

SAFETY DATA SHEET

Uula Petrooliöljymaali

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	31.12.2017
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1.1. Product identifier

Product name	Uula Petrooliöljymaali
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Use categories nordic (UCN).	59 paints, lacquers and varnishes.
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Use of the substance / preparation	Paint
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Standard industrial classification (NACE)	C 203 manufacturing of paints, lacquers, printing inks etc.
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1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name	Uula Color Oy
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Postal address	Yttiläntie 265
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Postcode	32920
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City	KAUVATSA
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Country	Finland
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Telephone number	+358 (0)108200020
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Email	uula@uula.fi
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Website	www.uula.fi
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1.4. Emergency telephone number

Emergency telephone	Telephone number: 09-471 977 (direct), 09-4711 (switchboard) Description: Poison Information Centre, Helsinki 24/7
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SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Aquatic Chronic 2; H411 Skin Sens. 1A; H317
CLP classification, comments	This product has been classified in accordance with the CLP Regulation (EC) No 1272/2008.

2.2. Label elements

Hazard pictograms (CLP)	
Composition on the label	Naphtha (petroleum), hydrotreated heavy > 15 < 20 %, Zinc oxide > 10 < 20 %, 4,5-dichloro-2-octyl-2H-isothiazol-3-one > 0.1 < 0.25 %, 2-Octyl-2H-isothiazol-3-one > 0.1 < 0.15 %
Signal word	Warning
Hazard statements	H411 Toxic to aquatic life with long lasting effects. H317 May cause an allergic skin reaction.
Precautionary statements	P280 Wear protective gloves / protective clothing / eye protection / face protection. P302+P350 IF ON SKIN: Gently wash with plenty of soap and water. P261 Avoid breathing mist/spray. P273 Avoid release to the environment. P501 Dispose of contents / container to : Empty, dry sheet metal packages are suitable for metal recycling. Liquid waste must be taken to a hazardous waste collection point. P102 Keep out of reach of children.
Supplemental label information	EUH 066 Repeated exposure may cause skin dryness or cracking. EUH 208 Contains 2-octyl-2H-isothiazol-3-one; 4,5-dichloro-2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.
Other label information (CLP)	Includes: Zinc oxide; naphtha (petroleum), hydrotreated heavy.

2.3. Other hazards

Other hazards	Oily rags, etc. must be disposed of by incineration or by soaking them in water before putting them in the trash due to the spontaneous combustion risk.
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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Naphtha (petroleum), hydrotreated heavy	CAS No.: 64742-48-9	Carc. 1B; H350	> 15 < 20 %
	EC No.: 265-150-3.	Muta. 1B; H340	
	Index No.: 649-327-00-6	Asp. tox. 1; H304	
Zinc oxide	CAS No.: 1314-13-2.	Aquatic Acute 1; H400; M-factor 1	> 10 < 20 %
	EC No.: 215-222-5.	Aquatic Chronic 1; H410; M-factor 1	
	Index No.: 030-013-00-7		
Benzyl alcohol	CAS No.: 100-51-6	Acute tox. 4; H332;	> 0.2 < 0.35 %
	EC No.: 202-859-9	Acute tox. 4; H302;	
	Index No.: 603-057-00-5		
Quaternary ammonium	CAS No.: 61789-73-9	Aquatic Chronic 1; H410	> 0,1 < 0,2 %

compounds, benzylbis (hydrogenated alkyl) methyl, chlorides	EC No.: 263-082-9	Skin Corr. 1C; H315	
4,5-dichloro-2-octyl-2H-isothiazol-3-one	CAS No.: 64359-81-5 EC No.: 264-843-8	Acute tox. 4; H302 Acute tox. 2; H330 Skin Corr 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	> 0,1 < 0,25 %
2-Octyl-2H-isothiazol-3-one	CAS No.: 26530-20-1 EC No.: 247-761-7 Index No.: 613-112-00-5	Acute tox. 3; H331 Acute tox. 3; H311 Acute tox. 4; H302; Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400; M-factor 1 Aquatic Chronic 1; H410; M-factor 1	>0.1 < 0.15%
Substance comments	CAS 64742-48-9: REACH registration number 01-2119457273-39. Note P: The substance does not need to be classified as a carcinogen or a mutagenic substance if it can be shown that the substance includes less than 0.1% w/w of benzene (EINECS no 200-753-7). This note only applies to certain complex coal-and oil-derived substances mentioned in SECTION 3.		

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory problems, artificial respiration/oxygen. In case of significant exposure: Get medical attention.
Skin contact	IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Do NOT induce vomiting. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

General symptoms and effects	Repeated or prolonged contact with the product may cause dryness of the skin by removing natural oils from the skin.
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4.3. Indication of any immediate medical attention and special treatment needed

Other information	No data recorded.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Alcohol resistant foam. Foam, carbon dioxide or dry powder. Water mist.
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Improper extinguishing media	Powerful water jets.
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5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	When heated and in case of fire, very toxic vapours/gases may be formed.
Hazardous combustion products	During heating and combustion, the product forms combustion gases that are harmful to health.

5.3. Advice for firefighters

Personal protective equipment	Wear fire / flame resistant / retardant clothing.
Fire fighting procedures	There must be safety equipment and first aid equipment that meet the minimum requirements (fire blankets, first aid kit, etc.). Reference is made to the company fire procedure.
Special protective equipment for firefighters	Use a breathing apparatus if the product is on fire.
Other information	Eliminate all ignition sources if safe to do so. Containers exposed to fire can be cooled using water. Used fire-fighting products must not be allowed to get into waterways or drain systems.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	People must be prevented from accessing the polluted/leakage area and kept upwind.
Personal protection measures	In case of inadequate ventilation wear respiratory protection. Avoid any actions which may cause undue risk. Wear necessary protective equipment.

6.2. Environmental precautions

Environmental precautionary measures	Collect spillage. Avoid discharge into drains, water courses or onto the ground. If the general public or the environment are exposed to the product, the competent authorities must be informed.
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6.3. Methods and material for containment and cleaning up

Containment	Absorb spillage with non-combustible, absorbent material. Sweep up and place into an appropriate container. For waste disposal, see section 13.
Other information	Do not absorb in sawdust or other combustible materials. Oily rags etc. shall be disposed of by incineration or by soaking them in water before putting them in the trash due to the spontaneous combustion risk.

6.4. Reference to other sections

Additional information	See sections 7, 8 and 13 for lists of protective measures.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Avoid breathing the vapors and gases. Avoid exposure to paint mist or
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spray. See the information on the appropriate personal protective equipment under section 8. Eating, drinking and smoking should be prohibited in areas where this product is handled and stored. Wash hands before breaks and immediately after handling the product.

Protective safety measures

Advice on general occupational hygiene

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Opened containers must be closed carefully. Keep away from heat, sparks and open flame.

Conditions to avoid

Avoid heat and radiation sources, static electricity and contact with food. For more information, see section 10.5.

Conditions for safe storage

Additional information on storage conditions

Store in a cool, dry and well ventilated space.

7.3. Specific end use(s)

Specific use(s)

No data recorded.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Value	TWA Year
Naphtha (petroleum) , hydrotreated heavy	CAS No.: 64742-48-9	TWA (8 h): 500 mg/m ³	TWA Year: 2015
Zinc oxide	CAS No.: 1314-13-2	TWA (8 h): 2 mg/m ³ OEL short term value Value: 10 mg/m ³ OEL short term value Value: 10 mg/m ³	TWA Year: 2014
Benzyl alcohol	CAS No.: 100-51-6	TWA (8 h): 10 ppm TWA (8h): 45 mg/m ³	
2-Octyl-2H-isothiazol-3-one	CAS No.: 26530-20-1	Limit value type: TWA TWA (8 h): 0.2 mg/m ³ Source: Dow IHG	

DNEL / PNEC

DNEL

Comments: Information is not available.

PNEC

Comments: Information is not available.

8.2. Exposure controls

Safety signs



Precautionary measures to prevent exposure

Product related measures to prevent exposure	Observe occupational exposure limits and minimize the risk of inhalation. Avoid breathing the vapors/fumes/gases. Avoid getting the product on your skin or clothes. As a preventive measure, it is recommended that users wear a basic set of CE-marked personal protective equipment. For more information about personal protective equipment (storage, use, cleaning, maintenance, protection, etc.) check the brochures provided by the equipment manufacturers. These instructions refer to the product as delivered. Security procedures that apply to the diluted product may vary depending on the dilution, the intended use, the application method to be used, etc. When determining whether there is an obligation to install emergency showers and/or eye wash equipment in the storage areas, the applicable rules concerning the storage of chemical products should be consulted. For more information, see sections 7.1 and 7.2.
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Eye / face protection

Required Properties	Wear tight-fitting goggles or face shield.
Eye protection, comments	Wear approved, tight fitting safety glasses where splashing is probable.

Hand protection

Suitable gloves type	Nitrile. Protective gloves in accordance with EN 374.
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Skin protection

Suitable protective clothing	Wear suitable protective clothing as protection against splashing or contamination. Long sleeved clothing.
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Respiratory protection

Respiratory protection necessary at	Wear suitable respiratory protection if ventilation is inadequate. Respiratory protection in accordance with EN 141. Respiratory protection equipped with an organic vapor filter, type: A.
Recommended type of equipment	Respiratory protection equipped with an organic vapor filter, type: A.

Appropriate environmental exposure control

Environmental exposure controls	Based on community legislation relating to environmental protection it is advisable to avoid leaving the product or its packaging in nature. For more information, see section 7.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Coloured liquid.
Colour	Misc. colours. In accordance with the labelling.
Odour	Aliphatic.
Odour limit	Comments: No data recorded.
pH	Comments: No data recorded.
Melting point / melting range	Comments: No data recorded.

Freezing point	Comments: No data available.
Boiling point / boiling range	Value: 180–217 °C Comments: Heavy naphtha
Flash point	Value: > 60 °C Comments: Heavy naphtha
Evaporation rate	Comments: No data recorded.
Flammability (solid, gas)	No data recorded.
Lower explosion limit with unit of measurement	Value: 0.6 Comments: Heavy naphtha
Upper explosion limit with units of measurement	Value: 7 vol% Comments: Heavy naphtha
Vapour pressure	Comments: No data recorded.
Vapour density	Comments: No data recorded.
Specific gravity	Comments: No data recorded.
Solubility	Comments: No data recorded.
Partition coefficient: n-octanol/water	Comments: No data recorded.
Spontaneous combustibility	Comments: No data recorded.
Decomposition temperature	Comments: No data recorded.
Viscosity	Value: > 20.5 mm ² /s Temperature: 40 °C
Explosive properties	No data available.
Oxidising properties	No data recorded.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Dangerous reactions are not to be expected, if the technical guidelines regarding the storage of chemicals are complied with. See section 7.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No hazardous reactions are known under normal conditions of use.
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10.4. Conditions to avoid

Conditions to avoid	Sparks and flames. Avoid exposure to high temperatures.
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10.5. Incompatible materials

Materials to avoid	Strong oxidizing substances.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Very high temperatures can lead to the formation of dangerous decomposition products such as carbon dioxide (CO ₂), carbon monoxide, and other organic compounds. A detailed description of the degradation products can be found under sections 10.3, 10.4. and 10.5.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other information regarding health hazards

Acute toxicity, mixture estimate	Comments: There is no information based on experimental evidence available on the mixture's toxicity.
Assessment of acute toxicity, classification	<p>According to the information available, the classification criteria are not met, but the product does include substances classified as dangerous in terms of this effect. For more information, see section 3. Information on the toxicity of the substances</p> <p>Acute toxicity Naphtha (petroleum), hydrotreated heavy, CAS: 64742-48-9, EC: 265-150-3; LD50, oral: 15,000 mg/kg, rat LD50, dermal: 3160 mg/kg, rabbit LC50 inhaled, rabbit: not applicable</p> <p>Zinc Dioxide, CAS: 1314-13-2, EC: 215-222-5; LD50, oral: 7950 mg/kg, mouse LD50, dermal: >2000 mg/kg LC50, inhaled: not applicable</p> <p>2-octyl-2-h-isothiazol-3-one, CAS: 26530, EC: 247-761-7; LD50, oral: >2000 mg/kg LD50, dermal: 300 mg/kg (ATEi) LC50, by inhalation: 3 mg/L (4h) (ATEi)</p> <p>4,5-dichloro-2-octyl-2H-isothiazol-3-one, CAS: 64359-81-5, EC: 264-843-8; LD50, oral: >2000 mg/kg LD50, dermal: >2000 mg/kg (ATEi) LC50, by inhalation: 0.5 mg/L (4h) (ATEi)</p>
Skin sensitization, other information	Prolonged skin contact may cause allergic contact dermatitis. Repeated exposure may cause skin dryness or cracking.
Inhalation	According to the information available, the classification criteria are not met, but the product does include substances classified as dangerous if inhaled. For more information, see section 3.
Skin contact	According to the information available, the classification criteria are not met, but the product does include substances classified as dangerous in dermal contact. For more information, see section 3.
Eye contact	According to the information available, the classification criteria are not met, but the product does include substances classified as dangerous in dermal contact. For more

Sensitisation	Respiratory: According to the information available, the classification criteria are not met, and the product does not include substances classified as dangerous in terms of sensitization. For more information, see section 3. Dermal: Repeated exposure may cause skin dryness or cracking.
Assessment of germ cell mutagenicity, classification	According to the information available, the classification criteria are not met, but the product does include substances classified as dangerous in terms of this effect. For more information, see section 3.
Assessment of carcinogenicity, classification	According to the information available, the classification criteria are not met, but the product does include substances classified as dangerous in terms of this effect. For more information, see section 3.
Assessment of reproductive toxicity, classification	According to the information available, the classification criteria are not met, and the product does not include substances classified as dangerous in terms of this property. For more information, see section 3.
Assessment of specific target organ SE, classification	According to the information available, the classification criteria are not met, and the product does not include substances classified as dangerous in terms of this effect. For more information, see section 3.
Assessment of specific target organ toxicity RE, classification	According to the information available, the classification criteria are not met, and the product does not include substances classified as dangerous in terms of this effect. For more information, see section 3.
Assessment of aspiration hazard, classification	According to the information available, the classification criteria are not met, but the product does include substances classified as dangerous in terms of this effect. For more information, see section 3.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic, fish	<p>Comments: Notes: Toxicity:</p> <p>Naphtha (petroleum), hydrotreated heavy, CAS: 64742-48-9, EC: 265-150-3. LC50: 2200 mg/L (96 h), Pimephales promelas, fish</p> <p>Zinc oxide, CAS: 1314-13-2, EC: 215-222-5. LC50: 0.82 mg/L (96 h), Oncorhynchus kisutch, fish</p> <p>2-octyl-2h-isothiazol-3-one, CAS: 26530-20-1, EC: 247-761-7. LC50: 0.1–1 mg/L (96 h), fish</p> <p>4,5-dichloro-2-octyl-2H-isothiazol-3-one, CAS: 64359-81-5, EC: 264-843-8. LC50: 0.1–1 mg/L (96 h), fish</p>
Other ecotoxicological information, algae and plant	<p>2-octyl-2-h-isothiazol-3-one, CAS: 26530-20-1, EC: 247-761-7. EC50: 0.1–1 mg/L, algae</p> <p>4,5-dichloro-2-octyl-2H-isothiazol-3-one, CAS: 64359-81-5, EC: 264-843-8. EC50: 0.1–1 mg/L (72 h), algae</p>
Other ecotoxicological information, crustaceans	<p>Naphtha (petroleum), hydrotreated heavy, CAS: 64742-48-9, EC:265-150-3: EC50: 1000 mg/L (96 h), Daphnia magna, crustacean</p> <p>Zinc oxide, CAS: 1314-13-2, EC: 215-222-5. EC50 3.4 mg/L (48 h), Daphnia magna, crustacean</p> <p>2-octyl-2-h-isothiazol-3-one, CAS: 26530-20-1, EC:247-761-7:</p>

EC50: 0.1–1 mg/L, crustacean
 4,5-dichloro-2-octyl-2H-isothiazol-3-one, CAS: 64359-81-5, EC: 264-843-8.
 EC50: 0.1–1 mg/L (48 h), crustacean

12.2. Persistence and degradability

Persistence and degradability description	Identification data: Naphtha (petroleum), hydrotreated heavy, EC: 200-753-7 CAS: 64742-48-9 EC: 265-150-3.
Biodegradability	Value: 89.9 Test period: 28 day(s)
Chemical oxygen demand (COD)	Comments: Not applicable.
Biological oxygen demand (BOD)	Comments: Not applicable.
BOD5/COD ratio	Comments: Not applicable.

12.3. Bioaccumulative potential

Bioaccumulation, comments No data recorded.

12.4. Mobility in soil

Mobility	Identification data: Naphtha (petroleum), hydrotreated heavy. EC 200-753-7 CAS: 64742-48-9 EC: 265-150-3.
Surface tension	Comments: Not entered.
Adsorption coefficient	Value: 100 Method: Koc
Desorption coefficient	Value: 100 Method: Koc
Water / air volatility rate	Comments: Not applicable.
Henry's constant	Comments: Not applicable.

12.5. Results of PBT and vPvB assessment

PBT assessment results	No data recorded.
vPvB evaluation results	No data recorded.

12.6. Other adverse effects

Other adverse effects, comments	No data recorded.
Environmental details, summation	There is no information based on experimental evidence available on the harmful effects the product may have on the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Discuss the utilization and disposal of waste with a licensed waste handler in accordance with annexes 1 and 2 (Directive 2008/98/EC). In accordance with codes 15 01 (2014/955/EU), if the packaging has been in direct contact with the product, it shall be treated in the same way as the product itself; otherwise it will be treated as non-hazardous waste. It is not recommendable to allow the product to get into drains. See section 6.2.
EWC waste code	EWC waste code: 080111 waste paint and varnish containing organic solvents or other dangerous substances
EU Regulations	Classified as hazardous waste: Yes
National regulations	Community legislation: Directive 2008/98/EEC, 2014/955/EU, Commission Regulation (EU) No. 1357/2014. Waste Act, 646/2011, 1104/2011, 195/2015, 1178/2013, 25/2014, 410/2014, 528/2014.

SECTION 14: Transport information

14.1. UN number

ADR / RID / ADN	3082
IMDG	3082
ICAO / IATA	3082

14.2. UN proper shipping name

Proper shipping name English ADR / RID / ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ADR / RID / ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name / danger releasing substance ADR / RID / ADN	Sinkkidioksidi/Zinc oxide/Zinkoxid
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name / danger releasing substance IMDG	Sinkkidioksidi/Zinc oxide/Zinkoxid
ICAO / IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name / danger releasing substance ICAO	Sinkkidioksidi/Zinc oxide/Zinkoxid

14.3. Transport hazard class(es)

ADR / RID / ADN	9
Classification code ADR / RID / ADN	M6
IMDG	9
ICAO / IATA	9

14.4. Packing group

ADR / RID / ADN	III
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IMDG	III
ICAO / IATA	III

14.5. Environmental hazards

IMDG Marine pollutant	Yes
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14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Ship type required	Not determined.

Additional information

ADR / RID / ADN hazard label	9
IMDG Hazard label	9
ICAO / IATA Hazard label	9

ADR / RID - Other information

Tunnel restriction code	-
Transport category	3
Hazard No.	90
RID other applicable information	90

IMDG / ICAO / IATA Other information

EmS	F-A, S-F
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SECTION 15: Regulatory information

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

Restriction of chemicals according to Annex XVII (REACH)	Not determined.
References (laws/regulations)	<p>Chemicals Act 599/2013 Chemicals Regulation 675/1993</p> <p>Criteria for the classification and labelling of chemicals 807/2001; amendment 687/2005, 206/2007, 655/2008, 6/2010</p> <p>Packaging security fastener and tactile warning 414/2011 Regulation on the names of substances (in Finnish/Swedish) 5/2010, amendment 1123/2010</p> <p>Government Decree on the limitation of emissions of volatile organic compounds due to the use of organic solvents in decorative paints and varnishes and vehicle refinishing products 837/2005</p> <p>Government Decree on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations</p>

Legislation and regulations	435/2001, with amendments Waste Act 646/2011 Known harmful concentrations 268/2014
Comments	Regulation (EC) No 528/2012: contains a preservative to protect the original properties of the treated product. Includes 4,5-dichloro-2-octyl-2H-isothiazol-3-one, 2-octyl-2h-isothiazol-3-one. It is recommended that you use the data collected in this safety data sheet as a starting point when assessing the risks posed by local conditions in order to determine the necessary risk control methods for the handling, use, storage and disposal of this product.

15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Supplier's notes	This safety data sheet has been drawn up pursuant to Regulation (EC) no 1907/2006, Regulation (EC) no 453/2010 and Regulation 2015/830, annex II (Guidance on the compilation of safety data sheet).
List of relevant H-phrases (Sections 2 and 3)	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H330 Fatal if inhaled. H331 Toxic if inhaled. H332 Harmful if inhaled. H340 May cause genetic defects H350 May cause cancer 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.
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Aquatic Chronic 2; H411 Skin Sens. 1A; H317
CLP classification, notes	Classification method: Aquatic Chronic 2: Calculation method Skin Sens. 1A: Calculation method
Training advice	It is recommended that all personnel handling this product receive the minimum level of training aimed at personnel protection and the prevention of occupational risks, which will facilitate their understanding and interpretation of this safety data sheet and product labels.
Key literature references and sources for data	http://echa.europa.eu http://eur-lex.europa.eu Reports and analyses provided by various raw material manufacturers.
Abbreviations and acronyms used	The CLP Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures. - PBT - persistent, bioaccumulative and toxic substance - vPvB - very persistent and very bioaccumulative substance

	<ul style="list-style-type: none">- HTP - known harmful concentration- DNEL - derived no-effect level- PNEC - probable no effect concentration- ADR: European Agreement concerning the international carriage of dangerous goods on the road- IMDG: International Maritime Code for Dangerous Goods- IATA: The International Air Transport Association- ICAO: The International Civil Aviation Organization- LD50: The dose at which half of the test animals die- LC 50: The concentration at which half of the test animals die- EC50: The concentration at which an effect is observed in half of the cases - Koc: Organic carbon-water partitioning coefficient
Information added, deleted or revised	Re-formulation. Change in classification.
Last update date	31.12.2017
Version	1