PROPSPEED ETCHING PRIMER BASE

Safety Data Sheet
According to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) No. 2020/878)

Date of revision 2024-03-15, Version 8
Language EN
GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA

Section 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Propspeed Etching Primer Base
Catalog No. Component in Propspeed kits: PSLKIT, PSMKIT, PSSKIT, PSCKIT, 782A(1L), RPS500 (500ml), RPS200 (200mL),and Etching Hardener kit (782BC), EPKIT.

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

Identified uses Metal primer base (marine industry, Part A).

Professional Use.

Uses advised against No data available.

1.3 Details of the supplier of the Safety Data Sheet

Supplier
Propspeed International Ltd
PO Box 83232
Edmonton
Auckland
New Zealand
www.propspeed.com

Telephone +64 9 524 1470
Telefax +64 9 813 5246

E-mail (competent person) info@propspeed.com

1.4 Emergency telephone number

Emergency number + 33 (0)1 45 42 59 59
(Centre AntiPoison et de ToxicoVigilance, France)
(24 hrs/d – 365 d/year)

Section 2 - Hazards identification

2.1 Classification of the substance or mixture

Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Hazards identifications

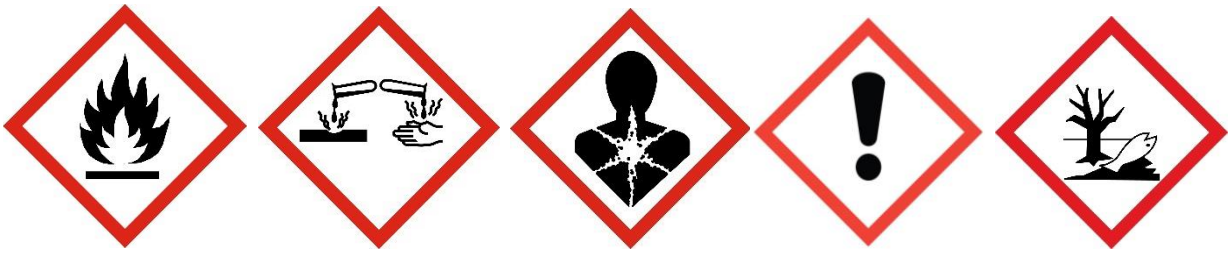
Hazard class	Hazard category	H-Code
Flammable liquids	Flam. Liq. 2	H225
Skin Irritation	Skin Irrit. 2	H315
Sensitization, Skin	Skin Sens. 1	H317
Serious eye damage/eye irritation	Eye Dam. 1	H318
Specific target organ toxicity, single exposure; Respiratory tract irritation	STOT SE 3	H335
Specific target organ toxicity, single exposure; Narcotic effects	STOT SE 3 H336	H336
Carcinogenicity	Carc. 1A	H350
Specific target organ toxicity, repeated exposure	STOT RE 2	H373
Hazardous to the aquatic environment, acute hazard	Aq. Acute 1	H400
Hazardous to the aquatic environment, long-term hazard	Aq. Chronic 2.	H411

2.2 Label elements

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

UFI: 5H80-V0QQ-S000-5FT3

Hazard pictograms:



Signal word: Danger
Hazard statements:
[H-Code: Hazard information]
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H350 May cause cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects

Precautionary statements:
[P-Code: Safety information]
General
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
Prevention
P201 Obtain special instructions before use.
P260 Do not breathe dust/fume/spray.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/fume/spray.
P273 Avoid release to the environment.
P233 Keep container tightly closed.
P202 Do not handle until all safety precautions have been read and understood.
P272 Contaminated work clothing should not be allowed out of the workplace.
P271 Use only outdoors or in a well-ventilated area.
P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P240 Ground and bond container and receiving equipment.
P264 Wash hands thoroughly after handling.
P243 Take precautionary measures against static discharge.
P242 Use only non-sparking tools.
Response
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or a doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P331 Do NOT induce vomiting.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P312 Call a POISON CENTER or doctor if you feel unwell.
P391 Collect spillage.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
Disposal

P501: Dispose of contents/container to an approved waste disposal plant.
Contains
Propan-2-ol, 2-methylpropan-1-ol, xylene, zinc chromate

Reduced Labelling (<= 125 ml) according to Regulation (EC) No. 1272/2008

Pictograms 
Signal Word Danger
Hazard Statements
H225: Highly flammable liquid and vapour.
H350: May cause cancer.
H373: May cause damage to organs through prolonged or repeated exposure.
H318: Causes serious eye damage.
H315: Causes skin irritation.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 3 - Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Description of the mixture
Wash primer base for application on metallic substrate.

Hazardous ingredients

Substance	CAS No.	EC No.	Concentration %	Classification according to Regulation (EC) No. 1272/2008	
Propan-2-ol Index REACh No. 603-117-00-0	67-63-0	200-661-7	40 – 50 %	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336
2-methylpropan-1-ol Index REACh No. 603-108-00-1	78-83-1	201-148-0	20 - 30 %	Flam. Liq 3 Eye Dam. 1 Skin Irrit. 2 STOT SE 3 STOT SE 3	H226 H318 H315 H335 H336
Xylene Index REACh No. 601-022-00-9	1330-20-7	215-535-7	5 - 10%	Flam. Liq 3 Asp. Tox. 1 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Acute Tox. 4 STOT SE 3 H335 STOT RE 2	H226 H304 H312 H315 H319 H332 H335 H373
Zinc hydroxide	20427-58-1	243-814-3	5 - 10%	Aquatic Acute 1 Aquatic Chronic 2	H400 H411
Zinc Chromate Index REACh No. 024-007-00-3	13530-65-9	236-878-9	1 - 5%	Acute Tox. 4 ORAL Skin Sens. 1 Carc. 1A Aquatic Acute 1 Aquatic Chronic 1	H302 H317 H350 H400 H410

Section 4 - First aid measures

4.1 Description of first aid measures

[illegible] [illegible]

[illegible] [illegible]

[illegible] [illegible]

[illegible] [illegible]

ĈųČŰşŸÚų ẼÚŹ ÉŞÀÚÂŘÉÂŲÄÚÄŰÂŞVÄŞŽŲÂŸÚÚŘÂŞŘÄÚÄŘÂŽÂŞÂŘÉÄVŘÉŽ ŬÉŹ ŲÉÄŘŞÚŸÚ ŲÉÄ ÚÄÚŞŘŰVŽŮğČÚŘ Ź ÚŲVŬŞŸ ŞŘŘÚŽŘVÉŽ VŲŽÚÚŲÚŲğ

4.2 Most important symptoms and effects, both acute and delayed

Additional important symptoms and effects, beyond those mentioned under '4.1 Description of first aid measures' (above) and '4.3 Indication of immediate medical attention and special treatment needed' (below), can be found in Section 11 of the Safety Data Sheet (SDS): Toxicology Information.

Chronic: May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

Section 5 – Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
Extinguish Carbon dioxide or dry powder.
Remove safely flammable containers from danger zone. Use water spray to cool closed containers exposed to fire. Adapt firefighting measures to the fire surroundings.

Unsuitable extinguishing media:
Strong water jet: may disperse and spread fire.

5.2 Special hazards arising from the substance or mixture

Flammable liquid.
Vapours are heavier than air and may spread along floors. Vapours may move towards ignition source and cause flashback/reignition. Beware of flashback.
Vapours can form explosive mixtures with air at ambient temperatures. Development of hazardous combustion gases or vapours is possible in the event of fire.

Carbon oxides may be liberated on case of fire: carbon monoxide (CO), carbon dioxide (CO_2) and peroxides. May form chromium oxide and zinc oxide if burning.
Containers may explode when heated.
Thermal decomposition can lead to release of irritating, corrosive and toxic gases/vapours.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and appropriate protective equipment.
Fight fire with normal precautions from a reasonable distance. Avoid contact with skin.

Follow the general fire precautions indicated in the workplace. When possible, move containers from danger zone and cool with water. Prevent fire extinguishing water from contaminating drains and surface water.

Section 6 - Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid any exposure. Do not smoke, use open fire or other sources of ignition. For personal protection, see section 8. Follow precautions for safe handling describedin this safety data sheet. Especially:

- Provide adequate ventilation.
- Do NOT touch the product and avoid contact with skin, eyes and clothing.
- Do NOT breathe vapors, spray and fumes.
- Remove all sources of ignition and take precautionary measures against static discharges.

6.2 Environmental precautions

Do not allow to enter drains, surface and ground water.

If drain contamination occurs, notify local authorities.

6.3 Methods and material for containment and cleaning up

Pump off or soak up spillage with absorbent inert materials (sand, ground, etc.). Do NOT use sawdust or other flammable material. Observe possible material restrictions (see section 7 and 10).

Use non-sparkling tool and explosion-proof equipment. Prevent further spillage if safe to do so. Keep spillage away from drains, waters, basements and enclosed spaces. Place in metallic/ plastic container with tight-fitting lid for disposal, with indication of the content. Dispose of as special waste in compliance with local and national regulations. Ventilate and clean affected area. Disposal considerations: see section 13.

6.4 Reference to other sections

Incompatible materials: see section 7 and 10.

Personal protective equipment: see section 8.

Disposal considerations: see section 13.

Section 7 - Handling and storage

7.1 Precautions for safe handling

- Keep out of reach of children.
- Read label before use.
- Read safety data sheet before use.
- Do not handle until all safety precautions have been read and understood.

- Keep away from heat, sparks, open flames and hot surfaces. No smoking.
- Keep container tightly closed.
- Use only non-sparking tools.
- Use explosion proof electrical equipment, ventilation and lighting.
- Take precautionary measures against static discharge.
- Avoid breathing fumes and vapors or sprays.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing and protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

- Keep out of reach of children.
- Keep/store only in original container.
- Store containers in a flameproof, non-smoking area.
- Store in a dry, cool and well-ventilated place.
- Keep away from water and moisture.
- Keep containers tightly closed.
- Keep away from heat, sparks, open flames, hot surfaces and any source of ignition.
- Protect containers from physical damage and inspect regularly for deficiencies or leaks.
- Protect from sunlight.
- Do NOT store with oxidizing agents. Store away from incompatible materials as detailed in section 10.
- Store locked-up, in an area accessible only to trained and authorized personnel.
- Ground/bond container and receiving equipment.
- Vapours can form explosive mixtures with air.
- Have appropriate equipment to clean spillage and fire extinguishers near the storage area.
- Recommended storage temperature: < 25 °C

7.3 Specific end use(s)

No specific use provided except for that mentioned in section 1.2.

Section 8 - Exposure controls/personal protection

8.1 Control parameters

8.1.1 Operational Exposure Limits (OEL)

Ingredient	(EU) 2017/2398		France		Spain	
	TWA	STEL	TWA	STEL	TWA	STEL

Propan-2-ol	-	-	-	980mg/m^3, 400 ppm	500mg/m^3	1000mg/m^3
2-methylpropan-1-ol	-	-	150mg/m^3, 50 ppm	-	154mg/m3	-
Xylene	221 mg/m^3, 50ppm	442mg/m^3, 100ppm	221mg/m^3, 50ppm	442mg/m^3, 100ppm	221mg/m3, 50ppm	442mg/m3, 100ppm
Zinc hydroxide	-	-	-	-	-	-
Zinc Chromate	-	0.005 mg/m^3	0.005mg/m^3	-	0.01mg/m^3	-

Ingredient	**Italy**		**Netherlands**		**Greece**		**Croatia**	
	TWA	**STEL**	**TWA**	**STEL**	**TWA**	**STEL**	**TWA**	**STEL**
Propan-2-ol	-	-	-	-	-	-	999mg/m^3, 400ppm	1250mg/m^3, 500ppm
2-methylpropan-1-ol	-	-	-	-	-	-	154mg/m^3, 50ppm	231mg/m^3, 75ppm
Xylene	221mg/m^3, 50ppm	442mg/m^3, 100ppm	-	-	221mg/m^3, 50ppm	442mg/m^3, 100ppm	221mg/m^3, 50ppm	442mg/m^3, 100ppm
Zinc hydroxide	No data available.							
Zinc chromate	0.005mg/m^3	-	0.005mg/m^3	-	-	-	0.05mg/m^3	-

(1) TWA Time-weighted average (long-term exposure limit): a value in relation to an 8-hour time-weighted average reference period

(2) STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute reference period

8.1.2 Control parameters

Derived No Effect Level (DNEL)

		Workers			
Component	**Exposure**	**Acute / short-term Local Effects**	**Acute / short-term Systemic Effects**	**Long-term Local Effects**	**Long-term Systemic Effects**
Propan-2-ol	Inhalation	-	-	-	500 mg/m³
	Dermal	-	-	-	888 mg/kg bw/day
2-methylpropan-1-ol	Inhalation	-	-	310 mg/m³	-
	Dermal	-	-	-	-
Xylene	Inhalation	442 mg/m³			
	Dermal				
Zinc chromate	Inhalation				0.5 µg/m³
	Dermal	-	-	0.2 µg/cm²	0.04 mg/kg bw/day
Zinc hydroxide	Inhalation	No data available.			

	Dermal	

		General population			
Component	**Exposure**	**Acute / short-term Local Effects**	**Acute / short-term Systemic Effects**	**Long-term Local Effects**	**Long-term Systemic Effects**
Propan-2-ol	Inhalation	-	-	-	89 mg/m³
	Dermal	-	-	-	319 mg/kg bw/day
	Oral	-	-	-	26 mg/kg bw/day
2-methylpropan-1-ol	Inhalation	-	-	55 mg/m³	-
	Dermal	-	-	-	-
	Oral	-	-	-	-
Zinc chromate	Inhalation	No data available.			
	Dermal				
	Oral				
Zinc hydroxide	Inhalation	No data available.			
	Dermal				
	Oral				
Xylene	Inhalation	260 mg/m³	260 mg/m³	65,3 mg/m³	65.3 mg/m³
	Dermal	-	-	-	125 mg/kg bw/day
	Oral	-	-	-	12.5 mg/kg bw/day

Predicted No-Effect Concentration (PNEC)

Component	**Environmental protection objective**	**PNEC Value**
Propan-2-ol	Freshwater	140.9 mg/l
	Intermittent releases (freshwater)	140.9 mg/l
	Sediment (freshwater)	552 mg/kg
	Marine water	140.9 mg/l
	Sediment (marine water)	552 mg/kg
	Soil	28 mg/kg
	Sewage treatment plant (STP)	2251 mg/l
2-methylpropan-1-ol	Freshwater	400 µg/l
	Intermittent releases (freshwater)	11 mg/l
	Sediment (freshwater)	1.56 mg/kg
	Marine water	40 µg/l
	Sediment (marine water)	156 µg/kg
	Soil	76 µg/kg
	Sewage treatment plant (STP)	10 mg/l
Xylene	Freshwater	327 µg/l
	Intermittent releases (freshwater)	327 µg/l
	Sediment (freshwater)	12.46 mg/kg
	Marine water	327 µg/l
	Sediment (marine water)	12.46 mg/kg
	Soil	2.31 mg/kg
	Sewage treatment plant (STP)	6.58 mg/l
Zinc chromate	Freshwater	5 µg/l Chromium III - 20.6 µg/l Zinc
	Intermittent releases (freshwater)	5 µg/l Chromium III - Zinc: Not applicable
	Sediment (freshwater)	31 mg/kg dwt Chromium III - 117.8 mg/kg dwt Zinc
	Marine water	5 µg/l Chromium III - 6.1 µg/l Zinc

	Sediment (marine water)	31 mg/kg dwt Chromium III - 56.5 mg/kg dwt Zinc
	Soil	3.2 mg/kg dwt Chromium III - 35.6 mg/kg dwt Zinc
	Sewage treatment plant (STP)	100 µg/l Zinc - 10 mg/l Chromium III
Zinc hydroxide	Freshwater	14.4 µg/l
	Intermittent releases (freshwater)	14.4 µg/l
	Sediment (freshwater)	146.9 mg/kg
	Marine water	7.2 µg/l
	Sediment (marine water)	162.2 mg/kg
	Soil	83.1 mg/kg
	Sewage treatment plant (STP)	100 µg/l

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Wear appropriate personal protective clothing and equipment according to the concentrations and quantities of hazardous substances in the workplace.
When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Do not store tobacco in work rooms or areas where the product is used. Avoid any exposure for pregnant women. Wash hands thoroughly before breaks and after work. Avoid contact with skin, eyes and clothing. Take off all contaminated clothing immediately. Personal protective clothing must be kept separate from other clothes. Contaminated clothing to be placed in closed container until disposal or decontamination. Do not breathe vapours or spray mist. Ensure that eyewash stations are close to the workstation location. Warn cleaning personnel of chemical's hazardous properties.

8.2.2 Personal protective equipment

Eye/face protection
Use tight fitting safety goggles or face shield, with side protection. European standard EN 166.
Warning: contact lenses are dangerous; soft lenses can absorb irritants and all types of lenses concentrate them.

Hand protection
Protective gloves must be worn at all times.

Type of material (recommended): Nitrile rubber protective gloves.
Material thickness: > 0.4 mm.
Breakthrough times of the glove material: > 480 min.

European standard EN 374.

Other types of gloves can be recommended by the glove supplier.
Inspect gloves prior to use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Be aware that the liquid may penetrate the gloves. Also take into consideration the specific

local conditions under which the product is used, such as the risk of cuts, abrasion and contact time. Warning: due to the many influencing factors (e.g. temperature), the duration of use of a chemical protective glove may be significantly shorter than the breakthrough times determined by the tests. Frequent change is advisable. Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Ensure proper glove removal technique to avoid skin contact with contaminated surfaces.
Dispose of contaminated gloves according to local laws and good workplace practices.

Skin and body protection
Wear long-sleeved impervious protective clothing to avoid any possibility of liquid/vapour contact. Wear flame retardant anti-static protective equipment. Wear appropriate personal protective clothing and equipment according to the concentrations and quantities of hazardous substances in the workplace.

Respiratory protection
Use appropriate certified respirator. Respiratory protection required when:

- adequate ventilation cannot be provided
- exposure limits are exceeded
- vapours/aerosols are generated

Use appropriate personal protective equipment according to the concentrations and quantities of hazardous substances in the workplace, and in accordance with European standards NF EN.
Observe the maximum wearing times of respiratory protection devices. Respiratory protective equipment must be the correct fit and be used and maintained properly. The employer must ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the manufacturer.

8.2.3 Environmental exposure controls
Do not let product enter drains, surface and ground water. Risk of explosion.

Section 9 – Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid paint

Colour	yellow
Odour	alcohol and aromatic solvents
Odour threshold	data not available
pH	not applicable (solvent based product)
Melting point/freezing point	data not available
Boiling point and boiling range	81 °C – 108 °C
Flash point	14 °C
Evaporation rate	data not available
Flammability	data not available
Explosive limits	lower limit: 1.1%, upper limit: 12.0%
Vapour pressure	4,266 Pa (25 °C)
Density	0.89 – 0.91 (air=1)
Relative vapour density	≈2.1 (air=1)
Specific gravity	0.87 – 0.92 g/c^{m3}
Solubility	insoluble in water, soluble in organic solvents
Partition coefficient (n-octanol/water)	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	500 – 750 cP
Molecular mass	Mixture

Section 10 – Stability and reactivity

10.1 Reactivity

Stable under normal handling and storage conditions.
Other important information may be mentioned in other parts of this chapter.

10.2 Chemical stability

Stable under normal handling and storage conditions. Curation time: 5 - 60 min (20 °C)

10.3 Possibility of hazardous reactions

Vapours may form explosive mixture with air.
Risk of ignition.
May form peroxides.
Violent reaction with: combustive, nitric acid, sulfuric acid, sulphur, alkali metals, alkaline earth metals
Risk of ignition or formation of inflammable gases or vapours with: alkali metals, alkaline earth metals, chromium (VI) oxide, strong oxidising agents, aluminium
Risk of explosion with: hydrogen peroxide, phosgene, organic nitro compounds, perchlorates, strong oxidising agents, nitric acid, nitrogen dioxide

Exothermic reaction with: aldehydes, amines, oleum, iron, aluminium, chlorine, phosphorus trichloride, nitric acid, strong acids, acid chloride, halogen compounds, potassium tert-butanolate, strong combustive, reducing agents

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Avoid prolonged exposure to light.

10.5 Incompatible materials

Avoid contact with: rubber, plastic, alkalis, oils, strong combustive, acids, halogens, acid anhydrides, aluminium, acid chlorides, oxidizing and reducing agents.

See 10.3 for more details.

10.6 Hazardous decomposition products

May form peroxides, carbon monoxide (CO), carbon dioxide (CO_2), chromium oxides, zinc oxides.

Hazardous combustion substances: see section 5.

Section 11 – Toxicological information

11.1 Information on toxicological effects

A. COMPONENTS

[Propan-2-ol]

Acute toxicity

LD50 (oral) 5,840 mg/kg (rat)
LC50 (inhalation) 10,000 ppm/6h (rat)
LD50 (dermal) 16.4 ml/kg (rabbit)

(ECHA)

Skin corrosion/irritation

Causes mucosal irritation.

Eye damage/irritation

Causes irritation.

Skin sensitization/Sensitization to the respiratory tract

Causes airways irritation.

Germ cell mutagenicity

In vitro genotoxicity: negative. In vitro genotoxicity: negative.

Carcinogenicity

None.

Reproductive toxicity
Toxic to fertility and development of animals only, in doses causing toxic effects in parents.

Teratogenicity
No data available.

Specific target organ toxicity (single or repeated exposure)
No data available.

Source: ECHA and French INRS

[2-methylpropan-1-ol]

Acute toxicity

LD50 (oral)	2,830 – 3,350 mg/kg (rat)
LC50 (inhalation)	18.18 mg/l/6h (rat)
LD50 (dermal)	2,000-2,460 mg/kg (rabbit)

(ECHA)

Skin corrosion/irritation
Causes skin and mucosal (eye, respiratory tract, digestive) irritation. Category 2.

Eye damage/irritation
Causes severe eye damage. Category 1.

Skin sensitization/Sensitization to the respiratory tract
No data available.

Germ cell mutagenicity
Negative.

Carcinogenicity
No data available.

Reproductive toxicity
No effects on fertility or on development have been shown in animals.

Teratogenicity
No data available.

Specific target organ toxicity (single or repeated exposure)
Respiratory system, central nervous system. Category 3.

Source: ECHA and French INRS

[Zinc chromate]

Acute toxicity

LD50 (oral)	600 mg/kg (rat)

(French INRS)

Skin corrosion/irritation
Causes skin irritation and irritation of mucous membranes (gastrointestinal and respiratory tract.)

Eye damage/irritation
Causes irritation.

Skin sensitization/Sensitization to the respiratory tract
Skin, category 1.

Germ cell mutagenicity
In vitro genotoxicity.

Carcinogenicity
Zinc chromates are classified as carcinogenic.

Reproductive toxicity
No data available.

Teratogenicity
No data available.

Specific target organ toxicity (single or repeated exposure)
No data available.

Source: French INRS

[Xylene]
Acute toxicity

LD50 (oral)	3,523 – 4,000 mg/kg (rat)
	5,251 – 5,627 mg/kg (mouse)
LC50 (inhalation)	29 mg/l/4h (rat)
LD50 (dermal)	12,126 mg/kg (lapin)

(ECHA)

Skin corrosion/irritation
Causes skin and mucosal (eye, respiratory tract) irritation. Category 2.

Eye damage/irritation
Causes severe eye irritation. Category 2.

Skin sensitization/Sensitization to the respiratory tract
No data available.

Germ cell mutagenicity
In vitro genotoxicity: negative. In vitro genotoxicity: negative.

Carcinogenicity
No data available.

Reproductive toxicity
Xylene is embryo-lethal and fetotoxic in rats and mice at high doses that are not always toxic to mothers. No data to assess effects on fertility.

Teratogenicity
No data available.

Specific target organ toxicity (single or repeated exposure)
Respiratory tract, category 3.
May cause damage to organs (central nervous system, liver, kidney) through prolonged or repeated exposure.

Aspiration hazard
May be fatal if swallowed and enters airways.

Source: ECHA and French INRS

[Zinc Hydroxide]

Acute toxicity

LD50 (oral)	>2000 mg/kg (rat)
LC50 (inhalation)	>5.7 mg/l/4h (rat)

(ECHA)

Eye damage/irritation
Causes irritation.

Skin sensitization/Sensitization to the respiratory tract
Causes skin irritation and irritation of mucous membranes (gastrointestinal and respiratory tract.)

Germ cell mutagenicity
No data available.

Carcinogenicity
No data available.

Reproductive toxicity
No data available.

Teratogenicity
No data available.

Specific target organ toxicity (single or repeated exposure)
No data available.

Source: ECHA

B. MIXTURE

No specific data on mixture.

11.2 Further information

Other adverse effects: Severe skin irritations and dermatoses, allergic skin reactions, severe irritations of the respiratory and digestive mucous membranes,

respiratory failure and damage to the respiratory tract, central nervous system depression, neurological effects, nausea, migraine, vomiting, drowsiness, dizziness, narcosis, ataxia , shock.

Other dangerous properties cannot be excluded.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 12 – Ecological information

12.1 Toxicity

A. COMPONENTS

Propan-2-ol	Fathead minnow fish (Pimephales promelas) LC50 – 9,640 mg/l – 96h - dymamic Daphnia (Daphnia magna) CE50 – 13,299 mg/l – 48h Algae (Desmodesmus subspicatus) – LC50 – > 1,000 mg/l – 72h
2-methylpropan-1-ol	Fathead minnow fish (Pimephales promelas) LC50 – 1,430 mg/l – 96h
Zinc chromate	Fish (Poecilia reticulata) LC50 – 0.56 mg/l – 96h Fish (Oncorhynchus mykiss) LC50 – 0.24 mg/l – 96h – static
Xylene	Fish (Oncorhynchus mykiss) LC50 – 2.60 mg/l – 96h – static Algae (Pseudokirchneriella subcapitata) – EC50 – 4.36 mg/l – 73h - static Bacterium (Pseudomonas putida) – EC50 – 43 mg/l – 5.75h - static
Zinc Hydroxide	Fish (Poecilia reticulata) LC50 – 0.102 mg/l – 96h Algae (Pseudokirchneriella subcapitata) – EC50 – 0.042 mg/l – 96h - static

B. MIXTURE

No data available.

12.2 Persistence and degradability

A. COMPONENTS

Propan-2-ol	Aerobic biodegradability – Exposure time 21d Result: 95%: Readily biodegradable
2-methylpropan-1-ol	Aerobic biodegradability – Exposure time 14d Result: >90%: Readily biodegradable

Zinc chromate	The substance may persist. The product contains heavy metals. Special pre-treatment required. Contains substances known to be hazardous to the environment or non-degradable in sewage treatment plants.
Xylene	No data available.
Zinc Hydroxide	No data available.

B. MIXTURE

The product hardens to a not readily degradable mass. This product is expected to be not readily biodegradable.

12.3 Bioaccumulative potential

A. COMPONENTS

Propan-2-ol	Partition coefficient: n-octanol/water Log Pow : 0.05 Does not significantly accumulate in organisms. Bioaccumulation is not expected.
2-methylpropan-1-ol	Bioconcentration factor (BCF) <100 Partition coefficient: n-octanol/water log Pow: 0.79 (25 °C) Bioaccumulation is not expected.
Zinc chromate	This product has a high potential for bioconcentration.
Xylene	Bioconcentration factor (BCF) – 25.9
Zinc Hydroxide	No data available.

B. MIXTURE

The product hardens to a solid immobile substance. The product contains substances which are water soluble and may spread in water systems.

12.4 Mobility in soil

A. COMPONENTS

Propan-2-ol	HIGH (KOC = 1.06)
2-methylpropan-1-ol	MEDIUM (KOC = 2.048)
Zinc chromate	No data available.
Xylene	No data available.
Zinc Hydroxide	No data available.

B. MIXTURE

No data available.

12.5 Results of PBT & vPvB assessment

A. COMPONENTS

Propan-2-ol	Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).
2-methylpropan-1-ol	
Zinc chromate	
Xylene	
Zinc Hydroxide	

B. MIXTURE

No data available.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effect

Avoid release to the environment. Very toxic to aquatic life with long lasting effects.

Section 13 – Disposal considerations

13.1 Waste treatment methods

Dispose of product and container as hazardous waste. Dispose in accordance with European directives on waste and hazardous waste. Dispose of in accordance with local regulations. Keep in original container. Handle empty containers carefully, as residual vapours are flammable.

Product/packaging disposal

Dispose of containers contaminated by the product in accordance with local or national legal provisions. The European Waste Catalogue (2000/532/EC) classification of this product. Waste codes / waste designations according to LoW: 08 01 11* Waste paint and varnish containing organic solvents or other hazardous substances. If this product is mixed with other wastes, the original waste product code may no longer apply, and the appropriate code should be assigned. For further information contact your local waste authority. Waste should not be disposed of by release to sewers. Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers.

Containers which are not properly cleaned may contain (highly) flammable or explosive vapours.

Special precautions: Use appropriate protective equipment for the removal and / or disposal of this product.

HP Codes: HP3, HP4, HP5, HP7, HP13, HP14.

Section 14 – Transport information

	ADR/RID Road and Rail	IMDG	Air transport IATA
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	 3	 3	 3
14.4 Packing group	II	II	II
14.5 Environmental hazard	3YE	3YE	3YE
Marine Pollutant		No*	
EmS		F-E, S-E	

*Limited Quantities Statement:
If the product's individual container is below 5L or kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

14.6 Special precautions for user

Transport with local users: always transport in packaging that is correct and secure. Ensure that persons transporting the product are aware of the measures to be taken if an accident occurs or in case of accidental release.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not available.

Section 15 – Regulatory information

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

Observe EU and national regulations. For labelling information, please refer to section 2.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III): Not applicable.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out by the manufacturer for this product.

Section 16 – Other information

Product

The information provided in this document is based on our knowledge at the date of its publication.

The properties of the product described do not constitute a warranty in the legal sense of the term. The provision of this document does not release the purchaser of the product from his responsibility to comply with legislations and regulations in force for this product. This statement applies for the resale and distribution of the product, or of substances or goods containing this product, in other jurisdictions and having regard to the industrial and commercial property rights of third parties. If the product described is transformed or mixed with other substances or materials, the information contained in this document may not be valid for the new product thus manufactured, unless explicitly mentioned. In case of repackaging of the product, the customer is required to provide the required safety information.

Legend

CAS	Chemical Abstracts Service
ppm	part per million
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
EC50	Effective Concentration 50%
vPvB	very Persistent and very Bioaccumulative
WEL	Workplace Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic
DNEL	Derived No-Effect Level
PNEC	Predicted No-Effect Concentration
REACh	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemical
CLP	Regulation on Classification, Labelling and Packaging of substances and mixtures

ADR/RID	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association

Flam. Liq.	Flammable liquid
STOT SE	Specific target organ toxicity - single exposure
STOT RE	Specific target organ toxicity - repeated exposure
Eye Dam.	Serious eye damage/eye irritation
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
Carc.	Carcinogenicity
Acute Tox.	Acute toxicity
Skin Sens.	Respiratory/skin sensitization
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Aquatic Acute	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard