

ANTI-CORROSIVE EPOXY PRIMER SPRAY

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

1.1. Product identification ANTI-CORROSIVE EPOXY PRIMER SPRAY

UFI: C3W0-F0NP-7005-4U9M

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

Possible uses:

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 the substance/mixture:

Paint.
Spray.

1.3. Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.

Ul. Łódzka 3
42-240 Rudniki k. Częstochowy, PL

Tel.: +48 34 329 45 03
Fax: +48 34 320 12 16
Registration number 000029202

Person responsible for the safety data sheet: ranal@ranal.pl

1.4. Emergency telephone

+48 34 329-45-03 (7:30 - 15:30)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to the Regulation (EC) no 1272/2008:



GHS02 flame
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.



GHS07
Skin Irrit. 2 * H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

2.2. Label elements

Classification according to the regulation (EC) no 1272/2008*:

The product has been classified and labelled according to CLP regulation.

Hazard pictograms:



GHS02



GHS07



GHS09*

Signal word: **DANGER.**

Contains*:

Acetone. Butan-2-one. 1-methoxypropan-2-ol.

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Hazard statements (CLP)*:

H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H315*	Causes skin irritation.
H319	Causes eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long-lasting effects.

Precautionary statements (CLP)*:

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.
P260*	Do not breathe mist/vapours/spray.
P271*	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear eyes protection / face protection.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P403	Store in a well-ventilated place.
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.

2.3. Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable.
vPvB: Not applicable.

Endocrine disrupting properties*:

Butan-2-one (78-93-3): List II

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Description: Mixture of biocatalysts with liquid propellant*.

Hazardous components:		
CAS: 115-10-6 EC: 204-065-8 Reg.No: 01-2119472128-37	Dimethyl ether Flam. Gas 1, H220; Press. Gas (Comp.), H280.	25 - <50 %
CAS: 67-64-1 EC: 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 EC: 201-159-0 Reg.No: 01-2119457290-43	Butan-2-one Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10 - <25 %
EC: 905-562-9 Reg.No: 01-2119485044-40	Product of reaction mass of ethylbenzene and m-xylene and p-xylene* 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 EC: 231-944-3 Reg. No*: 01-2119485044-40	Trizinc bis(orthophosphate)* Composed of 1314-13-2 zinc oxide (< 3%)* Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5 - <10 %
EC: 905-588-0 Reg.No: 01-2119488216-32 01-2119486136-34	Reaction mass of ethylbenzene and xylene* 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: 107-98-2 EC: 203-539-1 Reg.No: 01-2119457435-35	1-methoxypropan-2-ol 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 Sheet.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Airways: Supply fresh air; consult a doctor in case of complaints.

Skin: Generally the product does not irritate the skin.

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

Alimentary tract: Do not induce vomiting; call for medical help immediately.

4.2. Most important symptoms both acute and delayed

Information not available.

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4.3 Indications of any immediate medical attention and special treatment needed

Information not available

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents: 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

Information not available

5.3. Advice for fire fighters

Protective equipment: Respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

Wear protective clothing. Move unprotected persons to a safe place.*

6.2. Environmental precautions

Do not allow product to reach sewage system or water courses. 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 materials for containment and cleaning up

Provide adequate ventilation. Do not flush with water or aqueous cleansing agents

6.4. Reference to other sections

Disposal considerations – see section 7 of the Sheet. Personal protection measures – see section 8 of the Sheet. Disposal considerations – see section 13 of the Sheet.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

Provide good ventilation / exhaustion in the workplace. Open and handle the containers carefully.

Precautions against fire and explosion:

Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - do not smoke. Take precautionary measures against electrostatic discharges.

Warning: Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, e.g. electric lights. Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including any incompatibilities

Storage and requirements for storage facilities and containers:

Keep cool. Respect regulations concerning storage of pressurized gas containers.

Information about storage in one common storage facility:

Respect regulations concerning storage of pressurized gas containers.

Further information about storage conditions:

Keep containers tightly closed. Do not use gas-tight insulation in containers.

Store in cool, dry conditions in well-sealed receptacles.

Protect from heat and direct sunlight.

7.3. Special end use (s)

Information not available

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

Additional information on the design of technical facilities. No further data; see section 7 of the Sheet.

8.1. Control parameters

Components with limit values that require monitoring at the workplace:

115-10-6 dimethyl ether	
MPC	1000 mg/m ³
67-64-1 Acetone	
MPC	MPIC: 1800 mg/m ³ , MPC: 600 mg/m ³
78-93-3 butan-2-one	
MPC	MPIC: 900 mg/m ³ MPC: 450 mg/m ³ Skin

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107-98-2 1-methoxy-propanol-2-ol *	
MPC	MPIC: 360 mg/m ³ MPC: 180 mg/m ³ Skin

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 butan-2-one		
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)

Product of reaction mass of ethylbenzene and m-xylene and p-xylene*		
Ingestion:	DNEL Long term systemic	1.6 mg/kg bw/day (Consumer)
Skin	DNEL Long term systemic	125 mg/kg bw/day (Consumers)
		180 mg/kg bw/day (Worker)
Inhalation	DNEL Acute systemic	260 mg/m ³ (Consumer)
		442 mg/m ³ (Worker)
	DNEL Acute-local	260 mg/m ³ (Consumer)
		293 mg/m ³ (Worker)
	DNEL Long term systemic	15 mg/m ³ (Consumer)
		77 mg/m ³ (Worker)
	DNEL Long term systemic	65.3 mg/m ³ (Consumer)
		221 mg/m ³ (Worker)

7779- 90 -0 Trizinc bis(orthophosphate)*		
Ingestion:	DNEL Long term systemic	0.83 mg/kg bw/day (Consumer)
Skin	DNEL Long term systemic	83 mg/kg bw/day (Consumer)
		83 mg/kg bw/day (Worker)
Inhalation	DNEL Long term systemic	2.5 mg/m ³ (Consumer)
		5 mg/m ³ (Worker)

Reaction mass of ethylbenzene and xylene*		
Ingestion:	DNEL Long term systemic	1.6 mg/kg bw/day (Consumer)
Skin	DNEL Long term systemic	108 mg/kg bw/day (Consumer)
		180 mg/kg bw/day (Worker)
Inhalation	DNEL Acute systemic	174 mg/m ³ (Consumer)
		289 mg/m ³ (Worker)
	DNEL Acute local	289 mg/m ³ (Worker)
	DNEL Long term systemic	14.8 mg/m ³ (Consumer)
		77 mg/m ³ (Worker)
	DNEL Long term systemic	174 mg/m ³ (Consumer)
		221 mg/m ³ (Worker)

107-98-2 1-methoxypropan-2-ol		
Ingestion:	DNEL Long term systemic	3.3 mg/kg bw/day (Consumer)
Skin	DNEL Long term systemic	18.1 mg/kg bw/day (Consumer)
		50.6 mg/kg bw/day (Worker)
Inhalation	DNEL Acute-local	553.5 mg/m ³ (Worker)
	DNEL Long term systemic	43.9 mg/m ³ (Consumer)
		369 mg/m ³ (Worker)

PNEC:

67-64-1 Acetone	
PNEC Marine water	1.06 mg/l (Undefined)
PNEC Freshwater sediment	30.4 mg/kg dry (undefined)
PNEC Soil	29.5 mg/kg (Undefined)
PNEC Marine water sediment	3.04 mg/kg dry (undefined)

7779- 90 -0 Trizinc bis(orthophosphate)*	
PNEC Fresh water	0.0206 mg/l (Undefined)
PNEC Marine water	0.0061 mg/l (Undefined)
PNEC fresh water sediment	117.8 mg/l (dry weight) (Undefined)
PNEC Soil (Undefined)	35600 mg/kg (Undefined)
PNEC Sewage Treatment Plant	0.1 mg/l (Undefined)
PNEC Sea water sediment	56.5 mg/l (dry weight) (Undefined)

Product of reaction mass of ethylbenzene and xylene	
PNEC Fresh water	0.327 mg/l (Undefined)
PNEC Marine water	0.327 mg/kg (Undefined)
PNEC Freshwater sediment	12.46 mg/kg dry (undefined)
PNEC Soil	2.31 (Undefined)
PNEC Sewage treatment plant*	6.58 mg/l (Undefined)
PNEC Marine water sediment	6.58 mg/l dry (undefined)

107-98-2 1-methoxypropan-2-ol	
PNEC Fresh water	10 mg/l (Undefined)
PNEC Freshwater sediment	41.6 mg/kg dry (undefined)
PNEC Soil	2.47 mg/kg (Undefined)

Additional information: The currently valid lists were used as basis.

8.2. Exposure control

General measures of protection and hygiene:

Keep away from foodstuffs, beverages and feed. Immediately take off contaminated clothes. Wash hands before each break and at the end of work. Do not breathe the gases/ fume / spray. Avoid contact with the eyes. Avoid contact with the eyes and skin.

General ventilation*.

Respiratory protection:

In case of short-term exposure or low contamination use a 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 A2/P2*.

Hands protection:

Use protective gloves when working with chemicals according to standard EN 374.



Protective gloves.

Solvent resistant gloves.

Selection of the glove material on consideration of the breakthrough times, rates of diffusion and degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product consists of several substances, the resistance of the glove material cannot be calculated in advance and should therefore be checked before use.

Nitrile rubber.

Recommended thickness of the material: ≥ 0.5 mm.

Penetration time of the glove material:

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. In case of short-term contact or protection against splashing, we recommend the same breakthrough time. We are aware that suitable gloves that offer 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. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eyes protection:

Protective glasses (EN-166).



Tight protective goggles.

Body protection:

Use protective overalls (EN-13034/6).

It is recommended to use antistatic, chemical and oil-resistant clothing as well as safety shoes (EN1149; EN340 & EN ISO 13688; 13034-6).*

Environmental control*:

Use an appropriate container to prevent environmental contamination.

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
Melting/freezing point	not specified
Boiling point or initial boiling point and boiling range*	-24.8 °C (115-10-6 dimethyl ether)
Flammability (solid, gas)	not applicable
Explosion limits	bottom: 0.7 Vol %, top: 20.0 Vol %
Flash point	-42°C
Auto ignition point	235°C *
pH-value	The mixture is non-polar / aprotic*
Viscosity	
Dynamic	not specified

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Kinematic	not specified
Solubility in / miscibility with water n-octanol/water partition coefficient (log value*)	not miscible or difficult to mix not specified
Vapour pressure at 20°C:	5200 hPa
Density at 20°C:	0.91 g/cm ³
Relative density:	not specified
Vapour density:	not specified

9.2 Other information

Form: aerosol

Important information on health and environment protection and safety*:

Combustion temperature:	The product is not self-igniting
Explosive properties:	The product is not explosive, but may form explosive mixtures with the air.* Not specified.
Organic solvents:	71.2 % *
Solids content:	28.5 %
Evaporation rate:	Not applicable

Information with regard to physical hazard classes*:

Explosives:	none
Flammable gases:	none
Aerosols:	Extremely flammable aerosol. Pressurized container: May burst if heated.
Oxidizing gases:	none
Gases under pressure:	none
Flammable liquids:	none
Flammable solids:	none
Self-reactive substances and mixtures:	none
Pyrophoric liquids:	none
Pyrophoric solids:	none
Self-heating substances and mixtures:	none
Substances and mixtures which emit flammable gases:	none
Oxidizing liquids:	none
Oxidizing solids:	none
Organic peroxides:	none
Substances corrosive to metals:	none
Desensitised explosives:	none

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant data available.

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

Information not available

10.5 Incompatible materials

Information not available

10.6 Hazardous decomposition products

Unknown.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on the hazard classes defined in Regulation (EC) No 1272/2008*

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

67-64-1 Acetone		
Oral	LD50	5800 mg/kg (Rat) (Acute Oral Toxicity*)
	ATE*	5800 mg/kg (rat)*
Skin	LD50	7800 mg/kg (rabbit)
	ATE*	20000 mg/kg / (nd)

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Inhalation	LC50/ 4h	> 15800 mg/kg (rabbit)
	ATE*	>20 mg/l (Rat)
		76 mg/l, 4h (rat)
78-93-3 butan-2-one		
Oral	LD50	> 2193 mg/kg (rat)
Skin	LD50	> 5000 mg/kg (rabbit)
		5000 mg/kg (rabbit)
Product of reaction mass of ethylbenzene, m-xylene and p-xylene*		
Oral	LD50	3500 mg/kg (rat)
Skin	LD50	12126 mg/kg (rabbit)
Inhalation	LC50 (4h)	27.124 mg/l (Rat)
7779- 90-0 Trizinc bis(orthophosphate)		
Oral	LD50	5000 mg/kg (rat)
Product of reaction mass of ethylbenzene and xylene		
Oral	LD50	3523 mg/kg (rat)
Skin	LD50	> 12126 mg/kg (rat)*
Inhalation	LC50 (4h)	29000 mg/l (Rat)
107-98-2 1-methoxypropan-2-ol		
Oral	LD50	4016 mg/kg (rat)
Skin	LD50	2000 mg/kg (rabbit)
Inhalation	LC50 (4h)	28.8 mg/l (Rat)*
	LC50 (6h)*	27596 mg/l (Rat)*

Irritating effect:

Skin corrosion/irritation: Causes skin irritation.*

Eye damage/irritation: Causes eye irritation.

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

Mutagenic effect on 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: May cause drowsiness or dizziness.

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.

11.2. Information on other hazards*

Endocrine disrupting properties*:

78-93-3 butan-2-one: List II

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity:

67-64-1 Acetone	
EC50	8800 mg/l (Daphnia magna)
	8300 mg/l (Fish)*
78-93-3 butan-2-one	
LC50/ 96h	2993 mg/l (<i>Pimephales promelas</i>)
EC50/ 48h	308 mg/l (Daphnia magna)
Product of reaction mass of ethylbenzene and xylene	
NOEC EC50/48h	1.3 mg/l (Fish)
NOEC (7 day)	0.96 mg/l (Dm)
NOEC (72h)	0.44 mg/l (algae)
NOEC (28 D)	16 mg/l (Bacteria)
LC50/ 96h	8.9- 16.4 mg/l (<i>Pimephales promelas</i>)
EC50/ 48h	3.2-9.5 mg/l/(dm)
7779-90-0 Trizinc bis(orthophosphate)*	
LC50	0.78 mg/l (<i>Pimephales promelas</i>)
EC50	0.147 mg/l (<i>Pseudokirchneriella subcapitata</i>)
NOEC	0.044 mg/l (Fish)
NOEC (7 days)	0.019 mg/l (<i>Pseudokirchneriella subcapitata</i>)
EC50 (72h)	0.136 mg/l (Algae)
LC50 (96h)	0.169 mg/l (Onc)
EC50 (48h)	2.34 mg/l (Daphnia magna)
EC(50) (72h)	0.14 mg/l (<i>Desmodesmus subspicatus</i>)
107-98-2 1-methoxypropan-2-ol*	
LC50 (96h) (static)	6812 mg/l (<i>Leuciscus idus</i>)
	>1000 mg/l (<i>Oncorhynchus mykiss</i>) (Fish, Acute Toxicity Test)
	20800 mg/l (<i>Pimephales promelas</i>)
EC50 (48h)	23300 mg/l (Daphnia magna)
LC50 (48h) (static)	21100- 25900 mg/l (Daphnia magna)

12.2. Persistence and degradability

Not easily biodegradable*.

12.3. Bioaccumulative potential

No data.

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12.4. Mobility in soil

No data. *

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Endocrine disrupting properties*

See section 11 for information on endocrine disrupting properties.

12.7. Other hazardous effects

Ecotoxic effects:

Warning: Poisonous to fish.

General notes:

Water hazard class 2 (Self-assessment): hazardous to aquatic environment. *

Do not allow the product to reach ground water, surface water or sewage system. Dangerous to drinking water if even small quantities leak into the ground.

Poisonous to fish and plankton in water reservoirs. Poisonous to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Recommendations:

Must not be disposed together with household garbage. Prevent from reaching sewage system.

European waste catalogue*:

HP3 Flammable

HP4 Irritating - causing skin irritation and eye damage

HP14 Ecotoxic.

Uncleaned packaging:

Recommendation: Dispose of according to applicable regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number*

ADR, ADN, IMDG, IATA

UN 1950

14.2. UN proper shipping name

ADR, ADN

IMDG

IATA

UN1950 AEROSOLS, AEROSOLS ENVIRONMENTALLY HAZARDOUS*

AEROSOLS, MARINE POLLUTANT *

AEROSOLS, flammable *

14.3. Transport hazard class (-es)

ADR



Class
Label

2 5F gases
2.1

ADN*:

Class ADN/R:

2 5F

IMDG



Class
Label 2.1

2.1 gases*

IATA



Class
Label

2.1 gases*
2.1

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14.4. Packaging group

ADR, IMDG, IATA none

14.5. Environmental hazards*

Marine pollutant: Yes.
Symbol (fish and tree).

Special marking (ADR): Symbol (fish and tree).

14.6. Special precautions for users

Warning: Gases.
Danger code (Kemler) -
EMS number F-D,S-U
Stowage Code SW22 Protected from heat sources.
SW22 For AEROSOLS with maximum capacity of 1 litre: Category A.
For AEROSOLS with capacity of over 1 litre: Category B.
For WASTE AEROSOLS: Category C, Clear of living quarters.
Segregation code SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for Class 9. Stow "separated from" "class 1 except for division 1.4.
For AEROSOLS with capacity of over 1 litre: Segregation as for the appropriate subdivision of class 2.
For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

14.7. Sea transport in bulk in accordance with IMO instruments*

Not applicable*

Transport/Additional information:
ADR
Excepted quantities (EQ) Code: E0 Not permitted as excepted quantities
Transport category 2
Tunnel restriction code D
IMDG
Limited quantities (LQ) 1 L
Excepted quantities (EQ) Code: E0 Not permitted as excepted quantities
"UN Model Regulation" 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:
Named dangerous substances: ANNEX I: None of the components is listed.

Seveso category:
P3a FLAMMABLE AEROSOLS
E2 Harmful to the aquatic environment
Quantity qualifying (tonnes) for lower tier requirements: 150t
Quantity qualifying (tonnes) for upper tier requirements: 500t
Regulation (EC) no 1907/2006 ANNEX XVII Restriction conditions: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II: none of the components are listed.*

REGULATION (EU) 2019/1148*

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit for the purpose of licensing according to Article 5 item 3): None of the components are listed.

Annex II - EXPLOSIVE PRECURSORS SUBJECT TO NOTIFICATION*:

67-64-1 Acetone

Regulation (EC) No 273/2004 on drug precursors*:

67-64-1 acetone: 3
78-93-3 butan-2-one: 3

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors*:

67-64-1 acetone: 3
78-93-3 butan-2-one: 3

National regulations:
Employment Limitation Tips *:
Class NK

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Share in % 50-< 75

VOC (VOC)-CH 65.07 % *
VOC (VOC)-UE 647.9 g/l *
Danish MAL Code 5-3

15.2. Chemical safety assessment

Not performed.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, it does not definitively define the production characteristics and cannot be used as a justification for valid contracts.

Full text of hazard statements mentioned in section 2 - 15 of the Sheet:

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
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 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.
EUH066* Repeated exposure may cause skin dryness or cracking.

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

PHYSICAL AND CHEMICAL PROPERTIES: The classification is based on the results of the mixtures tested. Health hazards, Environmental hazards: The method of classification of mixtures based on the constituents of the mixture (sum formula).

Explanation of 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 Existing Chemical Substances.
CAS: numerical symbol ascribed to a chemical substance by the American organization Chemical Abstracts Service (CAS).
MAL-Code: Måleteknisk Arbejdshygienisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark).
DNEL: No-Effect Level (REACH).
PNEC: Predicted no-effect concentration (REACH).
LC50: Lethal Concentration 50%.
LD50: Lethal dose 50%.
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bio-accumulative.
Flam. Gas 1: Flammable Gases - Category 1.
Aerosol 1: Aerosols - Category 1.
Press. Gas (Comp.): Gases under pressure - Compressed gas.
Flam. Liq. 2: Flammable liquids - Category 2.
Flam. Liq. 3: Flammable liquids - Category 3.
Acute Tox. 4: Acute toxicity - Category 4.
Skin Irrit. 2: Skin corrosion/irritation - Category 2.
Eye Irrit. 2: Eye damage/eye irritation - Category 2.
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3.
STOT RE 2: Specific target organ toxicity (repeated exposure) - category 2.
Asp. Tox. 1: Aspiration hazard - Category 1.
Aquatic Acute 1: Hazardous to the aquatic environment - acute hazard - Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment- long-term hazard - Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment- long-term hazard - Category 2

Other data sources:

ECHA European Chemicals Agency
TOXNET Toxicology Data Network

Changes in the Sheet compared to the previous version:

Update of sections:

9: rewording of sub-section 9.1: Information on basic physical and chemical properties

11: rewording of sub-section 11.1: Information on the hazard classes defined in Regulation (EC) No 1272/ 2008: added subsection 11.2. Information on other hazards

12: new subsection 12.6: Endocrine disrupting properties.

14: rewording of sub-section 14.1: UN number or ID number; rewording of sub-section 14.7: Sea transport in bulk in accordance with IMO instruments.

Changes in the content of sections:

1.1, 2.1, 2.2, 2.3, 3.2, 6.1, 8.1, 8.2, 9.1, 9.2, 11.1, 11.2, 12.1, 12.2, 12.4, 12.6, 13.1, 14.1, 14.2, 14.3, 14.5, 14.7, 15.1, 16.
General update.

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