

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 - Europe

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

1.1 Product identifier

Product name: Hempel's Mille NCT 7183E

Product identity: 7183E19990
Product type: antifouling paint

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

Field of application: yacht, ships and shipyards.

Identified uses: Consumer applications, Professional applications, Used by spraying.

Spraying - For professional users only.

1.3 Details of the supplier of the safety data sheet

Company details : HEMPEL A/S

Lundtoftegårdsvej 91 DK-2800 Kgs. Lyngby

Denmark

Tel.: + 45 45 93 38 00 hempel@hempel.com

Date of issue : 20 January 2021

Date of previous issue : 1 July 2020.

**SECTION 2: Hazards identification** 

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

F∕am. Liq. 3, H226 FLAMMABLE LIQUIDS

Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation)

STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)

Aquatic Acute 1, H400 AQUATIC HAZARD (ACUTE)
Aquatic Chronic 1, H410 AQUATIC HAZARD (LONG-TERM)
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms:











1.4 Emergency telephone number

+45 45 93 38 00 (08.00 - 17.00)

See section 4 First aid measures.

Emergency telephone number (with hours of operation)

Signal word : Danger

Hazard statements: H226 - Flammable liquid and vapor.

H318 - Causes serious eye damage. H335 - May cause respiratory irritation.

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

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements:

General: Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the

environment. Do not breathe vapor, mist or spray.

Response : Collect spillage. Get medical advice or attention if you feel unwell. IF INHALED: Call a POISON

CENTER or doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or doctor.

Storage: Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international

regulations.

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# **SECTION 2: Hazards identification**

Hazardous ingredients: popper (I) oxide

solvent naphtha (petroleum), light arom.

o-xylene

4-methylpentan-2-one

white spirit

Supplemental label elements:

Special packaging requirements

Containers to be fitted with child-

Not applicable.

resistant fastenings:

Tactile warning of danger: Yes, applicable.

#### 2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result None known.

in classification:

# **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [	[CLP]	Туре
popper (I) oxide	REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	-	[1]
solvent naphtha (petroleum), light arom.	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6	≥10 - ≤18	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	P	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥10 - ≤25	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	-	[1]
o-xylene	REACH #: 01-2119485822-30 EC: 202-422-2 CAS: 95-47-6	≥1 - ≤3	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	С	[1] [2]
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≥1 - ≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335 EUH066	-	[1] [2]
white spirit	REACH #: 01-2119458049-33 EC: 265-191-7 CAS: 64742-88-7 Index: 649-405-00-X	≤1.7	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) (inhalation) Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1] [2]
cupric oxide	EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6	≤1	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=1)	-	[1]
copper (metallic)	EC: 231-159-6 CAS: 7440-50-8 Index: 029-019-01-X	<1	Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=100)	-	[1]
Fatty acids, tall-oil, compds. with (Z)-N-9-octadecenyl- 1,3-propanediamine (2:1)	EC: 295-184-4 CAS: 91845-13-5	<1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1)	-	[1]
9-octadecenoic acid (z)-compd. with (z)-n-9-octadecenyl- 1,3-propanediamine	REACH #: 01-2119974119-29 EC: 254-754-2 CAS: 40027-38-1	<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 (oral) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	-	[1]

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SECTION 3:	Composition	/information	on	ingredients
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	above.	
	See Section 16 for the full text of the H statements declared	

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 and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit, see section 8.
- [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
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

#### **Active substances**

Product/ingredient name (% by	weight)

## **SECTION 4: First aid measures**

pper (I) oxide (30.4 % by weight)

#### 4.1 Description of first aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth

to an unconscious person.

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 112 and give immediate

treatment (first aid).

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15

minutes, occasionally lifting the upper and lower eyelids. 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. Give nothing by

mouth. If unconscious, place in recovery position and seek medical advice.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use

recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Keep person warm

and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so

that vomit will not re-enter the mouth and throat.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that

fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May cause respiratory irritation.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

# Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation: Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

stomach pains

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

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#### **SECTION 4: First aid measures**

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments: No specific treatment.

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Extinguishing media: Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray.

Not to be used: waterjet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or

mixture:

Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products: Decomposition products may include the following materials: carbon oxides metal oxide/oxides

#### 5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Avoid all direct contact with the spilled material. Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

#### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

# 6.3 Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product.

#### 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

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.

Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

# 7.2 Conditions for safe storage, including any incompatibilities

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## **SECTION 7: Handling and storage**

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

#### 7.3 Specific end use(s)

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

Specific end use(s): Antifouling products.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Product/ingredient name	Exposure limit values	
solvent naphtha (petroleum), light arom.	EU OEL (Europe).	
	TWA: 120 mg/m³ 8 hours. Form: Tentativ	
	TWA: 25 ppm 8 hours. Form: Tentativ	
o-xylene	EU OEL (Europe, 10/2019). Absorbed through skin.	
	STEL: 442 mg/m³ 15 minutes.	
	STEL: 100 ppm 15 minutes.	
	TWA: 221 mg/m³ 8 hours.	
	TWA: 50 ppm 8 hours.	
4-methylpentan-2-one	EU OEL (Europe, 10/2019).	
	TWA: 20 ppm 8 hours.	
	TWA: 83 mg/m³ 8 hours.	
	STEL: 50 ppm 15 minutes.	
	STEL: 208 mg/m³ 15 minutes.	
white spirit	EU OEL (Europe).	
	(ACGIH) TWA: 25 ppm 8 hours.	
	(ACGIH) TWA: 145 mg/m³ 8 hours.	

#### 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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Derived effect levels**

Not applicable.

#### Predicted effect concentrations

Not applicable.

#### 8.2 Exposure controls

# Appropriate engineering controls

Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

# Individual protection measures

General:

Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure.









Hygiene measures :

Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

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## **SECTION 8: Exposure controls/personal protection**

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment

indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face

respirator may be required instead.

Hand protection: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. The

quality of the chemical-resistant protective gloves must be chosen as a function of the specific

workplace concentrations and quantity of hazardous substances.

Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the

appropriate type. Below listed glove(s) should be regarded as generic advice:

Recommended: Silver Shield / Barrier / 4H gloves, polyvinyl alcohol (PVA), Viton®

May be used: nitrile rubber

Short term exposure: neoprene rubber, butyl rubber, natural rubber (latex), polyvinyl chloride (PVC)

Body protection: Personal protective equipment for the body should be selected based on the task being performed and

the risks involved handling this product.

Wear suitable protective clothing. Always wear protective clothing when spraying.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk

assessment indicates this is necessary. 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. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. Be sure to use an approved/certified respirator or equivalent.

#### **Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical state : Liquid.

Color : Black.

Odor : Solvent-like

pH: Testing not relevant or not possible due to nature of the product.

Melting point/freezing point: 439.835°C This is based on data for the following ingredient: copper (I) oxide

Boiling point/boiling range: Testing not relevant or not possible due to nature of the product.

Flash point : Closed cup: 33°C (91.4°F)

Open cup: 33°C (91.4°F)

Evaporation rate: Testing not relevant or not possible due to nature of the product.

Flammability: Highly flammable in the presence of the following materials or conditions: open flames, sparks and

static discharge and heat.

Flammable in the presence of the following materials or conditions: oxidizing materials. Slightly flammable in the presence of the following materials or conditions: reducing materials.

Lower and upper explosive

(flammable) limits :

0.6 - 7.6 vol %

Vapor pressure : Testing not relevant or not possible due to nature of the product.

Vapor density : Testing not relevant or not possible due to nature of the product.

Specific gravity: 1.683 g/cm<sup>3</sup>

Solubility(ies): Partially soluble in the following materials: cold water and hot water.

Partition coefficient (LogKow): Testing not relevant or not possible due to nature of the product.

Auto-ignition temperature : Lowest known value: >220°C (>428°F) (white spirit).

Decomposition temperature: Testing not relevant or not possible due to nature of the product.

Viscosity: Aspiration hazard (H304) Not classified. Testing not relevant due to nature of the product.

Explosive properties: Explosive in the presence of the following materials or conditions: open flames, sparks and static

discharge and heat.

Oxidizing properties: Testing not relevant or not possible due to nature of the product.

# 9.2 Other information

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## **SECTION 9: Physical and chemical properties**

Solvent(s) % by weight : Weighted average: 25 % Water % by weight : Weighted average: 0 %

VOC content : 421.7 g/l
VOC content, Ready-for-use Not applicable

mixture :

TOC Content: Weighted average: 334 g/l
Solvent Gas: Weighted average: 0.088 m³/l

# **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

The product is stable.

#### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

#### 10.5 Incompatible materials

Highly reactive or incompatible with the following materials: oxidizing materials and reducing materials. Reactive or incompatible with the following materials: organic materials, acids, alkalis and moisture.

# 10.6 Hazardous decomposition products

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

Decomposition products may include the following materials: carbon oxides metal oxide/oxides

# SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Exposure to component solvent vapor concentrations 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. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. 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. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
popper (I) oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1340 mg/kg	-
solvent naphtha (petroleum), light	LC50 Inhalation Vapor	Rat	6193 mg/m <sup>3</sup>	4 hours
arom.				
	LD50 Dermal	Rabbit	3160 mg/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5.7 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
o-xylene	LC50 Inhalation Vapor	Rat	21.5 mg/l	4 hours
,	LD50 Dermal	Rabbit	>4300 mg/kg	-
	LD50 Oral	Rat	3567 mg/kg	-
4-methylpentan-2-one	LD Dermal	Rabbit	>3 g/kg	-
copper (metallic)	LC50 Inhalation Dusts and mists	Rat	1.5 mg/l	4 hours
, ,	LD50 Dermal	Rat	>2000 mg/kg	-
	TDLo Oral	Human	0.01 mg/kg	-

Acute toxicity estimates

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# **SECTION 11: Toxicological information**

Product/ingredient name	Oral mg/kg	Dermal mg/kg	Inhalation (gases) ppm	Inhalation (vapors) mg/l	Inhalation (dusts and mists) mg/l
Hempel's Mille NCT 7183E copper (I) oxide solvent naphtha (petroleum), light arom. o-xylene 4-methylpentan-2-one	6050.3 1340 8400 3567	66537.5 3160 1100		337.8 11 11	13.8 3.34
copper (metallic) Fatty acids, tall-oil, compds. with (Z)-N-9-octadecenyl- 1,3-propanediamine (2:1)	500 500				0.5

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure
popper (I) oxide solvent naphtha (petroleum), light arom.	Eyes - Irritant Eyes - Mild irritant	Rabbit Rabbit	-	- 24 hours 100 microliters
zinc oxide  4-methylpentan-2-one	Eyes - Mild irritant Skin - Mild irritant Eyes - Moderate irritant Skin - Mild irritant	Rabbit Rabbit Rabbit Rabbit		24 hours 500 milligrams 24 hours 500 milligrams 24 hours 100 microliters 24 hours 500 milligrams

### **Mutagenic effects**

No known significant effects or critical hazards.

#### Carcinogenicity

No known significant effects or critical hazards.

### Reproductive toxicity

No known significant effects or critical hazards.

# **Teratogenic effects**

No known significant effects or critical hazards.

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), light arom.	Category 3		Respiratory tract irritation
, , , ,	Category 3		Narcotic effects
1,2,4-trimethylbenzene	Category 3		Respiratory tract irritation
o-xylene	Category 3		Respiratory tract irritation
4-methylpentan-2-one	Category 3		Respiratory tract irritation
white spirit	Category 3		Narcotic effects

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
white spirit	Category 1	inhalation	central nervous system (CNS)
9-octadecenoic acid (z)-compd. with (z)-n-9-octadecenyl-	Category 2	oral	-
1,3-propanediamine			

# **Aspiration hazard**

Product/ingredient name	Result
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1
o-xylene	ASPIRATION HAZARD - Category 1
white spirit	ASPIRATION HAZARD - Category 1

# Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential chronic health effects

# 11.2 Information on other hazards

Endocrine disrupting properties : No known data avaliable in our database.

Other information: No additional known significant effects or critical hazards.

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# **SECTION 12: Ecological information**

### 12.1 Toxicity

Do not allow to enter drains or watercourses. Very toxic to aquatic life with long lasting effects.

Product/ingredient name	Result	Species	Exposure
popper (I) oxide	EC50 65 mg/l	Algae	72 hours
	Acute EC50 0.51 mg/l	Daphnia - Daphnia Magna	48 hours
	Acute LC50 0.0081 mg/l	Fish - Pimephales promelas	96 hours
solvent naphtha (petroleum), light arom.	Acute EC50 19 mg/l	Algae - Pseudokirchneriella subcapitata (green algae)	96 hours
	Acute EC50 6.14 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.22 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
zinc oxide	LC50 0.169 mg/l	Fish	96 hours
	Acute EC50 0.17 mg/l	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute EC50 1 mg/l	Daphnia - Pseudokirchneriella subcapitata - Exponential growth phase	48 hours
	Acute LC50 24600 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
4-methylpentan-2-one	Chronic NOEC 7800 - 39000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
white spirit	Acute EC50 4.6 - 10 mg/l	Algae	72 hours
	Acute EC50 10 - 20 mg/l	Daphnia	48 hours
	Acute EC50 10 - 30 mg/l	Fish	96 hours
copper (metallic)	Acute EC50 1100 μg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 2.1 μg/l Fresh water	Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute IC50 13 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute IC50 5.4 mg/l Marine water	Aquatic plants - Plantae - Exponential growth phase	72 hours
	Acute LC50 0.072 µg/l Marine water	Crustaceans - Amphipoda - Adult	48 hours
	Acute LC50 7.56 µg/l Marine water	Fish - Periophthalmus waltoni - Adult	96 hours
	Chronic NOEC 2.5 µg/l Marine water	Algae - Nitzschia closterium - Exponential growth phase	72 hours
	Chronic NOEC 7 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 0.02 mg/l Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days
	Chronic NOEC 2 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.8 µg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks

# 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum	
solvent naphtha (petroleum), light arom.	-	>70 % - Readily - 28 days	-	-	
4-methylpentan-2-one	-	84 % - 14 days	100 mg/l	-	
white spirit	301F Ready Biodegradability - Manometric Respirometry Test	7 - 74 % - Readily - 28 days	-	-	
Duadwat/inguadiant name				Biodegradability	
Product/ingredient name	Aquatic half-life	Photolysis	Biode	gradability	
solvent naphtha (petroleum), light	Aquatic half-life	Photolysis -	Readily	gradability	
	- Aquatic half-life	Photolysis	· ·	gradability	
solvent naphtha (petroleum), light arom.	- Aquatic half-life	Photolysis	· ·	gradability	
solvent naphtha (petroleum), light		Photolysis	Readily	gradability	

# 12.3 Bioaccumulative potential

Product/ingredient name	LogP₀w	BCF	Potential
solvent naphtha (petroleum), light arom. zinc oxide o-xylene 4-methylpentan-2-one white spirit 9-octadecenoic acid (z)-compd. with (z)-n-9-octadecenyl- 1,3-propanediamine	- 2.2 3.12 1.31 3 - 7.3	10 - 2500 60960 8.1 - 25.9 2 - 70.8	high high low low high low

# 12.4 Mobility in soil

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## **SECTION 12: Ecological information**

Soil/water partition coefficient

No known data avaliable in our database.

(K<sub>oc</sub>):

Mobility: No known data avaliable in our database.

#### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.							

# 12.6 Endocrine disrupting properties

No known data avaliable in our database.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

European waste catalogue no. (EWC) is given below.

European waste catalogue (EWC): 08 01 11\*

#### **Packaging**

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

#### **SECTION 14: Transport information**

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

	14.1 UN / ID no.	14.2 Proper shipping name	14.3 Transport hazard class(es)	14.4 PG*	14.5 Env*	Additional information
ADR/RID Class	UN1263	PAINT	3 42	III	Yes.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Tunnel code (D/E)
IMDG Class	UN1263	PAINT. (copper (I) oxide)	3 (1) (1)	III	Yes.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <b>Emergency schedules</b> F-E, S-E
IATA Class	UN1263	PAINT	3	III	Yes.	The environmentally hazardous substance mark may appear if required by other transportation regulations.

PG\* : Packing group

Env.\* : Environmental hazards

## 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.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

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#### SECTION 15: Regulatory information

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

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

#### **Annex XIV**

None of the components are listed.

#### 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

Seveso category This product is controlled under the Seveso III Directive.

#### Seveso category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1

#### **Biocidal Products Regulations**

Restrictions on use.: See Section 1: Relevant identified uses of the substance or mixture and uses advised against

Directions for use and dose rate: Spray or Roller application or brushing

Consumer use: Rolling, Brushing

Dose: See separate Product Data Sheet, Application instructions or label.

Additional information: (Product Type: 21 - Antifouling products) Liquid. Wear suitable protective clothing, gloves and eye/face

protection. In case of contact with eyes, rinse immediately with plenty of water. If swallowed, seek medical advice immediately and show this container or label. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety

data sheet.

#### International regulations

# IMO Anti-fouling System Convention Compliant (AFS/CONF/26)

This product does not contain organotin compounds acting as biocides and complies with the International Convention on the Control of Harmful Anti-fouling Systems on Ships as adopted by IMO October 2001 (IMO document AFS/CONF/26)

Product type : antifouling paint

Manufacturer : Hempel A/S

Product name and/or code: Hempel's Mille NCT 7183E

7183E19990

Colour: Black.

Note: This name is shown on the product container. All products in HEMPEL's containers carrying this name comply with the IMO

Convention (AFS/CONF/26).

Active ingredient(s): copper (I) oxide 1317-39-1

#### 15.2 Chemical Safety Assessment

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

# **SECTION 16: Other information**

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

EUH statement = CLP-specific Hazard statement

RRN = REACH Registration Number DNEL = Derived No Effect Level PNEC = Predicted No Effect Concentration

Full text of abbreviated H statements: H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.
H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

May cause respiratory irritation.

H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled

H331 Toxic if inhaled. H332 Harmful if inhaled

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H335



#### **SECTION 16: Other information**

H336 May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure. H372 H373

May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. H411 H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]: Acute Tox. 3 **ACUTE TOXICITY - Category 3** 

ACUTE TOXICITY - Category 4 Acute Tox. 4

AQUATIC HAZARD (ACUTE) - Category 1 Aquatic Acute 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Aquatic Chronic 1 Aquatic Chronic 2 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 Aquatic Chronic 3

ASPIRATION HAZARD - Category 1 Asp. Tox. 1

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Eye Dam. 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 3 Flam. Liq. 3

SKIN CORROSION/IRRITATION - Category 2 Skin Irrit. 2

STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3 STOT SE 3

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
MAMMABLE LIQUIDS	On basis of test data
SERIOUS EYE DAMAGE/ EYE IRRITATION	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation)	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)	Calculation method
AQUATIC HAZARD (ACUTE)	Calculation method
AQUATIC HAZARD (LONG-TERM)	Calculation method

# Notice to reader

Indicates information that has changed from previously issued version.

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical preformance or suitability for particular applications.

It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.

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