



SAFETY DATA SHEET

7100/7100NS Hard-Hat® Floorpaint

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

1.1 Product identifier

Product name : 7100/7100NS Hard-Hat® Floorpaint
Product description : Floorcoating.
Product type : Liquid.

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

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e-mail address of person responsible for this SDS : rpmeurohas@ro-m.com

1.4 Emergency telephone number

Telephone number : +44 (0) 207 858 1228

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 67/548/EEC and its amendments.

Classification : R10
R66
R52/53

Physical/chemical hazards : Flammable.

Human health hazards : Repeated exposure may cause skin dryness or cracking.

Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R-phrases declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Risk phrases : R10- Flammable.
R66- Repeated exposure may cause skin dryness or cracking.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 2: Hazards identification

Safety phrases : S2- Keep out of the reach of children.
 S23- Do not breathe vapour.
 S24- Avoid contact with skin.
 S46- If swallowed, seek medical advice immediately and show this container or label.
 S51- Use only in well-ventilated areas.
 S56- Dispose of this material and its container at hazardous or special waste collection point.

Supplemental label elements : Contains 2-butanone oxime. May produce an allergic reaction.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : Not available.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5 CAS: 64742-48-9 Index: 649-327-00-6	35-50	R10 Xn; R65 R66, R67	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	0.25-2.5	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
hydrocarbons, aromatic, C9	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6 Index: 649-356-00-4	1-2.5	R10 Xn; R65 Xi; R37 R66, R67 N; R51/53	Flam. Liq. 3, H226 STOT SE 3, H335 and H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	<15	R10 R67 See Section 16 for the full text of the R-phrases declared above.	Flam. Liq. 3, H226 STOT SE 3, H336 See Section 16 for the full text of the H statements declared above.	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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SECTION 3: Composition/information on ingredients

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. If unconscious, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 3 and 15 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 2-butanone oxime. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

SECTION 5: Firefighting measures

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

Special protective actions for fire-fighters : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

Additional information : No unusual hazard if involved in a fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

: Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.
Information on fire and explosion protection
Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

SECTION 7: Handling and storage**7.2 Conditions for safe storage, including any incompatibilities**

: Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)**Recommendations**

: Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limits**

Product/ingredient name	Exposure limit values
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 850 mg/m ³ , (as turpentine) 15 minute(s). Form: Vapour TWA: 566 mg/m ³ , (as turpentine (100 ppm)) 8 hour(s). Form: Vapour
hydrocarbons, aromatic, C9	EH40/2005 WELs (United Kingdom (UK), 10/2007). TWA: 125 mg/m ³ , (trimethylbenzene (25 ppm)) 8 hour(s).
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. STEL: 560 mg/m ³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 375 mg/m ³ 8 hour(s). TWA: 100 ppm 8 hour(s).

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived effect levels

Product/ingredient name	Type	Exposure	Value	Population	Effects	
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	DNEL	Long term Dermal	208 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	871 mg/m ³	Workers	Systemic	
	DNEL	Long term Oral, Dermal	125 mg/kg bw/day	Consumers	Systemic	
	DNEL	Long term Inhalation	185 mg/m ³	Consumers	Systemic	
	zinc oxide	DNEL	Long term Inhalation	5 mg/m ³	Workers	Systemic
		DNEL	Long term Inhalation	2.5 mg/m ³	Consumers	Systemic
		DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
		DNEL	Long term Dermal	83 mg/kg bw/day	Consumers	Systemic
		DNEL	Long term Oral	0.83 mg/kg	Consumers	Systemic

SECTION 8: Exposure controls/personal protection

hydrocarbons, aromatic, C9	DNEL	Long term Dermal	bw/day 25 mg/kg	Workers	Systemic	
	DNEL	Long term Inhalation	bw/day 150 mg/m ³	Workers	Systemic	
	DNEL	Long term Inhalation	32 mg/m ³	Consumers	Systemic	
	DNEL	Long term Oral, Dermal	11 mg/kg bw/day	Consumers	Systemic	
	1-methoxy-2-propanol	DNEL	Short term Inhalation	553.5 mg/m ³	Workers	Local
		DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemic
		DNEL	Long term Dermal	50.6 mg/kg bw/day	Workers	Systemic
		DNEL	Long term Inhalation	43.9 mg/m ³	Consumers	Systemic
		DNEL	Long term Dermal	18.1 mg/kg bw/day	Consumers	Systemic
DNEL	Long term Oral	3.3 mg/kg bw/day	Consumers	Systemic		

Predicted effect concentrations

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
zinc oxide	PNEC	Fresh water	25.6 µg/l	-
	PNEC	Marine	7.6 µg/l	-
	PNEC	Sewage Treatment Plant	64.7 µg/l	-
1-methoxy-2-propanol	PNEC	Fresh water sediment	146 mg/kg dwt	-
	PNEC	Marine water sediment	70.3 mg/kg dwt	-
	PNEC	Soil	44.3 mg/kg dwt	-
	PNEC	Fresh water	10 mg/l	-
	PNEC	Fresh water sediment	41.6 mg/l	-
	PNEC	Marine water sediment	4.17 mg/l	-
	PNEC	Soil	2.47 mg/l	-
	PNEC	Sewage Treatment Plant	100 mg/l	-

8.2 Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety glasses with side shields. (EN166)

Skin protection

Hand protection : Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: disposable overall (EN 1149-1) .

SECTION 8: Exposure controls/personal protection

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
- Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flattening should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.
- Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Recommended: organic vapour filter (Type A) (EN 140) .
- Environmental exposure controls** : Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**Appearance

- Physical state** : Liquid.
- Colour** : Various
- Odour** : Hydrocarbon. [Slight]
- Odour threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : -20°C
- Initial boiling point and boiling range** : >160°C
- Flash point** : Closed cup: 40°C [ISO EN DIN 1523 / DIN 53213-1]
- Evaporation rate** : 0,2 (Butyl acetate. = 1)
- Flammability (solid, gas)** : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts.
Vapour may travel a considerable distance to source of ignition and flash back.
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Upper/lower flammability or explosive limits** : Lower: 0.6% Upper: 8%
- Vapour pressure** : 0.7 kPa [20°C]
- Vapour density** : >1 (Air = 1)
- Relative density** : 0,94 to 1,17
- Solubility(ies)** : Partially soluble in the following materials: acetone.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : 250°C
- Decomposition temperature** : Not available.
- Viscosity** : Dynamic: 450 to 1200 mPa·s
- Explosive properties** : Slightly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Non-explosive in the presence of the following materials or conditions: shocks and mechanical impacts.
- Oxidising properties** : Not available.

9.2 Other information

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SECTION 9: Physical and chemical properties

No additional information.

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : Stable under recommended storage and handling conditions (see section 7).
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.
- 10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO₂ and smoke can be generated.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 3 and 15 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 2-butanone oxime. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	LC50 Inhalation Vapour	Rat	>4951 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Mouse	2500 mg/m ³	4 hours
	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
hydrocarbons, aromatic, C9	LD50 Oral	Rat	>15 g/kg	-
	LC50 Inhalation Vapour	Rat	>6193 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Mouse	8400 mg/kg	-
1-methoxy-2-propanol	LD50 Oral	Rat	3592 mg/kg	-
	LC50 Inhalation Vapour	Rat	55000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-

SECTION 11: Toxicological information**Conclusion/Summary** : Not available.**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	Skin - Oedema	Rabbit	1	-	-
zinc oxide	Skin - Erythema/Eschar	Rabbit	2.67	-	-
	Eyes - Cornea opacity	Rabbit	0	-	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
hydrocarbons, aromatic, C9	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Erythema/Eschar	Rabbit	1	-	-
1-methoxy-2-propanol	Eyes - Cornea opacity	Rabbit	1	-	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Conclusion/Summary : Not available.**Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	skin	Rabbit	Not sensitizing
hydrocarbons, aromatic, C9	skin	Rabbit	Not sensitizing

Conclusion/Summary : Not available.**Mutagenicity**

Product/ingredient name	Test	Experiment	Result
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	OECD 473, 474, 476	Subject: Mammalian-Animal	Negative
hydrocarbons, aromatic, C9	OECD 471	Subject: Bacteria	Negative

Conclusion/Summary : Not available.**Carcinogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	Negative - Inhalation - TC	Rat	-	-

Conclusion/Summary : Not available.**Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	-	-	Negative	Rat - Female	Oral	-
hydrocarbons, aromatic, C9	-	-	Negative	Mammal - species unspecified	Unreported	-

Conclusion/Summary : Not available.**Teratogenicity****Conclusion/Summary** : Not available.**Other information** : Not available.**Date of issue/Date of revision** : 07-02-2013.

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SECTION 12: Ecological information**12.1 Toxicity**

There are no data available on the preparation itself.
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 3 and 15 for details.

Product/ingredient name	Result	Species	Exposure	
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	Acute EC50 >1000 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	
	Acute EC50 >1000 mg/l	Daphnia spec.	48 hours	
	Acute LC50 >1000 mg/l	Fish	96 hours	
	Acute NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	
	zinc oxide	Chronic NOEC 0.23 mg/l	Daphnia spec.	-
		Chronic NOEC 0.131 mg/l	Fish	-
		Acute EC50 >1000 ppm Fresh water	Daphnia spec. - Daphnia magna - <24 hours	48 hours
		Acute IC50 63 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
		Acute LC50 24.6 mg/l Fresh water	Daphnia spec. - Daphnia magna - Neonate - <24 hours	48 hours
		Acute LC50 >320 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
Acute LC50 2246 mg/l Fresh water		Fish - Pimephales promelas - Neonate - <24 hours	96 hours	
hydrocarbons, aromatic, C9	Acute LC50 1.1 to 2.5 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours	
	Chronic NOEC 0.048 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours	
	Acute EC50 19 mg/l	Algae - Pseudokirchneriella subcapitata	96 hours	
	Acute EC50 3.2 mg/l	Daphnia spec.	48 hours	
	Acute IC50 2.9 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	
	Acute LC50 21 mg/l	Daphnia spec.	24 hours	
	Acute LC50 9.22 mg/l	Fish	96 hours	
	Acute NOEC 1 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	
	1-methoxy-2-propanol	Acute EC50 >1000 mg/l	Algae - Selenastrum capricomutum	7 days
		Acute LC50 23300 mg/l	Daphnia spec.	96 hours
Acute LC50 20800 mg/l		Fish	96 hours	

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	OECD 301B	>80 % - Readily - 28 days	-	-
	OECD 301F	>80 % - Readily - 28 days	-	-
hydrocarbons, aromatic, C9	-	78 % - Readily - 28 days	-	-
	OECD 301E	96 % - Readily - 28 days	-	-
	-	>90 % - Readily - 5 days	1.95 gO2/g ThOD	-
1-methoxy-2-propanol	OECD 301C	88 to 92 % - Readily - 28 days	-	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability

SECTION 12: Ecological information

hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	-	100%; < 28 day(s)	Readily
hydrocarbons, aromatic, C9	-	-	Readily
1-methoxy-2-propanol	Fresh water <28 days	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	5 to 6.5	-	high
hydrocarbons, aromatic, C9	3.7 to 4.5	-	high
1-methoxy-2-propanol	-0.49	<100	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : This product is not likely to volatilise rapidly into the air because of its low vapour pressure.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

13.1 Waste treatment methods**Product**

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste : Yes.

European waste catalogue (EWC) : The European Waste Catalogue classification of this product, when disposed of as waste, is:
08 01 11* waste paint and varnish containing organic solvents or other dangerous substances.
If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.


Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 13: Disposal considerations

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	1263	1263
14.2 UN proper shipping name	-	Paint.	Paint.
14.3 Transport hazard class(es)	-	3	3 
14.4 Packing group	-	III	III
14.5 Environmental hazards	No.	No.	No.
14.6 Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Additional information	Remarks Exempted according to 2.2.3.1.5 (Viscous substance exemption) This class 3 material can be considered non hazardous in packagings up to 450 L.	Emergency schedules (EmS): F-E + S-E Viscous substance exemption This class 3 material can be considered non hazardous in packagings up to 30 L. Exempted according to 2.3.2.5 (Viscous substance exemption)	Passenger and Cargo Aircraft Quantity limitation: 60 L Packaging instructions: 309 Cargo Aircraft Only Quantity limitation: 220 L Packaging instructions: 310 Limited Quantities - Passenger Aircraft Quantity limitation: 10 L Packaging instructions: Y 309

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

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

CN code : 3208 10 90

EU Regulation (EC) No. 1907/2006 (REACH)**Annex XIV - List of substances subject to authorisation****Substances of very high concern**

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

VOC for Ready-for-Use Mixture : IIA/i. One-pack performance coatings. EU limit values: 600g/l (2007) 500g/l (2010.) This product contains a maximum of 485 g/l VOC.

Europe inventory : At least one component is not listed.

Black List Chemicals : Not listed

Priority List Chemicals : Listed

Industrial use : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

🔍 Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Full text of abbreviated H statements : H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H335 May cause respiratory irritation. May cause drowsiness or dizziness.
and
H336
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.

Full text of classifications [CLP/GHS] : Aquatic Acute 1, H400 AQUATIC TOXICITY (ACUTE) - Category 1
Aquatic Chronic 1, H410 AQUATIC TOXICITY (CHRONIC) - Category 1
Aquatic Chronic 2, H411 AQUATIC TOXICITY (CHRONIC) - Category 2
Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1
Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3
STOT SE 3, H335 and H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation and Narcotic effects] - Category 3
STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3

SECTION 16: Other information

Full text of abbreviated R phrases	: R10- Flammable. R65- Harmful: may cause lung damage if swallowed. R37- Irritating to respiratory system. R66- Repeated exposure may cause skin dryness or cracking. R67- Vapours may cause drowsiness and dizziness. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of classifications [DSD/DPD]	: Xn - Harmful Xi - Irritant N - Dangerous for the environment



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Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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