

ACID ETCH PRIMER PROFESSIONAL SPRAY

SECTION 1. MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

1.1. Product identification:

ACID ETCH PRIMER PROFESSIONAL SPRAY

UFI: VRY0-501Y-Q00H-NECM

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

Aerosol coating.

1.3. Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.

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1.4. Emergency telephone

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to the regulation (EC) no 1272/2008 (CLP).



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosive effect

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

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, GHS08, GHS05, GHS07, GHS09

Signal word: **Danger**.

Components indicating hazard for labelling:

Butan-1-one.

Reaction mass of ethylbenzene and xylene.

Acetone.

2-methylpropan-1-ol.

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Hazard statements:

H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

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	Pressurized container – 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 protective gloves / eye protection.
P302+P352	IF ON SKIN: Wash skin with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep 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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Mixture

Hazardous components	Classification	H phrases	% weight
Dimethyl ether	CAS: 115-10-6 EINECS: 204-065-8 Reg. no: 01-2119472128-37	Flam. Gas 1A, H220; Press. Gas (Liq), H280	25-<50
Acetone	CAS: 67-64-1 EINECS: 200-662-2 Reg. no: 01-2119471330-49	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	25-<50
Product of reaction mass of ethylbenzene and xylene	EC number: 905-588-0 Reg. no: 01-2119488216-32 01-2119486136-34	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	10-<25
Propane-2-ol	CAS: 67-63-0 EINECS: 200-661-7 Reg. no: 01-2119457558-25	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5-<10
Butan-1-ol	CAS: 71-36-3 EINECS: 200-751-6 Reg. no: 01-2119484630-38	Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	≥ 3-<10
Trizinc bis(orthophosphate) Composed of 1314-13-2 zinc oxide(< 3%)	CAS: 7779-90-0 EINECS: 231-944-3 Reg. no: 01-2119485044-40	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-<10
2-methylpropan-1-ol	CAS 78-83-1 EINECS: 201-148-0 Reg. no: 01-2119484609-23	Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336	1-<2.5
Xylene	CAS: 1330-20-7 EINECS: 215-535-7 Reg. no: 01-2119488216-32	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	1-<2.5
zinc oxide	CAS: 1314-13-2 EINECS: 215-222-5 Reg. no: 01-2119463881-32	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥ 0.25-<1

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information: Symptoms of poisoning may not occur until several hours later, therefore medical supervision is necessary for at least 48 hours after the accident.

After inhalation: Provide fresh air, possibly artificial respiration, warmth. If symptoms persist, consult a doctor. In case of loss of consciousness place and transport in stable recovery position.

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.

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4.2. Most important symptoms both acute and delayed

No further relevant information available.

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

No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Useful extinguishing media: water mist, extinguishing powder, carbon dioxide, foam resistant to alcohol.
Unsuitable extinguishing media: full jet of water.

5.2. Special hazards arising from the substance or mixture

No further relevant data available.

5.3. Advice for fire fighters

Special protective equipment: Wear 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 the product to reach sewage system water reservoirs
Inform respective authorities in case of seepage into water course or sewage system.
Prevent the product from entering sewage systems, surface waters and groundwater.

6.3. Methods and materials for containment and cleaning up

Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.

6.4. Reference to other sections

Information on safe handling see section 7.
Information on personal protective measures see section 8.
Information on disposal see section 13.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

Provide good ventilation / exhaustion in the workplace.

Information about fire - and explosion protection:

Do not spray towards flames or over glowing material. Keep ignition sources away - Do not smoke. Take precautionary measures against static discharges. Warning: Pressurized container. Protect from sunlight and temperatures above 50°C. Do not open violently and do not burn even after use.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:
Store in a cool location.
Observe official regulations on storing packaging with pressurised containers.

Information about storage in one common storage facility:

Observe official regulations on storing packaging with pressurised containers.

Further information about storage conditions:

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

7.3. Special end uses

No further relevant data available.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

8.1. Control parameters

Components with limit values that require monitoring depending on the workplace:

Components with limit values that require monitoring at the workplace:

115-10-6 dimethyl ether

MPC: 1000 mg/m³

67-64-1 Acetone

MPIC: 1800 mg/m³ MPC: 600 mg/m³

67-63-0 propan-2-ol

MPIC: 1200 mg/m³ MPC: 900 mg/m³ skin

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71-36-3 butan-1- ol			
MPC MPIC: 150 mg/m ³	MPC: 50 mg/m ³	skin	
78-83-1 2-methylpropan -1-ol			
MPC MPIC: 200 mg/m ³	MPC: 100 mg/m ³	skin	
1330-20-7 xylene			
MPIC: 200 mg/m ³	MPC: 100 mg/m ³	skin	

Regulatory information:

MPC: Official Journal 2021, item 325, 18/02/2021

DNEL values:

67-64-1 Acetone

Oral	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)

Product of reaction mass of ethylbenzene and xylene

Oral	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 - local	174 mg/m ³	(Consumer)
			221 mg/m ³	(Worker)

67-63-0 propan-2-ol

Oral	DNEL	Long term-systemic	26 mg/kg bw/day	(Consumer)
Skin	DNEL	Long term-systemic	319 mg/kg bw/day	(Consumer)
			888 mg/kg bw/day	(Worker)
Inhalation	DNEL	Long term-systemic	89 mg/m ³	(Consumer)
			500 mg/m ³	(Worker)

71-36-3 butan-1- ol

Oral	DNEL	Long term-systemic	3125 mg/kg bw/day	(Consumer)
			0.3 mg/kg bw/day	(Worker)
Skin	DNEL	Long term-systemic	2.7 mg/kg bw/day	(Consumer)
			5.5 mg/kg bw/day	(Worker)
Inhalation	DNEL	Acute-systemic	159.8 mg/m ³	(Consumer)
			214 mg/m ³	(Worker)
	DNEL	Long term-systemic	0.5 mg/m ³	(Consumer)
			2.7 mg/m ³	(Worker)
	DNEL	Long-term - local	55 mg/m ³	(Consumer)
			310 mg/m ³	(Worker)

7779-90-0 Trizinc bis(orthophosphate)

Oral	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)

78-83-1 2-methylpropan -1-ol

Inhalation	DNEL	Long term- local	55 mg/m ³	(Consumer)
			310 mg/m ³	(Worker)

1330-20-7 xylene

Oral	DNEL	Long term-systemic	12.5 mg/kg bw/day	(Consumer)
Skin	DNEL	Long term-systemic	125 mg/kg bw/day	(Consumer)
			212 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)
			442 mg/m ³	(Worker)
	DNEL	Long term-systemic	65.3 mg/m ³	(Consumer)
			221 mg/m ³	(Worker)
	DNEL	Long-term - local	65.3 mg/m ³	(Consumer)
			221 mg/m ³	(Worker)

PNEC values:

67-64-1 Acetone

PNEC	Sea water	1.06 mg/l (Undefined)
PNEC	Fresh water sediment	30.4 mg/l (dry mass) (Undefined)
PNEC	Soil	29.5 mg/kg (Undefined)
PNEC	Sea water sediment	3.04 mg/l (dry mass) (Undefined)

Product of reaction mass of ethylbenzene and xylene

PNEC	Fresh water	0,327 mg/l (Undefined)
PNEC	Sea water	0.327 mg/l (Undefined)
PNEC	Fresh water sediment	12.64 mg/l (dry mass) (Undefined)
PNEC	Soil	2.31 mg/kg (Undefined)

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PNEC	Sewage treatment plant	6.58 mg/l (Undefined)
PNEC	Sea water sediment	12.64 mg/l (dry mass) (Undefined)
7779-90-0 Trizinc bis(orthophosphate)		
PNEC	Fresh water	0.0206 mg/l (Undefined)
PNEC	Sea water	0.0061 mg/l (Undefined)
PNEC	Fresh water sediment	117.8 mg/l (dry mass) (Undefined)
PNEC	Soil	35600 mg/kg (Undefined)
PNEC	Sewage treatment plant	0.1 mg/l (Undefined)
PNEC	Sea water sediment	56.5 mg/l (dry mass) (Undefined)

Regulatory information:

Additional exposure limits with possible technological hazards:

100-41-4 Ethylbenzene

MPIC: 400 mg/m³ MPC: 200 mg/m³ skin

108-88-3 Toluene

MPIC: 200 mg/m³ MPC: 100 mg/m³ skin

Additional information:

The currently valid lists were used as basis.

8.2. Exposure control

Technical control measures:

No further data; see section 7.

Individual protection measures, such as personal protective equipment:

General measures of protection and hygiene:

Keep away from foodstuffs, beverages and feed. Take off immediately all contaminated clothing. Wash hands before each break and at the end of work. Do not breathe gases/ vapours / spray. Avoid contact with the eyes. Avoid contact with the eyes and skin. General ventilation.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A2/P2.

Hands protection:

Use protective gloves to work 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 is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to application.

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 min. with the preference given to a breakthrough time greater than 480 min. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. 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.

Eye/face protection:

Protective glasses (EN-166).

Tightly sealed goggles.

Body protection:

Use protective suit (EN-13034/6).

Full skin covering antistatic, chemical and oil resistant clothing and safety shoes (EN1149; EN340&EN ISO 13688; EN13034-6) are recommended.

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

General information:

Physical state

Aerosol

Colour:

according to product name

Odour:

Characteristic

Odour threshold:

Not specified

Melting point/freezing point:

Undetermined.

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Boiling point or initial boiling point and boiling range:	-24.8 °C (115-10-6 dimethyl ether)
Flammability:	Not applicable.
Bottom and top explosion limit:	
Bottom:	1 vol. %
Top:	18.6 vol. %
Flash point:	-42°C
Auto ignition point:	235°C
pH:	The mixture is non-polar/aprotic
Viscosity:	
Kinematic viscosity:	≤20.5 mm ² /s, 40°C (L)
Dynamic:	Not determined.
Solubility:	
Water:	fully miscible
n-octanol/water partition coefficient (Log Pow value):	Not specified
Vapour pressure at 20°C:	3600 hPa
Vapour pressure at 50 °C:	6400 hPa
Density and/or relative density:	
Density at 20°C:	0.829 g/cm ³
Relative density:	Not specified
Vapour density:	Not specified

9.2. Other information

Appearance:	
Form:	Aerosol
Important information on protection of health and environment, and on safety:	
Ignition temperature:	The product is not self-igniting
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
Solvent content:	
Organic solvents:	87.8 %
Solids content:	15.1 %
Change of state:	
Evaporation rate:	Not applicable
Information on the 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 in contact with water:	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 as intended.

10.3. Possibility of hazardous reactions

Hazardous reactions unknown.

10.4. Conditions to be avoided

No further relevant data available.

10.5. Incompatible materials

No further relevant data available.

10.6. Hazardous decomposition products

Hazardous decomposition products unknown.

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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.

Relevant classified LD/LC50 values:

ATE (Estimated acute toxicity):

Oral	ATE	9524 mg/kg
Skin	ATE	4385 mg/kg
Inhalation	ATE	43.9 mg/l, 4h

67-64-1 acetone

Oral	LD50	5800 mg/kg	(Rat) (Acute Oral Toxicity)
	ATE	5800 mg/kg	(Rat)
Dermal	LD50	7800 mg/kg	(Rabbit)
	ATE	20000 mg/kg	(nd)
		>15800 mg/kg	(Rabbit)
Inhalation	LC50(4h)	>20 mg/l	(Rat)
	ATE	76 mg/l, 4h	(rat)

Product of reaction mass of ethylbenzene and xylene

Oral	LD50	3523 mg/kg	(Rat)
Dermal	LD50	12126 mg/kg	(Rabbit)
Inhalation	LC50(4h)	29000 mg/l	(Rat)

67-63-0 propan-2-ol

Oral	LD50	5840 mg/kg	(Rat) (Acute Oral Toxicity)
Oral	LD50	13900 mg/kg	(Rabbit) (Acute Dermal Toxicity)
Inhalation	LC50(4h)	>25 mg/l	(Rat)
	LC50	>25 mg/L	(Rat) (Acute Inhalation Toxicity)

71-36-3 butan-1-ol

Oral	LD50	2292 mg/kg	(Rat)
Dermal	LD50	3430 mg/kg	(Rabbit)
Inhalation	LC50(4h)	21 mg/l	(Rat)

7779-90-0 Trizinc bis(orthophosphate)

Oral	LD50	5000 mg/kg	(Rat)
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78-83-1 2-methylpropan-1-ol

Oral	LD50	24600 mg/kg	(Rat)
Dermal	LD50	3392 mg/kg	(Rabbit)
Inhalation	LC50	18.18 mg/L	(Rat)

1330-20-7 xylene

Oral	LD50	4300 mg/kg/bw	(Rat) (Acute Oral Toxicity)
Dermal	LD50	12126 mg/kg/bw	(Rabbit)
Inhalation	LC50(4h)	6350 mg/l	(Rat)

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

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.

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

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

Specific target organ toxicity – single exposure: May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: May be fatal if swallowed and enters airways.

11.2. Information on other hazards

Endocrine disrupting properties: None of the components is listed.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity:

67-64-1 Acetone

EC50	8800 mg/l	(Daphnia magna)
	8300 mg/l (Fish)	

Product of reaction mass of ethylbenzene and xylene

NOEC	1.3 mg/l	(fish)
NOEC (7 days)	0.96 mg/l	(Daphnia magna)
NOEC (72h)	0.44 mg/l	(Algae)
NOEC (28 days)	16 mg/l	(Bacteria)
LC50 (96h)	8.9-16.4 mg/l	(Pimephales promelas)
EC50 (48h)	3.2-9.5 mg/l	(Daphnia magna)

67-63-0 propan-2-ol

EC50	>100 mg/l	(bacteria)
LOEC	(8 days)	1000 mg/l (Algae)
LC50 (96h)	9640 mg/l	(Pimephales promelas)
LC50 (24h)	9714 mg/l	(Daphnia magna)

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NOEC (21 days)	4.1 mg/l	(Daphnia magna)
LC50 (96h)	1376 mg/l	(Pimephales promelas)
EC50 (48h)	1328 mg/l	(Daphnia magna)
EC50	225 mg/l	(Selenastrum Capricornutum)

7779-90-0 Trizinc bis(orthophosphate)

LC50	0.78 mg/l	(Pimephales promelas)
EC50	0.147 mg/l	(Pseudokirchneriella subcapitata)
NOEC	0.044 mg/l	(fish)
NOEC (7 days)	0.019 mg/l	(Pseudokirchneriella subcapitata)
EC50 (72h)	0.136 mg/l	(algae)
LC50 (96h)	0.169 mg/l	(Onc)
EC50 (48h)	2.34 mg/l	(Daphnia magna)
ErC(50) (72h)	0.14 mg/l	(Desmodesmus subspicatus)

1330-20-7 xylene

LC50 (96h)	8.9-16.4 mg/l	(Pimephales promelas)
EC50 (48h)	3.2-9.5 mg/l	(Daphnia magna)

12.2. Persistence and degradability

It is not easily biodegradable.

12.3 Bioaccumulative potential

No further relevant data available.

12.4. Mobility in soil

No further relevant data available.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7. Other hazardous effects

Warning: Poisonous to fish.

Further ecological information:

General information:

Water hazard class 2 (Self-assessment): hazardous to water.
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.
Also poisonous for fish and plankton in water bodies.
Poisonous to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendation:

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.
HP5	Specific Target Organ Toxicity (STOT) or aspiration hazard.
HP14	Ecotoxic.

Uncleaned packaging:

Recommendation: Dispose of according to applicable regulations.

Recommended cleaning agent: Water, if necessary with the addition of cleaning agents.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number

ADR, ADN, IMDG, IATA UN1950

14.2. Proper shipping name

ADR, ADN UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
IMDG AEROSOLS, MARINE POLLUTANT
IATA AEROSOLS, flammable

14.3. Class/ Classification code

ADR:

Class: 2 5F Gases

Label 2.1

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ADN
Class ADN/R: 2 5F

IMDG:
Class 2.1 gases
Label 2.1



IATA:
Class 2.1 gases
Label 2.1



14.4. Packaging group
None.

14.5. Environmental hazards

The product contains substances hazardous to the environment: Trizinc bis(orthophosphate)

Marine pollutants: No
Symbol (fish and tree)
Special labelling (ADR): Symbol (fish and tree)

14.6. Special precautions for users
Warning: gases.

Hazard identification number (Kemler code): -
EMS Number: F-D,S-U
Stowage Code: SW1 Protected from sources of heat.
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A.
For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
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 a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

Segregation Code:

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 Quantity
Tunnel restriction code D

IMDG
Limited quantities (LQ) 1L
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
Indicated dangerous components- ANNEX I None of the components are listed.

Directive 2012/18/EU.
Named dangerous substances - ANNEX I : None of the components are listed.

Seveso category
E2 Hazardous to the aquatic environment
P3a FLAMMABLE AEROSOLS
Qualifying quantity (tonnes) for the application of lower-tier requirements: 150 t

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Qualifying quantity (tonnes) for the application of upper-tier requirements: 500 t
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 - REPORTABLE EXPLOSIVES PRECURSORS

67-64-1 acetone: 3

Regulation (EC) No 273/2004 on drug precursors

67-64-1 acetone: 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

Other regulations:

Breakdown regulations:

Class share %

NK 75-< 100

VOC-CH 87.75 %

VOC-EU 727.4 g/l

Danish MAL Code 4-3

15.2. Chemical safety assessment

Chemical safety assessment has not been 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.

Relative phrases:

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure: may explode if heated.
H302	Harmful when swallowed
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
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:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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:

RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).
ICAO:	International Civil Aviation Organisation.
ADR:	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road).
IMDG:	International Code for dangerous goods.
IATA:	International Air Transport Association.
GHS:	Globally Harmonized System of classification and labelling of chemicals.
EINECS:	European Inventory chemicals 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, Bio-accumulative and toxic.
vPvB:	very Persistent and very Bio-accumulative.
ATE:	Acute toxicity estimate values
Flam. Gas 1A:	Flammable gases- Category 1A.

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Aerosol 1: Aerosols – Category 1.
Press. Gas (Liq): Gases under pressure – Liquefied 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 Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious 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

Changes in the Sheet:

Not applicable.

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