# SAFETY DATA SHEET

Date of issue/Date of revision : 9 November 2022 Version : 1



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

1.1 Product identifier

Product name : ABC 3 AF DARK RED

Product code : 00280548

Product description

Product type : Liquid.

Other means of : Not available.

identification

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

**Product use** : Professional applications, Used by spraying.

Use of the substance/

mixture

: Antifouling products

**Uses advised against**: Product is not intended, labelled or packaged for consumer use.

# 1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311

Fax +32-33606311

e-mail address of person responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone number

**Supplier** 

+31 20 4075210

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture
Classification according to UK CLP/GHS

Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

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

#### 2.2 Label elements

Hazard pictograms









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# **SECTION 2: Hazards identification**

Signal word : Danger

: Highly flammable liquid and vapour. **Hazard statements** 

Harmful if swallowed or if inhaled.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention** : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Avoid

release to the environment.

Response : Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** : Not applicable.

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

and international regulations.

P280, P210, P273, P391, P305 + P351 + P338, P501

Supplemental label

elements

: Not applicable.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

: Not applicable.

**Special packaging requirements** 

**Containers to be fitted** 

fastenings

with child-resistant

Tactile warning of danger : Not applicable.

2.3 Other hazards

**Product meets the criteria** for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

vPvB.

Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.

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

Mixture

#### 3.2 Mixtures

Product/ingredient name	Identifiers	%	Classification	Type
dicopper 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=10)	[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]
xylene	REACH #: 01-2119488216-32	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312	[1] [2]

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

<b>SECTION 3: Compo</b>	sition/information on i	ngredients		
	EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9		Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	
rosin	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	≥5.0 - ≤10	Skin Sens. 1, H317	[1] [2]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≥1.0 - ≤4.7	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
ziram (ISO)	EC: 205-288-3 CAS: 137-30-4 Index: 006-012-00-2	≥1.0 - ≤4.5	Acute Tox. 4, H302 Acute Tox. 2, H330 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	[1]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥1.0 - <3.0	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]
N-ethyl-o(or p)- toluenesulphonamide ethylbenzene	EC: 232-465-2 CAS: 8047-99-2 REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0 ≥1.0 - ≤5.0	STOT SE 3, H336  Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1]
triiron tetraoxide	REACH #: 01-2119457646-28 EC: 215-277-5 CAS: 1317-61-9	≥1.0 - ≤5.0	Not classified.	[2]
copper(II) oxide	REACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6	≥1.0 - ≤5.0	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)	[1]
copper	REACH #: 01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8	<1.0	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[1]
			See Section 16 for the full text of the H statements declared above.	

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

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

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

**Eye contact**: Check for and remove any contact lenses. Immediately flush eyes with running water for

at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

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

or use recognised skin cleanser. Do NOT use solvents or thinners.

**Ingestion**: If swallowed, seek medical advice immediately and show the container or label. Keep

person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate

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 : Harmful if inhaled.

**Skin contact**: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

stomach pains

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

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

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# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

: Do not use water jet.

media

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

Hazards from the substance or mixture : Highly flammable liquid and vapour. 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

nitrogen oxides sulfur oxides metal oxide/oxides

#### 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

: 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

**6.2 Environmental** precautions

: Avoid dispersal of spilt 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. Collect spillage.

### 6.3 Methods and material for containment and cleaning up

**Small spill** 

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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# **SECTION 6: Accidental release measures**

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the 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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 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**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

# 7.1 Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# 7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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

### 8.1 Control parameters

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
dicopper oxide	EH40/2005 WELs (United Kingdom (UK), 1/2020). [Copper and
	compounds]
	STEL: 2 mg/m³, (as Cu) 15 minutes. Form: Dusts and Mists
	TWA: 1 mg/m³, (as Cu) 8 hours. Form: Dusts and Mists
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p-
	or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
rosin	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation
	sensitiser.
	STEL: 0.15 mg/m³ 15 minutes. Form: Fume
	TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Fume
butan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 154 mg/m³ 15 minutes.
	STEL: 50 ppm 15 minutes.
toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 384 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 191 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 441 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
triiron tetraoxide	EH40/2005 WELs (United Kingdom (UK), 9/2006).
	WEL 15 min limit: 2 mg/m³, (As Fe) 15 minutes.
	WEL 8 hrs limit: 1 mg/m³, (As Fe) 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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

# **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
dicopper oxide	DNEL	Long term Oral	0.041 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.082 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	1 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
zinc oxide	DNEL	Long term Inhalation	0.5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
xylene	DNEL	Short term Inhalation	260 mg/m³	General population	,

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# SECTION 8: Exposure controls/personal protection

SECTION 6. Exposure					
	DNEL	Short term Inhalation	260 mg/m³	General population	
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	•
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Systemic
	DNEL DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation Short term Inhalation	221 mg/m³	Workers Workers	Systemic
	DNEL		442 mg/m³ 221 mg/m³		Systemic Local
	DNEL	Long term Inhalation Short term Inhalation	442 mg/m <sup>3</sup>	Workers Workers	Local
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m³	General population	Local
	DNEL	Short term Inhalation	260 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Local
rosin	DNEL	Long term Inhalation	35 mg/m³	General population	Systemic
103111	DNEL	Long term Inhalation	117 mg/m³	Workers	Systemic
	DNEL	Long term Oral	1.0655 mg/kg bw/day		Systemic
	DNEL	Long term Dermal	1.0655 mg/kg bw/day		Systemic
	DNEL	Long term Dermal	2.131 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	Workers	Local
butan-1-ol	DNEL	Long term Inhalation	55 mg/m³	General population	Local
	DNEL	Long term Inhalation	310 mg/m³	Workers	Local
	DNEL	Long term Oral	1.5625 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	55.357 mg/m <sup>3</sup>	General population	Systemic
ziram (ISO)	DNEL	Short term Inhalation	0.64 mg/m³	Workers	Local
()	DNEL	Short term Inhalation	0.64 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	0.64 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	1.2 mg/kg bw/day	Workers	Systemic
toluene	DNEL	Long term Oral	8.13 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	56.5 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	56.5 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Local
	DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic
N-ethyl-o(or p)-	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
toluenesulphonamide					•
·	DNEL	Long term Inhalation	5.65 mg/m³	General population	Systemic
	DNEL	Long term Dermal	8.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	13.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	19.1 mg/m³	Workers	Systemic
ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m³	Workers	Local
triiron tetraoxide	DNEL	Long term Inhalation	10 mg/m³	Workers	Local
tillion tetraoxide	i	_	0.041 mg/kg bw/day	General population	Systemic
copper(II) oxide	DNEL	Long term Oral	0.011 mg/kg bw/day	General population [	
	DNEL	Short term Oral	0.082 mg/kg bw/day	General population	Systemic
					Systemic Local
	DNEL	Short term Oral	0.082 mg/kg bw/day	General population	Local
	DNEL DNEL	Short term Oral Long term Inhalation	0.082 mg/kg bw/day 1 mg/m³	General population Workers	Local Systemic
	DNEL DNEL DNEL	Short term Oral Long term Inhalation Long term Inhalation	0.082 mg/kg bw/day 1 mg/m³ 1 mg/m³	General population Workers Workers	Local Systemic
copper(II) oxide	DNEL DNEL DNEL DNEL	Short term Oral Long term Inhalation Long term Inhalation Long term Dermal	0.082 mg/kg bw/day 1 mg/m³ 1 mg/m³ 137 mg/kg bw/day	General population Workers Workers Workers	Local Systemic Systemic
copper(II) oxide	DNEL DNEL DNEL DNEL DNEL	Short term Oral Long term Inhalation Long term Inhalation Long term Dermal Short term Inhalation	0.082 mg/kg bw/day 1 mg/m³ 1 mg/m³ 137 mg/kg bw/day 1 mg/m³	General population Workers Workers Workers General population	Local Systemic Systemic Local Local
copper(II) oxide	DNEL DNEL DNEL DNEL DNEL DNEL	Short term Oral Long term Inhalation Long term Inhalation Long term Dermal Short term Inhalation Long term Inhalation	0.082 mg/kg bw/day 1 mg/m³ 1 mg/m³ 137 mg/kg bw/day 1 mg/m³ 1 mg/m³	General population Workers Workers Workers General population General population	Systemic Systemic Local
copper(II) oxide	DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Short term Oral Long term Inhalation Long term Inhalation Long term Dermal Short term Inhalation Long term Inhalation Short term Inhalation	0.082 mg/kg bw/day 1 mg/m³ 1 mg/m³ 137 mg/kg bw/day 1 mg/m³ 1 mg/m³ 20 mg/m³	General population Workers Workers Workers General population General population General population	Local Systemic Systemic Local Local Systemic

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Code : 00280548 Date of issue/Date of revision : 9 November 2022
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# **SECTION 8: Exposure controls/personal protection**

DNEL	Short term Dermal	273 mg/kg bw/day	General population	Systemic
DNEL	Short term Dermal	273 mg/kg bw/day	Workers	Systemic
DNEL	Long term Oral	0.041 mg/kg bw/day	General population	Systemic

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
dicopper oxide	Fresh water	0.0078 mg/l	-
• •	Fresh water sediment	87.1 mg/kg dwt	-
	Marine water	0.0056 mg/l	-
	Marine water sediment	676 mg/kg dwt	_
	Soil	64.6 mg/kg dwt	_
	Sewage Treatment Plant		_
zinc oxide	Fresh water	20.6 μg/l	Sensitivity Distribution
	Marine water	6.1 µg/l	Sensitivity Distribution
	Fresh water sediment	117 mg/kg dwt	Sensitivity Distribution
	Sewage Treatment Plant		Assessment Factors
	Marine water sediment	56.5 mg/kg dwt	Assessment Factors
	Soil	35.6 mg/kg dwt	Sensitivity Distribution
xylene	Fresh water	0.327 mg/l	-
,	Marine water	0.327 mg/l	_
	Sewage Treatment Plant		_
	Fresh water sediment	12.46 mg/kg dwt	_
	Marine water sediment	12.46 mg/kg dwt	_
	Soil	2.31 mg/kg	_
rosin	Fresh water	0.002 mg/l	Assessment Factors
	Marine water	0 mg/l	Assessment Factors
	Sewage Treatment Plant		Assessment Factors
	Fresh water sediment	0.007 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.001 mg/kg dwt	Equilibrium Partitioning
	Soil	0 mg/kg dwt	Equilibrium Partitioning
outan-1-ol	Fresh water	0.082 mg/l	- '
	Marine water	0.0082 mg/l	_
	Fresh water sediment	0.178 mg/kg	_
	Marine water sediment	0.0178 mg/kg	_
	Soil	0.015 mg/kg	_
	Sewage Treatment Plant		_
toluene	Fresh water	0.68 mg/l	Sensitivity Distribution
	Marine water	0.68 mg/l	Sensitivity Distribution
	Sewage Treatment Plant		Sensitivity Distribution
	Fresh water sediment	16.39 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	16.39 mg/kg dwt	-
ethylbenzene	Fresh water	0.1 mg/l	Assessment Factors
•	Marine water	0.01 mg/l	Assessment Factors
	Sewage Treatment Plant		Assessment Factors
	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	Secondary Poisoning	20 mg/kg	- '

# 8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Individual protection measures** 

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

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection
Skin protection
Hand protection

: Chemical splash goggles and face shield.

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

butyl rubber

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

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 workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3

**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**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state : Liquid.
Colour : Red.
Odour : Aromatic.
Odour threshold : Not available.

**Melting point/freezing point** : May start to solidify at the following temperature: 1597°C (2906.6°F) This is based

on data for the following ingredient: triiron tetraoxide. Weighted average: 37.33°C

(99.2°F)

Initial boiling point and

boiling range

: >37.78°C (>100°F)

Flammability (solid, gas)

oility (solid, gas) : liquid

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

Upper/lower flammability or

explosive limits

: Greatest known range: Lower: 1.4% Upper: 11.3% (butan-1-ol)

Method

Flash point : Closed cup: 22°C (71.6°F)

**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
butan-1-ol	355	671	EU A.15

**Decomposition temperature** :

pH : Not applicable.

Not applicable. insoluble in water.

Viscosity : Kinematic (40°C): >21 mm<sup>2</sup>/s

Solubility(ies) :

		MELIIOU
Media	Result	
cold water	Not soluble	

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Vapour Pressure at 20°C		Vap	oour pressure at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa
toluene	23.17	3.1			

Relative density : 1.96

**Vapour density** : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.36 (Air = 1)

**Explosive properties** : The product itself is not explosive, but the formation of an explosible mixture of

: Product does not present an oxidizing hazard.

vapour or dust with air is possible.

Oxidising properties

**Particle characteristics** 

Median particle size : Not applicable.

# **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 : U hazardous reactions

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

**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

**10.5 Incompatible materials**: Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

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**Acute toxicity** 

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and	Rat	3.34 mg/l	4 hours
• •	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m <sup>3</sup>	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
•	LD50 Oral	Rat	4.3 g/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
ziram (ISO)	LC50 Inhalation Dusts and	Rat	81 mg/m³	4 hours
,	mists			
	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Dermal	Rat	>6 g/kg	-
	LD50 Oral	Rat	267 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
N-ethyl-o(or p)-	LD50 Oral	Rat	2250 mg/kg	-
toluenesulphonamide				
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
triiron tetraoxide	LC50 Inhalation Dusts and	Rat	>5.05 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>5000 mg/kg	-
copper(II) oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
	1 • •		i e	1

# Conclusion/Summary Acute toxicity estimates

mists

: There are no data available on the mixture itself.

#### **Product/ingredient name** Oral (mg/ **Dermal** Inhalation Inhalation Inhalation (mg/kg) (gases) (vapours) (dusts kg) and mists) (ppm) (mg/l) (mg/l) ABC 3 AF DARK RED 1125.8 16184.7 N/A 93.7 1.5 500 N/A N/A N/A 3.34 dicopper oxide 1700 xylene 4300 N/A 11 N/A rosin 7600 N/A N/A N/A N/A 790 3400 24 butan-1-ol N/A N/A 0.081 ziram (ISO) 500 N/A N/A N/A 49 toluene 5580 8390 N/A N/A N-ethyl-o(or p)-toluenesulphonamide 2250 N/A N/A N/A N/A ethylbenzene 3500 17800 N/A 17.8 N/A

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

**Conclusion/Summary**: Not available.

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# **SECTION 11: Toxicological information**

Skin : There are no data available on the mixture itself. **Eyes** : There are no data available on the mixture itself.

: There are no data available on the mixture itself. Respiratory

**Sensitisation** 

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself. : There are no data available on the mixture itself. Respiratory

**Mutagenicity** 

: There are no data available on the mixture itself. **Conclusion/Summary** 

**Carcinogenicity** 

**Conclusion/Summary** : There are no data available on the mixture itself.

**Reproductive toxicity** 

**Conclusion/Summary** : There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary** There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
ziram (ISO)	Category 3	-	Respiratory tract irritation
toluene N-ethyl-o(or p)-toluenesulphonamide	Category 3 Category 3	-	Narcotic effects Narcotic effects

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ziram (ISO)	Category 2	-	-
toluene	Category 2	-	-
ethylbenzene	Category 2	-	hearing organs

# **Aspiration hazard**

Product/ingredient name	Result	
xylene toluene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	

**Information on likely routes**: Not available.

of exposure

Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : Harmful if inhaled.

: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. **Skin contact** 

: Harmful if swallowed. Ingestion

# Symptoms related to the physical, chemical and toxicological characteristics

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# **SECTION 11: Toxicological information**

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur

**Ingestion**: Adverse symptoms may include the following:

stomach pains

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

**Short term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

**Potential immediate** 

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis. Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
dicopper oxide	LC50 0.003 mg/l	Fish	96 hours
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		magna - Neonate	
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours
ziram (ISO)	Acute EC50 5.421 µg/l Marine water	Algae - Diatom - Nitzschia	96 hours
, ,		pungens	
	Chronic NOEC 0.265 µg/l Marine water	Algae - Diatom - Nitzschia	96 hours
		pungens	
N-ethyl-o(or p)-	EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours
toluenesulphonamide			
·	LC50 130 mg/l	Fish - Lepomis macrochirus	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
triiron tetraoxide	Acute LC50 10000 mg/l	Fish	96 hours

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# **SECTION 12: Ecological information**

copper Acute LC50 810 ppb Fish 96 hours

Conclusion/Summary : Not available.

# 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-

**Conclusion/Summary**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
toluene	-	-	Readily
ethylbenzene	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene		7.4 to 18.5	low
rosin	1.9 to 7.7	-	high
butan-1-ol	1	-	low
ziram (ISO)	1.65	-	low
toluene		8.32	low
N-ethyl-o(or p)-	1.87	-	low
toluenesulphonamide		70.40	
ethylbenzene	3.6	79.43	low

# 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

# 12.5 Results of PBT and vPvB assessment

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

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

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

# 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

: Yes.

Waste catalogue

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

# **Packaging**

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# **SECTION 13: Disposal considerations**

**Methods of disposal** 

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

Type of packaging	Waste catalogue	
Container	15 01 06	mixed packaging

**Special precautions** 

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

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(dicopper oxide, zinc oxide)	Not applicable.

### **Additional information**

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or

≤5 kg.

**Tunnel code** : (D/E)

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or **ADN** 

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **IMDG** 

**IATA** The environmentally hazardous substance mark may appear if required by other transportation

regulations.

user

14.6 Special precautions for : 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 Transport in bulk according to IMO instruments

: Not available.

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# **SECTION 15: Regulatory information**

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

# UK (GB) /REACH

**Annex XIV - List of substances subject to authorisation** 

**Annex XIV** 

None of the components are listed.

**Substances of very high concern** 

None of the components are listed.

### Ozone depleting substances

Not listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

**Category** 

P5c E1

# SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Acute Tox. 4, H302	Calculation method
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

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# **SECTION 16: Other information**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.

#### **Full text of classifications**

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 4	ACUTE TOXICITY - Category 4
A averation A avertor 1	CHORT TERM (ACUTE) ACHATIC HAZARD Cotonia 4

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

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

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

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3
Repr. 2 REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITISATION - Category 1

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

#### **History**

Date of issue/ Date of : 11/9/2022

revision

Date of previous issue : No previous validation

Prepared by : EHS Version : 1

#### **Disclaimer**

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