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Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

NanoPhos_GA_17092018-005 Code:

Product name Sea Prince

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

Antifouling Paint Intended use

1.3. Details of the supplier of the safety data sheet

NANOPHOS S.A.

Full address **Technological & Cultural Park**

19 500 Lavrio (Greece) District and Country

Greece

Tel. +30 22920 69312 Fax +30 22920 69303

e-mail address of the competent person

iarabatz@NanoPhos.com responsible for the Safety Data Sheet

Product distribution by: Ioannis Arabatzis

1.4. Emergency telephone number

For urgent inquiries refer to +30 22920 69312

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Flammable liquid and vanour

Hazard classification and indication:

Flammable liquid category 3

riammable liquid, category 3	11220	i iaitiitiabie iiquid arid vapour.
Reproductive toxicity, category 1B	H360D	May damage the unborn child.
Acute toxicity, category 4	H332	Harmful if inhaled.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardaya to the aquetic environment, coute toxicity	H400	Vary taxia to aquatia life

Hazardous to the aquatic environment, acute toxicity, Very toxic to aquatic life. H400 category 1

H410 Very toxic to aquatic life with long lasting effects. Hazardous to the aquatic environment, chronic toxicity,

H226

category 1

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2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:











Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour. H360D May damage the unborn child.

Harmful if inhaled. H332

H318 Causes serious eye damage. H315 Causes skin irritation.

May cause respiratory irritation. H335 May cause an allergic skin reaction. H317

H410 Very toxic to aquatic life with long lasting effects.

Restricted to professional users.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Obtain special instructions before use. P201

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P280 Wear protective gloves or protective clothing and eye or face protection.

Immediately call a POISON CENTER or a doctor. P310

In case of fire: use dry powder or Carbon Dioxide (CO₂) fire extinguisher to extinguish. P370+P378

P101 If medical advice is needed, have product container or label at hand.

Keep out of reach of children. P102 P103 Read label before use.

Contains: Zinc Pyrithione

DICOPPER OXIDE

4-METHYLPENTAN-2-ONE

ROSIN Zineb

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

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SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Contains.		
Identification	x = Conc. %	Classification 1272/2008 (CLP)
DICOPPER OXIDE CAS 1317-39-1 EC 215-270-7 INDEX 029-002-00-X	27.41%	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100
4-METHYLPENTAN-2-ONE CAS 108-10-1 EC 203-550-1 INDEX 606-004-00-4	20 < x < 30	Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066
XYLENE (MIXTURE OF ISOMERS) CAS 1330-20-7 EC 215-535-7 INDEX 601-022-00-9	10 < x < 30	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Classification note according to Annex VI to the CLP Regulation: C
Zineb CAS 12122-67-7 EC 235-180-1 INDEX 006-078-00-2	4.46%	STOT SE 3 H335, Skin Sens. 1 H317
ROSIN CAS 8050-09-7 EC 232-475-7 INDEX 650-015-00-7	1 < x < 5	Skin Sens. 1 H317
ZINC OXIDE CAS 1314-13-2 EC 215-222-5 INDEX 030-013-00-7	2,5 < x < 5	Aquatic Acute 1 H400, Aquatic Chronic 1 H410 M=1
Zinc Pyrithione CAS 13463-41-7 EC 236-671-3 INDEX -	0.5%	Repr. 1B H360D, Acute Tox. 2 H330, Acute Tox. 3 H301, STOT RE 1 H372, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1000, Aquatic Chronic 1 H410 M=10
ETHYLBENZENE CAS 100-41-4	0 < x < 5	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373

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EC 202-849-4

INDEX 601-023-00-4

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

GRC

ΕU

FRA GBR France United Kingdom

OEL EU

Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS EH40/2005 Workplace exposure limits (Third edition,published 2018)

Ελλάδα

ΕΤΗ-0/2003 WORKPIACE EXPOSURE IIIIIIIS (THIRD Edition, published 2013)

ΕΦΗΜΕΡΙ
Α ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018

Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

TLV-ACGIH **ACGIH 2019**

DICOPPER OXIDE Threshold Limit Value	9					
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
WEL	GBR	1		2		As Cu

4-METHYLPENTAN-2-ONE								
Threshold Limit Val	lue							
Type Country	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
VLEP	FRA	83	20	208	50			
WEL	GBR	208	50	416	100	SKIN		
TLV	GRC	410	100	410	100			
OEL	EU	83	20	208	50			
TLV-ACGIH		82	20	307	75			

XYLENE (MIXTURE OF ISOMERS)									
Threshold Limit Value									
Туре	Country	TWA/8h	TWA/8h		l	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
VLEP	FRA	221	50	442	100	SKIN			
WEL	GBR	220	50	441	100	SKIN			
TLV	GRC	435	100	650	150				
OEL	EU	221	50	442	100	SKIN			
TLV-ACGIH		434	100	651	150				

ROSIN							
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks /	
						Observations	
		mg/m3	ppm	mg/m3	ppm		
\A/E1	ODD	0.05		0.45			
WEL	GBR	0,05		0,15			

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ZINC OXIDE							
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA	5					
TLV	GRC	5		10			
TLV-ACGIH		2		10			

ETHYLBENZENE							
Threshold Limit Val	lue						
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA	88,4	20	442	100	SKIN	
WEL	GBR	441	100	552	125	SKIN	
TLV	GRC	435	100	545	125		
OEL	EU	442	100	884	200	SKIN	
TLV-ACGIH		87	20				

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear

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open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid

Colour Red, red-brown, white, black,

blue

Not available

Not available

Odour Not available Odour threshold Not available рΗ Not available Melting point / freezing point Not available Initial boiling point > 35 °C Not available Boiling range Flash point 23 < T < 60 °C Evaporation rate Not available Not available Flammability (solid, gas) Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Not available Vapour pressure Vapour density Not available Relative density 1.30 kg/L Solubility Not available Not available Partition coefficient: n-octanol/water Auto-ignition temperature Not available Decomposition temperature Not available Viscosity Not available

9.2. Other information

Explosive properties
Oxidising properties

Information not available

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SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

4-METHYLPENTAN-2-ONE

Reacts violently with: light metals. Attacks various types of plastic materials.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

4-METHYLPENTAN-2-ONE

May react violently with: oxidising agents.Forms peroxides with: air.Forms explosive mixtures with: hot air.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

ETHYLBENZENE

Reacts violently with: strong oxidants. Attacks various types of plastic materials. May form explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

10.5. Incompatible materials

4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

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SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

Interactive effects

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

LC50 (Inhalation - mists / powders) of the mixture: 3,50 mg/l

LC50 (Inhalation - vapours) of the mixture: 17,41 mg/l

LD50 (Oral) of the mixture: >2000 mg/kg LD50 (Dermal) of the mixture: >2000 mg/kg

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat

LD50 (Dermal) 4350 mg/kg Rabbit

Revision nr. 7 NANOPHOS S.A. Dated 05/06/2020 Printed on 05/06/2020 **Sea Prince** Page n. 11/18 Replaced revision:6 (Dated: 10/03/2020) LC50 (Inhalation) 26 mg/l/4h Rat ETHYLBENZENE LD50 (Oral) 3500 mg/kg Rat LD50 (Dermal) 15354 mg/kg Rabbit LC50 (Inhalation) 17,2 mg/l/4h Rat 4-METHYLPENTAN-2-ONE LD50 (Oral) 2080 mg/kg Rat LD50 (Dermal) > 16000 mg/kg Rabbit LC50 (Inhalation) > 8,2 mg/l/4h Rat DICOPPER OXIDE LD50 (Oral) 1340 mg/kg Rat LD50 (Dermal) > 2000 mg/kg LC50 (Inhalation) 3,34 mg/l/4h Zinc Pyrithione LD50 (Oral) 269 mg/kg (Rat) LD50 (Dermal) > 2000 mg/kg rat LC50 (Inhalation) 0,83 mg/l/4h Male rat SKIN CORROSION / IRRITATION Causes skin irritation SERIOUS EYE DAMAGE / IRRITATION Causes serious eye damage RESPIRATORY OR SKIN SENSITISATION Sensitising for the skin

GERM CELL MUTAGENICITY

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Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000).
Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

REPRODUCTIVE TOXICITY

May damage the unborn child

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

DICOPPER OXIDE

LC50 - for Fish 0,009 mg/l/96h Promelas
EC50 - for Crustacea 0,042 mg/l/48h Daphnia similis

EC50 - for Algae / Aquatic Plants 0,03 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Crustacea 0,008 mg/l Ceriodaphnia dubia

ZINC OXIDE

LC50 - for Fish 1,1 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 1,7 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 0,14 mg/l/72h Pseudokirchnerella subcapitata

Chronic NOEC for Fish 0,53 mg/l

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ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

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4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water 1,9

ZINC OXIDE

BCF > 175

12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

ROSIN

Partition coefficient: soil/water 3,7289

4-METHYLPENTAN-2-ONE

Partition coefficient: soil/water 2,008

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, 1263

IATA:

14.2. UN proper shipping name

ADR / RID: PAINT

IMDG: PAINT (DICOPPER OXIDE)

IATA: PAINT

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14.3. Transport hazard class(es)

ADR / RID:

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

IATA:

Class: 3

Label: 3



14.4. Packing group

ADR / RID, IMDG,

Ш

14.5. Environmental hazards

ADR / RID:

Environmentally

Hazardous

IMDG:

Marine Pollutant

IATA:

NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

Pass.:

14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 30

Special Provision: -

Limited Quantities: 5 Tunnel restriction code: (D/E)

IMDG:

EMS: F-E, <u>S-E</u> Limited Quantities: 5

IATA: Cargo: Maximum

quantity: 220

Packaging instructions: 366

Maximum quantity: 60 L Packaging instructions:

355

A3, A72,

Special Instructions: A192

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: P5c-E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006



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Product

Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

Zineb

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Repr. 1B	Reproductive toxicity, category 1B
Acuto Toy 2	Agusta tayligity, agtagany 2

Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2

Skin Irrit. 2 Skin irritation, category 2

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STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H360D May damage the unborn child.

H330Fatal if inhaled.H301Toxic if swallowed.H302Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage.H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
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- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
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- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 02 / 11.