



SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture Zinc Primer

Registration number -

Synonyms None.

Product code BDS000189AE

Issue date 04-March-2022

Version number 01

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

Identified uses Paints

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company name CRC Industries Europe bv

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9240 Zele
Belgium

Telephone +32(0)52/45.60.11

Fax +32(0)52/45.00.34

E-mail hse@crcind.com

Website www.crcind.com

1.4. Emergency telephone number Tel.: +32(0)52/45.60.11 (office hours: 9-17h CET)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Aerosols	Category 1	H222 - Extremely flammable aerosol. H229 - Pressurized container: May burst if heated.
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Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms



Signal word Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

Not assigned.

Storage

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
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Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Supplemental label information

VOC content declaration according to directive 2004/42/EC:
Subcategory: Special Finishes, Coating: All types. Max. allowed content g/l = 840.

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Dimethyl ether	30 - 60	115-10-6 204-065-8	01-2119472128-37	603-019-00-8	#
Classification: Press. Gas;H280					
4-methylpentan-2-one; isobutyl methyl ketone	5 - 10	108-10-1 203-550-1	01-2119473980-30	606-004-00-4	#
Classification: Flam. Liq. 2;H225, Acute Tox. 4;H332, Eye Irrit. 2;H319, STOT SE 3;H335					
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER	1 - 5	107-98-2 203-539-1	01-2119457435-35	603-064-00-3	#
Classification: Flam. Liq. 3;H226, STOT SE 3;H336					
Ethylbenzene	1 - 5	100-41-4 202-849-4	01-2119489370-35	601-023-00-4	#
Classification: Flam. Liq. 2;H225, Acute Tox. 4;H332, STOT RE 2;H373, Asp. Tox. 1;H304, Aquatic Chronic 3;H412					
trizinc bis(orthophosphate)	<2.5	7779-90-0 231-944-3	01-2119485044-40	030-011-00-6	
Classification: Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Fatty acids, C6-19-branched, zinc salts	<1	68551-44-0 271-378-4	01-2119980048-32	-	
Classification: Aquatic Chronic 2;H411					
Xylene	<12,5	1330-20-7 215-535-7	01-2119488216-32	601-022-00-9	#
Classification: Flam. Liq. 3;H226, Acute Tox. 4;H312, Acute Tox. 4;H332, Skin Irrit. 2;H315					
Zinc oxide	<0,25	1314-13-2 215-222-5	01-2119463881-32	030-013-00-7	#
Classification: Aquatic Acute 1;H400, Aquatic Chronic 1;H410					

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.
M: M-factor
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
#: This substance has been assigned Union workplace exposure limit(s).

Composition comments

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
4.1. Description of first aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.
4.2. Most important symptoms and effects, both acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	Extremely flammable aerosol.
5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Special fire fighting procedures	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.
For emergency responders	Keep unnecessary personnel away. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Prevent product from entering drains. Large Spills: Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	560 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)		100 ppm	
	STEL	416 mg/m3	
		100 ppm	
	TWA	208 mg/m3	
		50 ppm	
	STEL	958 mg/m3	
Dimethyl ether (CAS 115-10-6)		500 ppm	
	TWA	766 mg/m3	
		400 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	552 mg/m3	
		125 ppm	
	TWA	441 mg/m3	
		100 ppm	
	TWA	1 mg/m3	Respirable dust.
	TWA	4 mg/m3	Respirable.
Talc (CAS 14807-96-6) titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)		10 mg/m3	Inhalable
	STEL	441 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)		220 mg/m3	
	TWA	50 ppm	
		4 mg/m3	Respirable dust.
Zinc oxide (CAS 1314-13-2)		10 mg/m3	Inhalable dust.
	TWA		

Biological limit values**UK. EH40 Biological Monitoring Guidance Values (BMGVs)**

Components	Value	Determinant	Specimen	Sampling Time
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	20 umol/l	4-Methylpentan-2-one	Urine	*
Xylene (CAS 1330-20-7)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*

* - For sampling details, please see the source document.

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs)**General Population**

Components	Value	Assessment factor	Notes
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)			
Long-term, Systemic, Dermal	78 mg/kg bw/day	16.8	Repeated dose toxicity
Long-term, Systemic, Inhalation	43.9 mg/m3		Repeated dose toxicity
Long-term, Systemic, Oral	33 mg/kg bw/day	28	Repeated dose toxicity
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)			
Long-term, Local, Inhalation	14.7 mg/m3		
Short-term, Local, Inhalation	155.2 mg/m3		
Dimethyl ether (CAS 115-10-6)			
Long-term, Systemic, Inhalation	471 mg/m3	25	Repeated dose toxicity
Ethylbenzene (CAS 100-41-4)			
Long-term, Systemic, Inhalation	15 mg/m3	5	Repeated dose toxicity
Long-term, Systemic, Oral	1.6 mg/kg bw/day	40	Repeated dose toxicity
Fatty acids, C6-19-branched, zinc salts (CAS 68551-44-0)			
Long-term, Systemic, Dermal	83 mg/kg	1	Repeated dose toxicity
Long-term, Systemic, Inhalation	2.5 mg/m3	1	Repeated dose toxicity
Xylene (CAS 1330-20-7)			
Long-term, Local, Inhalation	65.3 mg/m3	1.7	irritation respiratory tract
Long-term, Systemic, Dermal	125 mg/kg bw/day	1.7	Neurotoxicity
Short-term, Local, Inhalation	260 mg/m3	1.7	Neurotoxicity

Workers

Components	Value	Assessment factor	Notes
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)			
Long-term, Systemic, Dermal	183 mg/kg bw/day	10.08	Repeated dose toxicity
Long-term, Systemic, Inhalation	369 mg/m3		Repeated dose toxicity
Short-term, Local, Inhalation	553.5 mg/m3		Neurotoxicity
Short-term, Systemic, Inhalation	553.5 mg/m3		Neurotoxicity
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)			
Long-term, Local, Inhalation	83 mg/m3		
Short-term, Local, Inhalation	208 mg/m3		
Dimethyl ether (CAS 115-10-6)			
Long-term, Systemic, Inhalation	1894 mg/m3	12.5	Repeated dose toxicity
Ethylbenzene (CAS 100-41-4)			
Long-term, Systemic, Dermal	180 mg/kg bw/day	12	Repeated dose toxicity
Long-term, Systemic, Inhalation	77 mg/m3	3	Repeated dose toxicity
Short-term, Local, Inhalation	293 mg/m3	3	irritation respiratory tract
Fatty acids, C6-19-branched, zinc salts (CAS 68551-44-0)			
Long-term, Systemic, Dermal	83 mg/kg	1	Repeated dose toxicity
Long-term, Systemic, Inhalation	5 mg/m3	1	Repeated dose toxicity
Xylene (CAS 1330-20-7)			
Long-term, Local, Inhalation	221 mg/m3	1	irritation respiratory tract
Long-term, Systemic, Dermal	212 mg/kg bw/day	1	Neurotoxicity
Long-term, Systemic, Inhalation	221 mg/m3	1	Neurotoxicity

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)			
Freshwater	10 mg/l	100	
Sediment (freshwater)	52.3 mg/kg		

Soil	4.59 mg/kg		
STP	100 mg/l	10	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)			
Freshwater	0.6 mg/l	50	
Sediment (freshwater)	8.27 mg/kg		
Soil	1.3 mg/kg		
Dimethyl ether (CAS 115-10-6)			
Freshwater	0.155 mg/l	1000	
Sediment (freshwater)	0.681 mg/kg		
Soil	0.045 mg/kg		
STP	160 mg/l	10	
Ethylbenzene (CAS 100-41-4)			
Freshwater	0.1 mg/l		
Secondary poisoning	0.02 g/kg		Oral
Sediment (freshwater)	13.7 mg/kg		
Soil	2.68 mg/kg		
STP	9.6 mg/l	10	
Fatty acids, C6-19-branched, zinc salts (CAS 68551-44-0)			
Freshwater	20.6 µg/l	1	
Secondary poisoning	0.017 g/kg	90	Oral
Sediment (freshwater)	117.8 mg/kg	1	
Soil	35.6 mg/kg	1	
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)			
Freshwater	0.184 mg/l	10	
Sediment (freshwater)	1000 mg/kg	100	
Soil	100 mg/kg	10	
STP	100 mg/l	10	
Xylene (CAS 1330-20-7)			
Freshwater	0.327 mg/l	1	
Sediment (freshwater)	12.46 mg/kg	1	
Soil	2.31 mg/kg	1	
STP	6.58 mg/l	1	

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.
Skin protection	
- Hand protection	When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Full contact: Glove material: nitrile. Use gloves with breakthrough time of 480 minutes. Minimum glove thickness 0.38 mm.
- Other	Wear appropriate chemical resistant clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapour cartridge. (Filter type AX)
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Aerosol.
Colour	See color cap.
Odour	Characteristic odor.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	-95 °C (-139 °F) estimated
Initial boiling point and boiling range	116.5 °C (241.7 °F) estimated
Flash point	15.0 °C (59.0 °F) Closed cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	1.2 % estimated
Flammability limit - upper (%)	12 % estimated
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.08 g/cm ³ at 20°C
Solubility(ies)	
Solubility (water)	Insoluble in water
Auto-ignition temperature	> 200 °C (> 392 °F)
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	
Heat of combustion	22.03 kJ/g estimated
VOC	618 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid high temperatures.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	Carbon oxides.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Inhalation	Prolonged inhalation may be harmful.
Eye contact	Causes serious eye irritation.
Skin contact	Causes skin irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
11.1. Information on toxicological effects	
Acute toxicity	Based on available data, the classification criteria are not met.

Product	Species	Test Results
Zinc Primer		
<u>Acute</u>		
Dermal		
ATEmix		4898.69 mg/kg
Components	Species	Test Results
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	13 g/kg
Inhalation		
LC50	Rat	54.6 mg/l, 4 Hours
Oral		
LD50	Rat	5.71 g/kg
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 16000 mg/kg
Inhalation		
LC50	Rat	11 mg/l/4h
Oral		
LD50	Rat	2080 mg/kg
Dimethyl ether (CAS 115-10-6)		
<u>Acute</u>		
Inhalation		
LC50	Rat	308.5 mg/l, 4 Hours
Ethylbenzene (CAS 100-41-4)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	17800 mg/kg
Inhalation		
LC50	Rat	17.2 mg/l/4h
Oral		
LD50	Rat	3500 mg/kg
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	10000 mg/kg
Inhalation		
LC50		> 5 mg/l
Oral		
LD50	Rat	10000 mg/kg
Xylene (CAS 1330-20-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	12126 mg/kg
Inhalation		
LC50	Rat	27124 mg/m³
Oral		
LD50	Rat	3523 mg/kg
Zinc oxide (CAS 1314-13-2)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/l

Components	Species	Test Results
Inhalation		
LC50	Mammal	2500 mg/m ³
Oral		
LD50	Mouse	7950 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitisation	Based on available data, the classification criteria are not met.	
Skin sensitisation	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met.	
Reproductive toxicity	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.	
Aspiration hazard	Not likely, due to the form of the product.	
Mixture versus substance information	Not available.	

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects.

Components	Species		Test Results
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)			
Aquatic			
Acute			
Algae	EC50	Algae	> 1000 mg/l, 72 h
Crustacea	EC50	Daphnia	> 1000 mg/l, 48 h
Fish	LC50	Oncorhynchus mykiss	> 1000 mg/l, 96 h
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)			
Aquatic			
Acute			
Algae	EC50	Algae	980 mg/l, 48 h
Crustacea	EC50	Water flea (Daphnia magna)	3682 mg/l, 24 hours
Fish	LC50	Carp (Leuciscus idus melanotus)	672 mg/l, 48 hours
Dimethyl ether (CAS 115-10-6)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia	4.4 mg/l
Fish	LC50	Fish	4.1 mg/l
Ethylbenzene (CAS 100-41-4)			
Aquatic			
Acute			
Algae	EC50	Algae	63 mg/l, 3 h
Crustacea	EC50	Crustacea	75 mg/l, 48 h
Fish	LC50	Fish	42.3 mg/l, 96 h
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours

Components	Species		Test Results
Zinc oxide (CAS 1314-13-2)			
Acute	EC50	Selenastrum capricornutum (new name Pseudokirchnerella subca	0.137 mg/l, 72 hours
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	0.413 mg/l, 48 hours
Chronic			
Crustacea	NOEC	Daphnia magna	82 µg/l, 7 days
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
12.3. Bioaccumulative potential			
Partition coefficient			
n-octanol/water (log Kow)			
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL	-0.49		
METHYL ETHER			
4-methylpentan-2-one; isobutyl methyl ketone	1.31		
Dimethyl ether	0.1		
Ethylbenzene	3.15		
12.4. Mobility in soil	No data available.		
12.5. Results of PBT and vPvB assessment	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.		
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. GWP: 1		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN1950
14.2. UN proper shipping name	AEROSOLS, flammable
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Hazard No. (ADR)	Not available.
Tunnel restriction code	D
14.4. Packing group	Not applicable
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not available.

RID

14.1. UN number	UN1950
14.2. UN proper shipping name	AEROSOLS, flammable

14.3. Transport hazard class(es)

Class 2.1
Subsidiary risk -
Label(s) 2.1

14.4. Packing group Not available.

14.5. Environmental hazards No.

14.6. Special precautions Not available.
for user

ADN

14.1. UN number UN1950

14.2. UN proper shipping name AEROSOLS, flammable

14.3. Transport hazard class(es)

Class 2.1
Subsidiary risk -
Label(s) 2.1

14.4. Packing group Not available.

14.5. Environmental hazards No.

14.6. Special precautions Not available.
for user

IATA

14.1. UN number UN1950

14.2. UN proper shipping name Aerosols, flammable

14.3. Transport hazard class(es)

Class 2.1
Subsidiary risk -

14.4. Packing group NA

14.5. Environmental hazards No.

ERG Code 10L

14.6. Special precautions Not available.
for user

Other information

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN1950

14.2. UN proper shipping name Aerosols, flammable

14.3. Transport hazard class(es)

Class 2.1
Subsidiary risk -

14.4. Packing group NA

14.5. Environmental hazards

Marine pollutant No.

EmS F-D, S-U

14.6. Special precautions Not available.
for user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

ADN; ADR; IATA; IMDG; RID



SECTION 15: Regulatory information

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

Retained direct EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Fatty acids, C6-19-branched, zinc salts (CAS 68551-44-0)

trizinc bis(orthophosphate) (CAS 7779-90-0)

Zinc oxide (CAS 1314-13-2)

Ethylbenzene (CAS 100-41-4)

Xylene (CAS 1330-20-7)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Dimethyl ether (CAS 115-10-6)

Ethylbenzene (CAS 100-41-4)

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (CAS 13463-67-7)

Xylene (CAS 1330-20-7)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)

Dimethyl ether (CAS 115-10-6)

Ethylbenzene (CAS 100-41-4)

trizinc bis(orthophosphate) (CAS 7779-90-0)

Xylene (CAS 1330-20-7)

Zinc oxide (CAS 1314-13-2)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

CAS: Chemical Abstract Service.

Ceiling: Short Term Exposure Limit Ceiling value.

CEN: European Committee for Standardization.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

GWP: Global Warming Potential.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.
 MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).
 MARPOL: International Convention for the Prevention of Pollution from Ships.
 PBT: Persistent, bioaccumulative and toxic.
 REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation, Authorization and Restriction of Chemicals).
 RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
 STEL: Short term exposure limit.
 TLV: Threshold Limit Value.
 TWA: Time Weighted Average.
 VOC: Volatile organic compounds.
 vPvB: Very persistent and very bioaccumulative.
 STEL: Short-term Exposure Limit.

References

Not available.

Information on evaluation method leading to the classification of mixture

Not available.

Full text of any H-statements not written out in full under Sections 2 to 15

H220 Extremely flammable gas.
 H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H280 Contains gas under pressure; may explode if heated.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 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.
 H412 Harmful to aquatic life with long lasting effects.

Revision information

None.

Training information

Not available.

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