Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

GENERIC EU SDS - NO COUNTRY SPECIFIC DATA

Primer grey

Version number: 1.0 Date of compilation: 11.11.2025

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

1.1 Product identifier

Trade name	**Primer grey**
Registration number (REACH)	not relevant (mixture)
Unique formula identifier (UFI)	4W10-80QR-8005-D34D
Article number	TSP 120

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

Relevant identified uses	Industrial use Professional use
Uses advised against	Do not use for private purposes (household)

1.3 Details of the supplier of the safety data sheet

Chemicar Europe NV
Baarbeek 2
2070 Zwijndrecht
Belgium

Telephone: +32 3 234 87 80
e-mail: msds@emm.com
Website: www.finixa.com

e-mail (competent person)	msds@emm.com

1.4 Emergency telephone number

Emergency information service	+31 38 4676600 This number is only available during the following office hours: Mon-Fri 09:00 - 17:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard state-ment
2.3	aerosols	1	Aerosol 1	H222,H229
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of H-phrases: see SECTION 16

Code	Supplemental hazard information
EUH066	repeated exposure may cause skin dryness or cracking
EUH208	contains 4-morpholinecarbaldehyde. May produce an allergic reaction

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word: Danger

- pictograms

GHS02, GHS07, GHS09

- hazard statements

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

- precautionary statements

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.
P280	Wear protective gloves/protective clothing/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.
P310	Immediately call a POISON CENTER/doctor.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains 4-morpholinecarbaldehyde. May produce an allergic reaction.

- hazardous ingredients for labelling

Contains: Acetone; n-butyl acetate; 2-methoxy-1-methylethyl acetate; propan-2-ol.

Additional labelling according to Directive 75/324/EEC relating to aerosol dispensers

Extremely flammable. Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Do not spray on an open flame or other ignition source.

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
dimethyl ether	CAS No 115-10-6 EC No 204-065-8	20 – < 25	Flam. Gas 1A / H220 Press. Gas C / H280		GHS-HC IOELV U(b)

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
	Index No 603-019-00-8 REACH Reg. No 01-2119472128-37-xxxx				
Acetone	CAS No 67-64-1 EC No 200-662-2 Index No 606-001-00-8 REACH Reg. No 01-2119471330-49-xxxx	12,5 - < 20	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 EUH066		GHS-HC IOELV
n-butyl acetate	CAS No 123-86-4 EC No 204-658-1 Index No 607-025-00-1 REACH Reg. No 01-2119485493-29-xxxx	12,5 - < 20	Flam. Liq. 3 / H226 STOT SE 3 / H336 EUH066		GHS-HC IOELV
Butane	CAS No 106-97-8 EC No 203-448-7 Index No 601-004-00-0 REACH Reg. No 01-2119474691-32-xxxx	5 - < 10	Flam. Gas 1A / H220 Press. Gas C / H280		C GHS-HC U(b)
Propane	CAS No 74-98-6 EC No 200-827-9 Index No 601-003-00-5 REACH Reg. No 01-2119486944-21-xxxx	5 - < 10	Flam. Gas 1A / H220 Press. Gas C / H280		GHS-HC U(b)
Isobutane	CAS No 75-28-5 EC No 200-857-2 Index No 601-004-00-0 REACH Reg. No 01-2119485395-27-xxxx	2,5 - < 5	Flam. Gas 1A / H220 Press. Gas C / H280		C GHS-HC U(b)

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
2-methoxy-1-methyl-ethyl acetate	CAS No 108-65-6 EC No 203-603-9 Index No 607-195-00-7 REACH Reg. No 01-2119475791-29-xxxx	2,5 – < 5	Flam. Liq. 3 / H226 STOT SE 3 / H336		GHS-HC IOELV
nitrocellulose	CAS No 9004-70-0 EC No 682-719-5	2,5 – < 5	Expl. 1.1 / H201		
propan-2-ol	CAS No 67-63-0 EC No 200-661-7 Index No 603-117-00-0 REACH Reg. No 01-2119457558-25-xxxx	< 2,5	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336		GHS-HC
Trizinc bis(orthophosphate)	CAS No 7779-90-0 EC No 231-944-3 Index No 030-011-00-6 REACH Reg. No 01-2119485044-40-xxxx	≥ 0,25 – < 2,5	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		GHS-HC
n-butanol; butan-1-ol	CAS No 71-36-3 EC No 200-751-6 Index No 603-004-00-6 REACH Reg. No 01-2119484630-38-xxxx	≥ 1 – < 2,5	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335 STOT SE 3 / H336		GHS-HC
4-morpholinecarbaldehyde	CAS No 4394-85-8 EC No 224-518-3 REACH Reg. No 01-2119987993-12-xxxx	≥ 0,1 – ≤ 0,5	Skin Sens. 1B / H317		

Notes

C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)
IOELV: Substance with a community indicative occupational exposure limit value
U(b): The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged

Name of substance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
2-methoxy-1-methylethyl acetate	CAS No 108-65-6	-	-	5.000 $^{mg}/_{kg}$	dermal
n-butanol; butan-1-ol	CAS No 71-36-3	-	-	500 $^{mg}/_{kg}$	oral

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor.

Following ingestion

Rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray; Dry extinguishing powder;
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

Hazardous combustion products

During fire hazardous fumes/smoke could be produced. Carbon monoxide (CO). Carbon dioxide (CO2).

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal pre-

cautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Protect from sunlight.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Generic EU SDS - No country specific limit values mentioned.

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Notation	Source
EU	2-methoxy-1-methylethyl acetate	108-65-6	IOELV	50	275	100	550	H	2000/39/EC
EU	dimethyl ether	115-10-6	IOELV	1.000	1.920				2000/39/EC
EU	n-butyl acetate	123-86-4	IOELV	50	241	150	723		2019/1831/EU
EU	acetone	67-64-1	IOELV	500	1.210				2000/39/EC

Notation

H	absorbed through the skin
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Acetone	67-64-1	DNEL	1.210 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Acetone	67-64-1	DNEL	2.420 mg/m³	human, inhalatory	worker (industry)	acute - local effects
Acetone	67-64-1	DNEL	186 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Acetone	67-64-1	DNEL	200 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Acetone	67-64-1	DNEL	62 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Acetone	67-64-1	DNEL	62 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
n-butyl acetate	123-86-4	DNEL	300 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
n-butyl acetate	123-86-4	DNEL	600 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
n-butyl acetate	123-86-4	DNEL	300 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
n-butyl acetate	123-86-4	DNEL	600 mg/m³	human, inhalatory	worker (industry)	acute - local effects
n-butyl acetate	123-86-4	DNEL	11 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
n-butyl acetate	123-86-4	DNEL	11 mg/kg	human, dermal	worker (industry)	acute - systemic ef-

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
			bw/day			fects
n-butyl acetate	123-86-4	DNEL	35,7 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
n-butyl acetate	123-86-4	DNEL	300 mg/m³	human, inhalatory	consumer (private households)	acute - systemic effects
n-butyl acetate	123-86-4	DNEL	35,7 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
n-butyl acetate	123-86-4	DNEL	300 mg/m³	human, inhalatory	consumer (private households)	acute - local effects
n-butyl acetate	123-86-4	DNEL	6 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
n-butyl acetate	123-86-4	DNEL	6 mg/kg bw/day	human, dermal	consumer (private households)	acute - systemic effects
n-butyl acetate	123-86-4	DNEL	2 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
n-butyl acetate	123-86-4	DNEL	2 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects
2-methoxy-1-methyl-ethyl acetate	108-65-6	DNEL	275 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
2-methoxy-1-methyl-ethyl acetate	108-65-6	DNEL	550 mg/m³	human, inhalatory	worker (industry)	acute - local effects
2-methoxy-1-methyl-ethyl acetate	108-65-6	DNEL	796 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-methoxy-1-methyl-ethyl acetate	108-65-6	DNEL	33 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
2-methoxy-1-methyl-ethyl acetate	108-65-6	DNEL	33 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
2-methoxy-1-methyl-ethyl acetate	108-65-6	DNEL	320 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
2-methoxy-1-methyl-ethyl acetate	108-65-6	DNEL	36 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
2-methoxy-1-methyl-ethyl acetate	108-65-6	DNEL	500 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects
Trizinc bis(orthophosphate)	7779-90-0	DNEL	5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Trizinc bis(orthophosphate)	7779-90-0	DNEL	83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Trizinc bis(orthophosphate)	7779-90-0	DNEL	2,5 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Trizinc bis(orthophosphate)	7779-90-0	DNEL	83 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Trizinc bis(orthophosphate)	7779-90-0	DNEL	0,83 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
propan-2-ol	67-63-0	DNEL	500 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
propan-2-ol	67-63-0	DNEL	1.000 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
propan-2-ol	67-63-0	DNEL	888 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
propan-2-ol	67-63-0	DNEL	89 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
propan-2-ol	67-63-0	DNEL	178 mg/m³	human, inhalatory	consumer (private households)	acute - systemic effects
propan-2-ol	67-63-0	DNEL	319 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
propan-2-ol	67-63-0	DNEL	26 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
propan-2-ol	67-63-0	DNEL	51 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects
n-butanol; butan-1-ol	71-36-3	DNEL	310 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
n-butanol; butan-1-ol	71-36-3	DNEL	55,36 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
n-butanol; butan-1-ol	71-36-3	DNEL	155 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
n-butanol; butan-1-ol	71-36-3	DNEL	3,125 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
n-butanol; butan-1-ol	71-36-3	DNEL	1,562 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
4-morpholinecarbaldehyde	4394-85-8	DNEL	293 µg/cm²	human, dermal	worker (industry)	chronic - local effects
4-morpholinecarbaldehyde	4394-85-8	DNEL	176 µg/cm²	human, dermal	consumer (private households)	chronic - local effects
4-morpholinecarbaldehyde	4394-85-8	DNEL	50,3 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
4-morpholinecarbaldehyde	4394-85-8	DNEL	13,3 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
4-morpholinecarbaldehyde	4394-85-8	DNEL	11,7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
4-morpholinecarbaldehyde	4394-85-8	DNEL	8,93 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
4-morpholinecarbaldehyde	4394-85-8	DNEL	13,3 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
4-morpholinecarbaldehyde	4394-85-8	DNEL	4,17 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
4-morpholinecarbaldehyde	4394-85-8	DNEL	4,17 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Relevant PNECs of components

Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
dimethyl ether	115-10-6	PNEC	0,155 mg/l	aquatic organisms	freshwater	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0,016 mg/l	aquatic organisms	marine water	short-term (single instance)
dimethyl ether	115-10-6	PNEC	160 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0,681 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0,069 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0,045 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Acetone	67-64-1	PNEC	21 mg/l	aquatic organisms	water	intermittent release
Acetone	67-64-1	PNEC	10,6 mg/l	aquatic organisms	freshwater	short-term (single instance)
Acetone	67-64-1	PNEC	1,06 mg/l	aquatic organisms	marine water	short-term (single instance)
Acetone	67-64-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Acetone	67-64-1	PNEC	30,4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Acetone	67-64-1	PNEC	3,04 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Acetone	67-64-1	PNEC	29,5 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
n-butyl acetate	123-86-4	PNEC	0,18 mg/l	aquatic organisms	freshwater	short-term (single instance)
n-butyl acetate	123-86-4	PNEC	0,018 mg/l	aquatic organisms	marine water	short-term (single instance)
n-butyl acetate	123-86-4	PNEC	35,6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
n-butyl acetate	123-86-4	PNEC	0,981 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
n-butyl acetate	123-86-4	PNEC	0,098 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
n-butyl acetate	123-86-4	PNEC	0,09 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
2-methoxy-1-methyl-ethyl acetate	108-65-6	PNEC	6,35 mg/l	aquatic organisms	water	intermittent release
2-methoxy-1-methyl-ethyl acetate	108-65-6	PNEC	0,635 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-methoxy-1-methyl-ethyl acetate	108-65-6	PNEC	0,064 mg/l	aquatic organisms	marine water	short-term (single instance)
2-methoxy-1-methyl-ethyl acetate	108-65-6	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-methoxy-1-methyl-ethyl acetate	108-65-6	PNEC	3,29 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-methoxy-1-methyl-	108-65-6	PNEC	0,329 mg/kg	aquatic organisms	marine sediment	short-term (single

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
ethyl acetate						instance)
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	0,29 mg/kg	terrestrial organisms	soil	short-term (single instance)
Trizinc bis(orthophosphate)	7779-90-0	PNEC	38,8 µg/l	aquatic organisms	freshwater	short-term (single instance)
Trizinc bis(orthophosphate)	7779-90-0	PNEC	15,2 µg/l	aquatic organisms	marine water	short-term (single instance)
Trizinc bis(orthophosphate)	7779-90-0	PNEC	196,8 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Trizinc bis(orthophosphate)	7779-90-0	PNEC	289,1 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Trizinc bis(orthophosphate)	7779-90-0	PNEC	319,2 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Trizinc bis(orthophosphate)	7779-90-0	PNEC	163,6 mg/kg	terrestrial organisms	soil	short-term (single instance)
n-butanol; butan-1-ol	71-36-3	PNEC	0,082 mg/l	aquatic organisms	freshwater	short-term (single instance)
n-butanol; butan-1-ol	71-36-3	PNEC	0,008 mg/l	aquatic organisms	marine water	short-term (single instance)
n-butanol; butan-1-ol	71-36-3	PNEC	2.476 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
n-butanol; butan-1-ol	71-36-3	PNEC	0,324 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
n-butanol; butan-1-ol	71-36-3	PNEC	0,032 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
n-butanol; butan-1-ol	71-36-3	PNEC	0,017 mg/kg	terrestrial organisms	soil	short-term (single instance)
4-morpholinecarbaldehyde	4394-85-8	PNEC	3,8 mg/l	aquatic organisms	freshwater	short-term (single instance)
4-morpholinecarbaldehyde	4394-85-8	PNEC	0,38 mg/l	aquatic organisms	marine water	short-term (single instance)
4-morpholinecarbaldehyde	4394-85-8	PNEC	2.000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
4-morpholinecarbaldehyde	4394-85-8	PNEC	14,1 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
4-morpholinecarbaldehyde	4394-85-8	PNEC	1,41 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
4-morpholinecarbaldehyde	4394-85-8	PNEC	0,581 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection (EN ISO 16321).

Skin protection

Chemical protective clothing. Protective clothing (EN ISO 13688).

Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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.

- type of material

Butyl rubber

- material thickness

Use gloves with a minimum material thickness: ≥ 0,40 mm.

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

During spraying wear suitable respiratory equipment. In case of inadequate ventilation wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140). Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid, gaseous (spray aerosol)
Colour	grey
Odour	like solvents
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	-42,1 °C at 1.013 hPa calculated value, referring to a component of the mixture
Flammability	flammable aerosol in accordance with GHS criteria
Lower and upper explosion limit	LEL: 1,5 vol% / UEL: 26,2 vol% calculated value, referring to a component of the mixture
Flash point	not applicable
Auto-ignition temperature	226 °C (auto-ignition temperature (liquids and gases)) calculated value, referring to a component of the mixture
Decomposition temperature	no data available
pH (value)	not determined
Kinematic viscosity	not relevant
Solubility	not determined

Partition coefficient n-octanol/water (log value)	this information is not available

Vapour pressure	3.850 mmHg at 25 °C calculated value, referring to a component of the mixture

Density and/or relative density

Density	0,8 $^{g}/_{cm^3}$ at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (aerosol)

9.2 Other information

Information with regard to physical hazard classes	there is no additional information
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

10.5 Incompatible materials

Oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components			
Name of substance	**CAS No**	**Exposure route**	**ATE**
2-methoxy-1-methylethyl acetate	108-65-6	dermal	5.000 $^{mg}/_{kg}$
n-butanol; butan-1-ol	71-36-3	oral	500 $^{mg}/_{kg}$

Acute toxicity of components					
Name of substance	**CAS No**	**Exposure route**	**Endpoint**	**Value**	**Species**
dimethyl ether	115-10-6	inhalation: gas	LC50	164.000 ppmV/4h	rat
Acetone	67-64-1	oral	LD50	5.800 $^{mg}/_{kg}$	rat
2-methoxy-1-methylethyl acetate	108-65-6	oral	LD50	6.190 – 10.000 $^{mg}/_{kg}$	rat
2-methoxy-1-methylethyl acetate	108-65-6	dermal	LD50	>2.000 $^{mg}/_{kg}$	rat
Trizinc bis(orthophosphate)	7779-90-0	oral	LD50	>5.000 $^{mg}/_{kg}$	rat
n-butanol; butan-1-ol	71-36-3	oral	LD50	2.292 $^{mg}/_{kg}$	rat
n-butanol; butan-1-ol	71-36-3	dermal	LD50	3.430 $^{mg}/_{kg}$	rabbit
4-morpholinecarbaldehyde	4394-85-8	oral	LD50	>7.314 $^{mg}/_{kg}$	rat
4-morpholinecarbaldehyde	4394-85-8	inhalation: dust/mist	LC50	≥5,319 $^{mg}/_{l}$/4h	rat
4-morpholinecarbaldehyde	4394-85-8	dermal	LD50	>18.400 $^{mg}/_{kg}$	rabbit

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Contains 4-morpholinecarbaldehyde. May produce an allergic reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

Other information

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
dimethyl ether	115-10-6	LC50	>4,1 g/l	guppy (Poecilia reticulata)	96 h
dimethyl ether	115-10-6	EC50	>4,4 g/l	daphnia magna	48 h
dimethyl ether	115-10-6	NOEC	≥4,1 g/l	guppy (Poecilia reticulata)	96 h
Acetone	67-64-1	LC50	8.120 mg/l	fathead minnow (Pimephales promelas)	96 h
n-butyl acetate	123-86-4	ErC50	335 mg/l	algae	24 h
n-butyl acetate	123-86-4	LC50	18 mg/l	fathead minnow (Pimephales promelas)	96 h
n-butyl acetate	123-86-4	EC50	18 mg/l	fathead minnow (Pimephales promelas)	96 h
n-butyl acetate	123-86-4	NOEC	105 mg/l	algae	72 h
Propane	74-98-6	LC50	53,14 mg/l	fish	96 h
Propane	74-98-6	EC50	20,59 mg/l	algae	96 h
Butane	106-97-8	LC50	25,37 mg/l	fish	96 h
Butane	106-97-8	EC50	12,41 mg/l	algae	96 h
Isobutane	75-28-5	LC50	29,54 mg/l	fish	96 h
Isobutane	75-28-5	EC50	13,95 mg/l	algae	96 h
2-methoxy-1-methylethyl acetate	108-65-6	ErC50	>1.000 mg/l	algae	96 h
2-methoxy-1-methylethyl acetate	108-65-6	LC50	100 – 180 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h
2-methoxy-1-methylethyl acetate	108-65-6	EC50	>500 mg/l	daphnia magna	48 h
2-methoxy-1-methylethyl acetate	108-65-6	NOEC	100 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h
2-methoxy-1-methylethyl acetate	108-65-6	LOEC	>1.000 mg/l	algae	96 h
Trizinc bis(orthophosphate)	7779-90-0	ErC50	2.700 µg/l	algae	48 h
Trizinc bis(orthophosphate)	7779-90-0	LC50	315 µg/l	fish	96 h
Trizinc bis(orthophosphate)	7779-90-0	EC50	548 µg/l	daphnia magna	48 h
Trizinc bis(orthophosphate)	7779-90-0	NOEC	128 µg/l	aquatic invertebrates	48 h
Trizinc bis(orthophosphate)	7779-90-0	growth rate (ErCx) 10%	646 µg/l	algae	48 h
Trizinc bis(orthophosphate)	7779-90-0	growth (EbCx) 10%	106 µg/l	aquatic invertebrates	48 h
propan-2-ol	67-63-0	LC0	5.000 mg/l	aquatic invertebrates	24 h
propan-2-ol	67-63-0	LC50	10.000 mg/l	fathead minnow (Pimephales promelas)	96 h
n-butanol; butan-1-ol	71-36-3	ErC50	225 mg/l	algae	96 h
n-butanol; butan-1-ol	71-36-3	LC50	1.376 mg/l	fathead minnow	96 h

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
				(Pimephales promelas)	
n-butanol; butan-1-ol	71-36-3	EC50	1.328 mg/l	daphnia magna	48 h
n-butanol; butan-1-ol	71-36-3	NOAEC	129 mg/l	algae	96 h
n-butanol; butan-1-ol	71-36-3	NOEC	519 mg/l	fathead minnow (Pimephales promelas)	96 h
4-morpholinecarbaldehyde	4394-85-8	ErC50	23.880 mg/l	algae	72 h
4-morpholinecarbaldehyde	4394-85-8	LC50	>500 mg/l	orfe (Leuciscus idus)	96 h
4-morpholinecarbaldehyde	4394-85-8	EC50	>500 mg/l	daphnia magna	48 h
4-morpholinecarbaldehyde	4394-85-8	growth rate (ErCx) 10%	17.040 mg/l	algae	72 h
4-morpholinecarbaldehyde	4394-85-8	growth (EbCx) 90%	33.360 mg/l	green algae (Desmodesmus subspicatus)	72 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Acetone	67-64-1	EC50	61,15 g/l	microorganisms	30 min
Acetone	67-64-1	NOEC	2.212 mg/l	daphnia magna	28 d
Acetone	67-64-1	LOEC	2.212 mg/l	daphnia magna	28 d
Acetone	67-64-1	growth (EbCx) 12%	1.000 mg/l	microorganisms	30 min
n-butyl acetate	123-86-4	EC50	34,2 mg/l	daphnia magna	21 d
n-butyl acetate	123-86-4	LC50	43,5 mg/l	daphnia magna	21 d
n-butyl acetate	123-86-4	NOEC	23,2 mg/l	daphnia magna	21 d
n-butyl acetate	123-86-4	LOEC	47,6 mg/l	daphnia magna	21 d
Propane	74-98-6	NOEC	3,599 mg/l	fish	30 d
Butane	106-97-8	NOEC	1,813 mg/l	fish	30 d
Isobutane	75-28-5	NOEC	2,094 mg/l	fish	30 d
2-methoxy-1-methylethyl acetate	108-65-6	LC50	63,5 mg/l	japanese ricefish/medaka (Oryzias latipes)	14 d
2-methoxy-1-methylethyl acetate	108-65-6	EC50	>100 mg/l	daphnia magna	21 d
2-methoxy-1-methylethyl acetate	108-65-6	NOEC	47,5 mg/l	japanese ricefish/medaka (Oryzias latipes)	14 d
2-methoxy-1-methylethyl acetate	108-65-6	growth (EbCx) 10%	>1.000 mg/l	microorganisms	30 min
Trizinc bis(orthophosphate)	7779-90-0	EbC50	6.813 µg/l	aquatic invertebrates	21 d
Trizinc bis(orthophosphate)	7779-90-0	ErC50	410 µg/l	algae	10 d
Trizinc bis(orthophosphate)	7779-90-0	LC50	330 µg/l	fathead minnow (Pimephales promelas)	95 h
Trizinc bis(orthophosphate)	7779-90-0	EC50	817 µg/l	fish	75 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	**CAS No**	**Endpoint**	**Value**	**Species**	**Exposure time**
Trizinc bis(orthophosphate)	7779-90-0	NOEC	36 µg/l	rainbow trout (Oncorhynchus mykiss)	25 d
Trizinc bis(orthophosphate)	7779-90-0	LOEC	51 µg/l	fish	30 d
Trizinc bis(orthophosphate)	7779-90-0	growth (EbCx) 10%	259 µg/l	rainbow trout (Oncorhynchus mykiss)	30 d
propan-2-ol	67-63-0	LC50	>10.000 mg/l	aquatic invertebrates	24 h
propan-2-ol	67-63-0	NOELR	>1.000 mg/l	zebra fish (Danio rerio)	28 d
n-butanol; butan-1-ol	71-36-3	EC50	18 mg/l	daphnia magna	21 d
n-butanol; butan-1-ol	71-36-3	NOEC	4,1 mg/l	daphnia magna	21 d
n-butanol; butan-1-ol	71-36-3	growth (EbCx) 10%	2.476 mg/l	soil microorganisms	17 h
4-morpholinecarbaldehyde	4394-85-8	NOEC	38 mg/l	aquatic invertebrates	21 d
4-morpholinecarbaldehyde	4394-85-8	growth (EbCx) 10%	1.600 mg/l	fish	32 d

12.2 Persistence and degradability

Degradability of components					
Name of substance	**CAS No**	**Process**	**Degradation rate**	**Time**	**Method**
dimethyl ether	115-10-6	oxygen depletion	5 %	28 d	
Acetone	67-64-1	carbon dioxide generation	90,9 %	28 d	
n-butyl acetate	123-86-4	oxygen depletion	80 %	5 d	
2-methoxy-1-methylethyl acetate	108-65-6	carbon dioxide generation	90 %	28 d	
2-methoxy-1-methylethyl acetate	108-65-6	oxygen depletion	60 %	5,9 d	
2-methoxy-1-methylethyl acetate	108-65-6	DOC removal	99 %	28 d	
propan-2-ol	67-63-0	oxygen depletion	53 %	5 d	
n-butanol; butan-1-ol	71-36-3	oxygen depletion	68 %	5 d	
4-morpholinecarbaldehyde	4394-85-8	DOC removal	100 %	28 d	

12.3 Bioaccumulative potential

Bioaccumulative potential of components				
Name of substance	**CAS No**	**BCF**	**Log KOW**	**BOD5/COD**
dimethyl ether	115-10-6		0,07 (25 °C)	
Acetone	67-64-1		-0,23	
n-butyl acetate	123-86-4		2,3 (25 °C)	
Propane	74-98-6		2,36 (20 °C)	
Butane	106-97-8		2,89 (20 °C)	
Isobutane	75-28-5		2,76 (20 °C)	

Bioaccumulative potential of components				
Name of substance	**CAS No**	**BCF**	**Log KOW**	**BOD5/COD**
2-methoxy-1-methylethyl acetate	108-65-6		1,2 (20 °C)	
Trizinc bis(orthophosphate)	7779-90-0	69,48		
propan-2-ol	67-63-0		0,05 (25 °C)	
n-butanol; butan-1-ol	71-36-3		1 (25 °C)	
4-morpholinecarbaldehyde	4394-85-8	<1,9	-1,2 (23 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes, Decision 2000/532/EC on the list of waste

- product
  08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

- packagings
  15 01 04 metallic packaging
  15 01 10* packaging containing residues of or contaminated by hazardous substances

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN	UN 1950
IMDG-Code	UN 1950
ICAO-TI	UN 1950

14.2 UN proper shipping name

ADR/RID/ADN	AEROSOLS flammable
IMDG-Code	AEROSOLS

ICAO-TI	Aerosols, flammable

14.3 Transport hazard class(es)

ADR/RID/ADN	2 (2.1)
IMDG-Code	2.1
ICAO-TI	2.1

14.4 Packing group

not assigned

14.5 Environmental hazards

hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment)	Trizinc bis(orthophosphate)

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

No data available.

Additional information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Classification code	5F
Danger label(s)	2.1

Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D

International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant	yes (hazardous to the aquatic environment)
Danger label(s)	2.1

Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
EmS	F-D, S-U
Stowage category	-

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	2.1

Special provisions (SP)	A145, A167
Excepted quantities (EQ)	E0
Limited quantities (LQ)	30 kg

SECTION 15: Regulatory information

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

This Safety Data Sheet is purely informative and does comply with EU regulations, but not with country-specific regulations.

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Name	Name acc. to inventory	Restriction	No
Butane	flammable / pyrophoric	R40	40
Isobutane	flammable / pyrophoric	R40	40
Propane	flammable / pyrophoric	R40	40
Acetone	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
Acetone	flammable / pyrophoric	R40	40
Acetone	substances in tattoo inks and permanent make-up	R75	75
propan-2-ol	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
propan-2-ol	flammable / pyrophoric	R40	40
propan-2-ol	substances in tattoo inks and permanent make-up	R75	75
2-methoxy-1-methylethyl acetate	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
2-methoxy-1-methylethyl acetate	flammable / pyrophoric	R40	40
n-butanol; butan-1-ol	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
n-butanol; butan-1-ol	flammable / pyrophoric	R40	40
n-butanol; butan-1-ol	substances in tattoo inks and permanent make-up	R75	75
dimethyl ether	flammable / pyrophoric	R40	40
n-butyl acetate	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
n-butyl acetate	flammable / pyrophoric	R40	40

Legend

R3 1. Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ash-trays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

Legend

2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
— can be used as fuel in decorative oil lamps for supply to the general public, and
— present an aspiration hazard and are labelled with H304.
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: “Keep lamps filled with this liquid out of the reach of children”; and, by 1 December 2010, “Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage”;
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: ‘Just a sip of grill lighter fluid may lead to life threatening lung damage’;
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.’;

R40 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- ‘whoopee’ cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.
2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
‘For professional users only’.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

R75 1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
(i) 0,1 % by weight, if the substance is used solely as a pH regulator;
(ii) 0,01 % by weight, in all other cases;
(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
(f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
(i) “Rinse-off products”;
(ii) “Not to be used in products applied on mucous membranes”;
(iii) “Not to be used in eye products”;
(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
(h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
2. For the purposes of this entry use of a mixture “for tattooing purposes” means injection or introduction of the mixture into a person’s skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
(b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different

Legend

one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
(a) the statement “Mixture for use in tattoos or permanent make-up”;
(b) a reference number to uniquely identify the batch;
(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. “Ingredient” means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
(d) the additional statement “pH regulator” for substances falling under point (d)(i) of paragraph 1;
(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;
(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.
The information shall be clearly visible, easily legible and marked in a way that is indelible.
The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.
Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.
Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.
8. Mixtures that do not contain the statement “Mixture for use in tattoos or permanent make-up” shall not be used for tattooing purposes.
9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).
10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

2012/18/EU (Seveso III)

No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
P3a	flammable aerosols (containing Flam. Gas or Flam. Liq., cat. 1)	150	500	46)

Notation

46) ‘flammable’ aerosols category 1 or 2, containing flammable gases category 1 or 2 or flammable liquids category 1
Note: qualifying quantity = net

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	76,81 %

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Acetone	Substances and preparations, or the breakdown products of such, which have been proved to possess carci-		a)	

List of pollutants (WFD)				
Name of substance	**Name acc. to inventory**	**CAS No**	**Listed in**	**Remarks**
	nogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment			
propan-2-ol	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		a)	
Trizinc bis(orthophosphate)	Substances which contribute to eutrophication (in particular, nitrates and phosphates)		a)	
Trizinc bis(orthophosphate)	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		a)	
Trizinc bis(orthophosphate)	Metals and their compounds		a)	

Legend

a) Indicative list of the main pollutants

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

Explosives precursors which are subject to restrictions					
Name acc. to inventory	**CAS No**	**Type of registration**	**Remarks**	**Limit value**	**Upper limit value for the purpose of licensing under Article 5(3)**
acetone	67-64-1	Annex II			

Legend

Annex II Substances on their own or in mixtures or in substances for which suspicious transactions shall be reported

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
2019/1831/EU	Commission Directive establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Expl.	Explosive material
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association

Abbr.	Descriptions of used abbreviations
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOAEC	No Observed Adverse Effect Concentration
NOEC	No Observed Effect Concentration
NOELR	No Observed Effect Loading Rate
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Press. Gas	Gas under pressure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
Unst. Expl.	Unstable explosive material
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H201	Explosive; mass explosion hazard.
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.