34 329-45-03 (from 7:30 am. to 3:30 pm.)

# SECTION 2: HAZARDS IDENTIFICATION

# 2.1. Classification of the substance or mixture

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



GHS02 flame Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2H319Causes serious eye irritation.

• Classification according to Directive 67/548/EEC or Directive 1999/45/EC

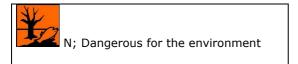
#### Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36: Irritating to eyes.





37.1.2

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

#### Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Warning! Pressurized container.

Has a narcotizing effect.

# Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

#### 2.2 Label elements

#### Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

# Code letter and hazard designation of product:



Xi Irritant

F+ Extremely flammable

N Dangerous for the environment

# • Risk phrases:

12 Extremely flammable.

36 Irritating to eyes.

- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.



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#### • Safety phrases:

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe vapour/spray.
- 29 Do not empty into drains.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

# • Special labeling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

Classification in accordance with Directive 75/324/EEC: Extremely flammable

#### 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

Substance name Identification numbers		Classification and marking	Concentration [%]	
dimethyl ether	CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128- 37	Classification 67/548/EEC: F+ R12 Classification 1272/2008/EC: Flam. Gas 1, H220; Press. Gas, H280	25-<50%	
Acetone	CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Classification 67/548/EEC: Xi R36; F R11 R66-67 Classification 1272/2008/EC Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-<20%	
butanone / MEK	CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	Classification 67/548/EEC: Xi R36; F R11 R66-67 Classification 1272/2008/EC Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-<20%	
xylene (mix)	CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	Classification 67/548/EEC: Xn R20/21; Xi R38 R10 Classification 1272/2008/EC Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	3-<10%	
trizinc bis(orthophosphate)	CAS: 7779-90-0 EINECS: 231-944-3	Classification 67/548/EEC: N R50/53 Classification 1272/2008/EC Aquatic Acute 1, H400; Aquatic Chronic 1, H410	3-<10%	
Solvent naphtha (petroleum), light arom. Benzene<0.1%	CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Classification 67/548/EEC: Xn R65; Xi R37; N R51/53 Classification 1272/2008/EC Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	2.5-<3%	



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1-methoxy-2-propanol	CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435- 35	Classification 67/548/EEC: R10-67 Classification 1272/2008/EC: Flam. Liq. 3, H226; STOT SE 3, H336	2.5-<3%
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#### 3.2 Mixtures

- Description: Active substance with propellant
- Dangerous components
- Additional information

#### **SECTION 4: FIRST AID MEASURES**

#### 4.1 Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

# SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

- Suitable extinguishing agents: Water haze Fire-extinguishing powder Carbon dioxide Alcohol resistant foam
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

• **Protective equipment:** Mount respiratory protective device.

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

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

# 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

# SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

#### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

• Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e.

electric lights. Do not pierce or burn, even after use.

# 7.2 Conditions for safe storage, including any incompatibilities

Storage:



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- Requirements to be met by storerooms and receptacles:
   Store in a cool location.
- Observe official regulations on storing packagings with pressurized containers. Information about storage in one common storage facility:
- Observe official regulations on storing packagings with pressurized containers.
  Further information about storage conditions: Keep receptacle tightly sealed. Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available

# SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

Additional information about design of technical facilities: No further data: see item 7.

#### 8.1. Control parameters

		it values that require monitoring at the	he workplace:	
112-1	0-6 dimethyl e WEL	Short-term value: 958 mg/m <sup>3</sup> , 500 ppr	n	
	VVEL	Long-term value: 958 mg/m <sup>3</sup> , 500 ppm		
67-64	-1 Acetone	Long-term value. 700 mg/m², 400 ppm	I	
07-04	WEL	Short tarm values 2620 mg/m3 1500 r		
	VVEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm		
70 02	2 hutonono /		111	
/0-93	-3 butanone / WEL		n	
	VVEL	Short-term value: 899 mg/m <sup>3</sup> , 300 ppm		
		Long-term value: 600 mg/m <sup>3</sup> , 200 ppm		
4000	20.7	Sk, BMGV		
1330-	20-7 xylene (r	-		
	WEL	Short-term value: 441 mg/m <sup>3</sup> , 100 ppr	n	
		Long-term value: 220 mg/m <sup>3</sup> , 50 ppm		
		Sk; BMGV		
107-9	8-2 1-methoxy			
	WEL	Short-term value: 560 mg/m <sup>3</sup> , 150 ppr		
		Long-term value: 375 mg/m <sup>3</sup> , 100 ppm	1	
		Sk		
DNEL				
67-64	-1 Acetone			
	Oral	DNEL Long term-systemic	62 mg/kg bw/day (Consumer)	
	Dermal	DNEL Long term-systemic	62 mg/kg bw/day (Consumer)	
			186 mg/kg bw/day (Worker)	
	Inhalative	DNEL Acute-local	2420 mg/m3 (Worker)	
		DNEL Long term-systemic	200 mg/m3 (Consumer)	
			1210 mg/m3 (Worker)	
78-93	-3 butanone /	MEK		
	Oral	DNEL Long term-systemic	31 mg/kg bw/day (Consumer)	
	Dermal	DNEL Long term-systemic	412 mg/kg bw/day (Consumer)	
			1161 mg/kg bw/day (Worker)	
	Inhalative	DNEL Long term-systemic	106 mg/m3 (Consumer)	
		<i>.</i> ,	600 mg/m3 (Worker)	
64742	2-95-6 Solvent	naphtha (petroleum), light arom. Ber	1zene<0.1%	
	Oral	DNEL Long term-systemic	11 mg/kg bw/day (Consumer)	
	Dermal	DNEL Long term-systemic	11 mg/kg bw/day (Consumer)	
		5 ,	25 mg/kg bw/day (Worker)	
	Inhalative	DNEL Long term-systemic	32 mg/m3 (Consumer)	
		_ · · /	100 mg/m3 (Worker)	
PNEC	5			
		tone		
	PNEC	Freshwater sediment	30.4 mg/kg (Undefind)	
	PNEC	Marine water	1.06 mg/l (Undefind)	
	PNEC	Soil	29.5 mg/kg (Undefind)	
Ingree		logical limit values:	(onderna)	
78-93-3 butanone / MEK				
	BMGV	70 µmol/L		
	2.101			

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Medium: urine Sampling time: post shift butan-2-one Parameter: 1330-20-7 xylene (mix) 650 mmol/mol creatinine BMGV Medium: urine Sampling time: post shift Parameter: methyl hippuric acid Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls **Personal protective equipment:** ·General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes. Avoid contact with the eyes and skin. **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Use suitable respiratory protective device in case of insufficient ventilation. Filter AX/P2 **Protection of hands:** Protective gloves Solvent resistant gloves Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves Nitrile rubber, NBR Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection:



Tightly sealed goggles

• Body protection: Use protective suit.

# 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Aerosol
Colour:	Grey
Odour:	Solvent-like
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	: Undetermined.
Boiling point/Boiling range:	-24 °C
Flash point:	-4 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	235 °C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
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Explosion limits:		
Lower:	0.7 Vol %	
Upper:	18.6 Vol %	
Vapour pressure at 20 °C:	5200 hPa	
Density at 20 °C:	0.91 g/cm <sup>3</sup>	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with	th	
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/water): Not determined.		
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	71.1 %	
Solids content: 2	8.5 %	
·9.2 Other information	No further relevant information available	

# SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

- 10.2 Chemical stability
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

67-64-1 Acetone					
Oral	LD50	5800 mg/kg (rat)			
Dermal	LD50	7800 mg/kg (rbt)			
Inhalative	LC50/4h	>20 mg/l (rat)			
78-93-3 butanone	•				
Oral	LD50	>2193 mg/kg (rat)			
Dermal	LD50	>5000 mg/kg (rabbit)			
1330-20-7 xylene (mix)		5000 mg/kg (rbt)			
Oral	LD50	4300 mg/kg (rat)			
Dermal	LD50	2000 mg/kg (rbt)			
7779-90-0 trizinc b	ois(orthophosp	hate)			
Oral	LD50	5000 mg/kg (rat)			
64742-95-6 Solvent naphtha (petroleum), light arom. Benzene<0.1%					
Oral	LD50	3295 mg/kg (rat)			
Dermal	LD50	>3160 mg/kg (rat)			
<ul> <li>Primary irri</li> </ul>					
on t	on the skin: No irritant effect.				
on t	on the eye: Irritating effect.				
Sensitization: No sensitizing effects known.					
Additional toxicological information:					
The product shows the following dangers according to the calculation method of the General EU Classification					
Guidelines for Preparations as issued in the latest version:					
Irritant					
interne					

# SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity Aquatic toxicity: 67-64-1 Acetone EC50

8800 mg/l (Daphnia magna) 8300 (96h) mg/l (Fish) Page: 7 of 8 MATERIAL SAFETY DATA SHEET Date of issue: 25.09.2013

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78-93-3 butanone / MEK EC50/48h 308 mg/l (Daphnia magna) LC50/96h 2993 mg/l (Pimephales promelas) 1330-20-7 xylene (mix) 3.2-9.5 mg/l (Daphnia magna) EC50/48h 8.9-16.4 mg/l (Pimephales promelas) LC50/96h 7779-90-0 trizinc bis(orthophosphate) EC50/48h 2.34 mg/l (Daphnia magna) ErC(50) (72h) 0.14 mg/l (Desmodesmus subspicatus) 0.14 mg/l (Oncorhynchus mykiss (96h)) LC50/96h 64742-95-6 Solvent naphtha (petroleum), light arom. Benzene<0.1% EL50(48h) 3.2 mg/l (Daphnia magna) LL50 (96h) 9.2 mg/l (Oncorhynchus mykiss (96h)) NOELR (72h) 1 mg/l (Pseudokirchneriella subcapitata) 12.2 Persistence and degradability No further relevant information available. 12.3 Bioaccumulative potential No further relevant information available. 12.4 Mobility in soil No further relevant information available. **Ecotoxical effects:** Remark: Toxic for fish Additional ecological information: **General notes:** Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms 12.5 Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. **12.6 Other adverse effects** No further relevant information available. SECTION 13: DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system. Uncleaned packaging: **Recommendation:** Disposal must be made according to official regulations. **SECTION 14: TRANSPORT INFORMATION** 14.1 UN-Number ADR, IMDG, IATA UN1950 • 14.2 UN proper shipping name 1950 AEROSOLS, ENVIRONMENTALLY ٠ ADR HAZARDOUS IMDG AEROSOLS (trizinc bis(orthophosphate), Solvent naphtha (petroleum), light arom. Benzene<0.1%), MARINE POLLUTANT IATA AEROSOLS, flammable 14.3 Transport hazard class(es) <u>ADR</u> Class 2 5F Gases. Label 2.1 <u>IMDG</u>

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	ass bel	2.1 2.1	
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	ass	2.1	
La	bel	2.1	
14.4 P	acking group		
• 14.5	ADR, IMDG, IATA Environmental hazar	ds:	Void Product contains environmentally hazardous substances:
_			trizinc bis(orthophosphate)
	Marine pollutant:		Yes Symbol (fish and tree)
146	Special marking (ADF		Symbol (fish and tree)
14.6	Special precautions for Danger code (Kemler		Warning: Gases.
	EMS Number:	-	F-D,S-U
14.71	<i>ransport in bulk accore</i> MARPOL73/78 and th	ing to Annex IBC Code	Not applicable.
	Transport/Additional		
	ADR Limited quant	ities (LQ)	1L
	Transport cate	egory	2
	Tunnel restric UN "Model Re		D UN1950, AEROSOLS, ENVIRONMENTALLY
			HAZARDOUS, 2.1
SECTI	ON 15: REGULATORY I	NFORMATION	
15.1 S	afety, health and envir National regulations: Technical instructions Class NK	-	ulations/legislation specific for the substance or mixture
	VOC-CH	71.09 %	
	VOC-EU Danish MAL Code	646.9 g/l 5-3	
15.2 C			cal Safety Assessment has not been carried out.
SECTI	ON 16: OTHER INFORM		
This inf	formation is based on our	nresent knowl	edge. However, this shall not constitute a guarantee for any
			a legally valid contractual relationship.
• H2		mable gas.	
H2	25 Highly flammab	le liquid and va	apour.
H2 H2			may explode if heated.
H3	04 May be fatal if s	swallowed and e	
H3			
H3 H3			
H3	32 Harmful if inhal	ed.	
Н3 Н3			
H3 H4			1535.

H400

H410

Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. H411

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# **Epoxid primer spray**

- R10 Flammable.
- R11 Highly flammable.
- Extremely flammable. R12
- R20/21 Harmful by inhalation and in contact with skin.
- R36 Irritating to eyes.
- R37 Irritating to respiratory system.
- R38 Irritating to skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

- environment.
  - R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  - R65
    - Harmful: may cause lung damage if swallowed.
  - R66 Repeated exposure may cause skin dryness or cracking.
  - R67 Vapours may cause drowsiness and dizziness.

# Abbreviations and acronyms:

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 Harmonized 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