

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 26.06.2024

Version number 5 (replaces version 4)

Revision: 26.06.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **Spot Primer**

Article number: 90242, 90243, 90244, 90245

UFI: J3P3-U02N-D001-XAWV

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

No further relevant information available.

Application of the substance / the mixture

Priming

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS02 GHS07

Signal word

Danger

Hazard-determining components of labelling:

acetone
n-butyl acetate
2-methoxy-1-methylethyl acetate
Hydrocarbons, C10, Aromatics, < 1% naphthaline

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful 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.
P103 Read carefully and follow all instructions.

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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.

P280

Wear 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.

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. Contains 4-morpholinecarbaldehyde. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Buildup of explosive mixtures possible without sufficient ventilation.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

vPvB:

Determination of endocrine-disrupting properties

For information on endocrine disrupting properties see section 11.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

Mixture: consisting of the following components.

Dangerous components:

CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	acetone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	25-50%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	<12.5%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	<12.5%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane, pure Flam. Gas 1A, H220 Press. Gas (Comp.), H280	<10%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	1-5%

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CAS: 9004-70-0 Index number: 603-037-00-6	nitrocellulose solutions, with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose Flam. Sol. 1, H228	1-5%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	1-5%
CAS: 7779-90-0 EINECS: 231-944-3 Index number: 030-011-00-6 Reg.nr.: 01-2119485044-40-0000	trizinc bis(orthophosphate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-5%
EC number: 918-811-1 Reg.nr.: 01-2119463583-34	Hydrocarbons, C10, Aromatics, < 1% naphthaline Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336 EUH066	1-5%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225 Eye Irrit. 2, H319	1-5%
CAS: 4394-85-8 EINECS: 224-518-3 Reg.nr.: 01-2119987993-12	4-morpholinecarbaldehyde Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<1%

· Additional information:

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures· **4.1 Description of first aid measures**

- General information: Take affected persons out into the fresh air.
- 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: If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed**

- Hazards 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: Use fire extinguishing methods suitable to surrounding conditions. CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

- Protective equipment: Wear self-contained respiratory protective device.

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· <u>Additional information</u>	Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.	
SECTION 6: Accidental release measures		
· <u>6.1 Personal precautions, protective equipment and emergency procedures</u>	Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away.	
· <u>6.2 Environmental precautions:</u>	Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.	
· <u>6.3 Methods and material for containment and cleaning up:</u>	Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.	
· <u>6.4 Reference to other sections</u>	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		
· <u>7.1 Precautions for safe handling</u>	Ensure good ventilation/exhaustion at the workplace.	
· <u>Information about fire - and explosion protection:</u>	Keep ignition sources away - Do not smoke.	
· <u>7.2 Conditions for safe storage, including any incompatibilities</u>		
· <u>Storage:</u>		
· <u>Requirements to be met by storerooms and receptacles:</u>	Observe official regulations on storing packagings with pressurised containers.	
· <u>Information about storage in one common storage facility:</u>	Not required.	
· <u>Further information about storage conditions:</u>	Keep container tightly sealed.	
· <u>Storage class:</u>	2 B	
· <u>7.3 Specific end use(s)</u>	No further relevant information available.	
SECTION 8: Exposure controls/personal protection		
· <u>8.1 Control parameters</u>		
· <u>Ingredients with limit values that require monitoring at the workplace:</u>		
67-64-1 acetone		
IOELV	Long-term value: 1210 mg/m³, 500 ppm	
123-86-4 n-butyl acetate		
IOELV	Short-term value: 723 mg/m³, 150 ppm Long-term value: 241 mg/m³, 50 ppm	
108-65-6 2-methoxy-1-methylethyl acetate		
IOELV	Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm Skin	
· <u>DNELs</u>		
67-64-1 acetone		
Oral	DNEL (Langzeit-wiederholt)	62 mg/kg bw/day (BEV)
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Dermal	DNEL (Langzeit-wiederholt)	186 mg/kg bw/day (ARB) 62 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	2,420 mg/m ³ Air (ARB)
	DNEL (Langzeit-wiederholt)	1,210 mg/m ³ Air (ARB) 200 mg/m ³ Air (BEV)

123-86-4 n-butyl acetate

Oral	DNEL (Kurzzeit-akut)	2 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	2 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	11 mg/kg bw/day (ARB) 6 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	11 mg/kg bw/day (ARB) 6 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	600 mg/m ³ Air (ARB) 300 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	48-300 mg/m ³ Air (ARB) 12-35.7 mg/m ³ Air (BEV)

108-65-6 2-methoxy-1-methylethyl acetate

Oral	DNEL (Kurzzeit-akut)	500 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	1.67 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	153.5 mg/kg bw/day (ARB) 54.8 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	550 mg/m ³ Air (ARB) 33 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	275 mg/m ³ Air (ARB) 33 mg/m ³ Air (BEV)

7779-90-0 trizinc bis(orthophosphate)

Oral	DNEL (Langzeit-wiederholt)	0.83 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	83 mg/kg bw/day (ARB) 83 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	5 mg/m ³ Air (ARB) 2.5 mg/m ³ Air (BEV)

Hydrocarbons, C10, Aromatics, < 1% naphthaline

Oral	DNEL (Langzeit-wiederholt)	4.5 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	12.5 mg/kg bw/day (ARB) 7.5 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	151 mg/m ³ Air (ARB) 32 mg/m ³ Air (BEV)

64-17-5 ethanol

Oral	DNEL (Langzeit-wiederholt)	87 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	950 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	343 mg/kg bw/day (ARB) 206 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	1,900 mg/m ³ Air (ARB) 950 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	950 mg/m ³ Air (ARB)

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	114 mg/m ³ Air (BEV)
· PNECs	
67-64-1 acetone	
PNEC (wässrig)	100 mg/l (KA) 1.06 mg/l (MW) 10.6 mg/l (SW) 21 mg/l (WAS)
PNEC (fest)	29.5 mg/kg Trockengew (BO) 3.04 mg/kg Trockengew (MWS) 30.4 mg/kg Trockengew (SWS)
123-86-4 n-butyl acetate	
PNEC (wässrig)	35.6 mg/l (KA) 0.018 mg/l (MW) 0.18 mg/l (SW) 0.36 mg/l (WAS)
PNEC (fest)	0.0903 mg/kg Trockengew (BO) 0.0981 mg/kg Trockengew (MWS) 0.981 mg/kg Trockengew (SWS)
108-65-6 2-methoxy-1-methylethyl acetate	
PNEC (wässrig)	100 mg/l (KA) 0.0635 mg/l (MW) 0.635 mg/l (SW) 6.35 mg/l (WAS)
PNEC (fest)	0.29 mg/kg Trockengew (BO) 0.329 mg/kg Trockengew (MWS) 3.29 mg/kg Trockengew (SWS)
64-17-5 ethanol	
PNEC (wässrig)	580 mg/l (KA) 0.79 mg/l (MW) 0.96 mg/l (SW) 2.75 mg/l (WAS)
PNEC (fest)	0.63 mg/kg Trockengew (BO) 0.72 mg/kg Trockengew (FUT) 2.9 mg/kg Trockengew (MWS) 3.6 mg/kg Trockengew (SWS)

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as 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 and skin.
Not necessary if room is well-ventilated.

· 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.

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· Hand protection

After use of gloves apply skin-cleaning agents and skin cosmetics.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· Material of gloves

Butyl rubber, BR

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 can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove materialValue for the permeation: Level ≤ 6

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

Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information· Colour:

According to product specification

· Odour:

Specific type

· Odour threshold:

Not determined.

· Melting point/freezing point:

Undetermined.

· Boiling point or initial boiling point and boiling range

Not applicable, as aerosol.

· Flammability

Not applicable.

· Lower and upper explosion limit· Lower:

1.2 Vol % (74-98-6 propane)

· Upper:

13 Vol % (67-64-1 acetone)

· Flash point:

Not applicable, as aerosol.

· Auto-ignition temperature:

365 °C (106-97-8 butane, pure)

· Decomposition temperature:

Not determined.

· pH

Not determined.

Not applicable

· Viscosity:· Kinematic viscosity

Not determined.

· Dynamic:

Not determined.

· Solubility· water:

Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log value)

Not determined.

· Vapour pressure at 20 °C:

8,300 hPa (74-98-6 propane)

· Density and/or relative density· Density at 20 °C:0.9 g/cm³· Relative density

Not determined.

· Vapour density

Not determined.

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9.2 Other information

- Appearance:
- Form: Aerosol
- Important information on protection of health and environment, and on safety.
- Explosive properties: Not determined.
- Solvent content:
- Organic solvents: 73.1 %
- Solids content: 19.3 %
- Change in condition
- Evaporation rate Not applicable.

· Information with regard to physical hazard classes

- Explosives Void
- Flammable gases Void
- Aerosols Extremely flammable aerosol. Pressurised container: May burst if heated.
- Oxidising gases Void
- Gases under pressure Void
- Flammable liquids Void
- Flammable solids Void
- Self-reactive substances and mixtures Void
- Pyrophoric liquids Void
- Pyrophoric solids Void
- Self-heating substances and mixtures Void
- Substances and mixtures, which emit flammable gases in contact with water Void
- Oxidising liquids Void
- Oxidising solids Void
- Organic peroxides Void
- Corrosive to metals Void
- Desensitised explosives Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **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 hazard classes as defined in Regulation (EC) No 1272/2008**
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:**67-64-1 acetone**

Oral	LD50	5,800 mg/kg (rat) (OECD 401)
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Dermal	NOEL	900 mg/kg (rat)
	LD50	15,688 mg/kg (rat)
Inhalative	LC50/4 h	7,426-15,800 mg/kg (rabbit)
	NOAEL	76 mg/l (rat)
	LC50/48h	22,500 mg/m ³ (rat)
		8,450 mg/l (crustaceans)
		2,262 mg/l (daphnia magna)
123-86-4 n-butyl acetate		
Oral	LD50	10,760 mg/kg (rat) (OECD 423)
Dermal	LD50	>14,112 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	23.4 mg/l (rat) (OECD 403)
	LC50	390 mg/m ³ (rat)
	LC50/48h	64 mg/l (Brachydanio rerio)
74-98-6 propane		
Inhalative	LC50/4 h	>20 mg/l (rat)
106-97-8 butane, pure		
Inhalative	LC50/4 h	658 mg/l (rat)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8,500 mg/kg (rat) (OECD 401)
	NOAEL-Werte	1,500 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
		>2,000 mg/kg (rat)
Inhalative	LC50/4h	>10,000 mg/m ³ (rat)
	LC50	>23.8 mg/l (rat)
	LC50/4 h	35.7 mg/l (rat)
	LC50/48h	100 mg/l (Desmodesmus subspicatus)
75-28-5 isobutane		
Inhalative	LC50/4 h	>50 mg/l (rat)
7779-90-0 trizinc bis(orthophosphate)		
Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>5.7 mg/l (rat)
Hydrocarbons, C10, Aromatics, < 1% naphthaline		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>4,778 mg/l (rat)
64-17-5 ethanol		
Oral	LD50	10,470 mg/kg (rat) (OECD 401)
	NOAEL-Werte	>3,000 mg/kg (rat) (OECD 451)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4h	20,000 mg/m ³ (rat)
	LC50/4 h	120 mg/l (rat) (OECD 403)
	LC50/48h	5,012 mg/l (ceriodaphnia Dubai)
		12,340 mg/l (daphnia magna)
		8,150 mg/l (Leuciscus idus)

· Skin corrosion/irritation

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

· Serious eye damage/irritation

Causes serious eye irritation.

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|--|---|
| · <u>Respiratory or skin sensitisation</u> | Based on available data, the classification criteria are not met. |
| · <u>Germ cell mutagenicity</u> | Based on available data, the classification criteria are not met. |
| · <u>Carcinogenicity</u> | Based on available data, the classification criteria are not met. |
| · <u>Reproductive toxicity</u> | Based on available data, the classification criteria are not met. |
| · <u>STOT-single exposure</u> | May cause drowsiness or dizziness. |
| · <u>STOT-repeated exposure</u> | Based on available data, the classification criteria are not met. |
| · <u>Aspiration hazard</u> | Based on available data, the classification criteria are not met. |

· **11.2 Information on other hazards**

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· Aquatic toxicity:

67-64-1 acetone

EC50/96h	7,200 mg/l (algae)
	8,300 mg/l (piscis)
	8,300 mg/l (Iepomis macrochirus)
	7,500 mg/l (Selenastrum capricornutum)
EC50	1,700 mg/l (bacteria)
LC50	6,368 mg/l (piscis)
LC50/24h	8,800 mg/l (daphnia)
EC5/16h	1,700 mg/l (Pseudomonas putida)
EC5/72h	28 mg/l (Entosiphon sulcatum)
EC5/8d	530 mg/l (microorganisms)
IC5/8d	7,500 mg/l (Scenedesmus quadricauda)
EC50/48h	3,400 mg/l (algae)
	8,800 mg/l (daphnia magna)
NOEC	1,700 mg/kg (Pseudomonas putida)
	4,740 mg/kg (Selenastrum capricornutum)
NOELR/28d	2,212 mg/l (daphnia magna)
EC50/48h	12,600 mg/l (Danio rerio.)
	8,800 mg/l (daphnia magna)
LC50/96h	8,300 mg/l (Iem)
	8,300 mg/l (Iepomis macrochirus)
	7,500 mg/l (Leuciscus idus)
	5,540 mg/l (Oncorhynchus mykiss)
	8,120 mg/l (Pimephales promelas)

123-86-4 n-butyl acetate

EC50/24h	72.8 mg/l (daphnia magna) (DIN 38412)
EC50/96h	320 mg/l (algae)
LC50/24h	205 mg/l (daphnia magna)
IC50/72h	648 mg/l (Desmodesmus subspicatus)
EC10/18h	959 mg/l (Pseudomonas putida)
EC50/48h	44 mg/l (daphnia magna) (OECD 202)
EC50/16h	959 mg/l (Pseudomonas putida)

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NOEC	200 mg/kg (Desmodesmus subspicatus)
NOEC/21d	23 mg/l (daphnia magna) (OECD 211)
EC50/72h	647.7 mg/l (Desmodesmus subspicatus) (Zellvermehrungshemmtest)
	397 mg/l (Scenedesmus subspicatus)
LC50/96h	62 mg/l (Danio rerio.)
	81 mg/l (piscis)
	100 mg/l (Iepomis macrochirus)
	62 mg/l (Leuciscus idus) (DIN 38412)
	18 mg/l (pimephales promelas) (OECD 203)

108-65-6 2-methoxy-1-methylethyl acetate

EC50	>100 mg/l (daphnia magna)
LC50	63.5 mg/l (Oryzias latipes)
EC50/48h	>500 mg/l (daphnia magna) (RL 67/548/EWG. Anhang V, C.2.)
ErC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC20/0.5h	>1,000 mg/l (BES) (OECD 209)
NOEC	47.5 mg/l (Oryzias latipes)
NOEC/21d	≥100 mg/l (daphnia magna)
EC10	>1,000 mg/l (BES)
EC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	100-180 mg/l (Oncorhynchus mykiss)
	>1,000 mg/l (Oryzias latipes)
	161 mg/l (Pimephales promelas)

7779-90-0 trizinc bis(orthophosphate)

EC50/48h	28.2 mg/l (daphnia magna)
ErC50/72h	<0.3 mg/l (Desmodesmus subspicatus)
EC50/48h	<1.7 mg/l (daphnia magna)
EC50/72h	0.28 mg/l (Selenastrum capricornutum)
LC50/96h	<5.1 mg/l (Oncorhynchus mykiss)

Hydrocarbons, C10, Aromatics, < 1% naphthalene

EC50/48h	3-10 mg/l (daphnia magna)
ErC50/72h	11 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	2-5 mg/l (Oncorhynchus mykiss)

64-17-5 ethanol

LC50/24h	11,200 mg/l (salmon)
EC50/48h	9,268-14,221 mg/l (daphnia magna)
	12,900 mg/l (Selenastrum capricornutum) (OECD 201)
EC0	6,500 mg/l (pseudomonas putida)
	5,000 mg/l (scenedesmus quadricauda)
EC10	11.5 mg/l (CHV)
EC50/72h	275 mg/l (CHV) (OECD 201)
LC50/96h	13,000 mg/l (Oncorhynchus mykiss) (OECD 203)
	15,300 mg/l (pimephales promelas)
	11,200 mg/l (salmon) (US EPA method E03-05)

· **12.2 Persistence and degradability**

No further relevant information available.

· **12.3 Bioaccumulative potential**

No further relevant information available.

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- **12.4 Mobility in soil** No further relevant information 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 adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
Harmful to aquatic organisms
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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.

· European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 04	metallic packaging
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances

- **Uncleaned packaging:**
- **Recommendation:** Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
- **ADR** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

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· 14.3 Transport hazard class(es)**· ADR****· Class**

2 5F Gases.

· Label

2.1

· IMDG, IATA**· Class**

2.1 Gases.

· Label

2.1

· 14.4 Packing group**· ADR, IMDG, IATA**

Void

· 14.5 Environmental hazards:**· Marine pollutant:**

No

· 14.6 Special precautions for user**· 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.

· 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 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.

· 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

· Transport/Additional information:**· ADR****· Limited quantities (LQ)**

1L

· Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

· Transport category

2

· Tunnel restriction code

D

· IMDG**· Limited quantities (LQ)**

1L

· Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

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· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1
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SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Directive 2012/18/EU
 - Named dangerous substances - ANNEX I
 - Seveso category
 - Qualifying quantity (tonnes) for the application of lower-tier requirements
 - Qualifying quantity (tonnes) for the application of upper-tier requirements
 - REGULATION (EC) No 1907/2006 ANNEX XVII
- | | |
|------------------------------------|------------------------|
| None of the ingredients is listed. | P3a FLAMMABLE AEROSOLS |
| 150 t | |
| 500 t | |
| Conditions of restriction: 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 ingredients is listed.
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· REGULATION (EU) 2019/1148	
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· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))	
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None of the ingredients is listed.	
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· Annex II - REPORTABLE EXPLOSIVES PRECURSORS	
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67-64-1 acetone	
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· Regulation (EC) No 273/2004 on drug precursors	
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67-64-1 acetone	3
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· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	
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67-64-1 acetone	3
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- National regulations:

- Information about limitation of use: Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning juveniles must be observed.

- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57	
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None of the ingredients is listed.	
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· VOC EU	684.9 g/l
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15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Department issuing SDS:	Laboratory
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· <u>Date of previous version:</u>	24.08.2023
· <u>Version number of previous version:</u>	4
· <u>Abbreviations and acronyms:</u>	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord relatif au transport international 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) 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 SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative ATE: Acute toxicity estimate values Flam. Gas 1A: Flammable gases – Category 1A 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 Flam. Sol. 1: Flammable solids – Category 1 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

EU