# SAFETY DATA SHEET



Date of issue/Date of revision : 9 June 2024 Version : 1.04

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

#### 1.1 Product identifier

Product name : AMERSHIELD WHITE RESIN

Product code : 00333766

Other means of identification

Not available.

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

**Product use** : Professional applications.

Use of the substance/

: Coating.

mixture

**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 +32-33606435

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

Flam. Liq. 3, H226 Skin Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 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.

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#### SECTION 2: Hazards identification

2.2 Label elements

**Hazard pictograms** 





Signal word Warning

**Hazard statements** : Flammable liquid and vapour.

> May cause an allergic skin reaction. May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention** : Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking. Avoid release to the environment.

: IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Response

**Storage** : 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.

P280, P210, P273, P304 + P312, P403 + P233, P501

**Hazardous ingredients** : n-butyl acetate

2-methoxy-1-methylethyl acetate

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

4-isocyanatosulphonyltoluene 2-hydroxyethyl methacrylate

Supplemental label

elements

articles

: Contains isocyanates. May produce an allergic reaction.

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

: Not applicable.

Special packaging requirements

**Containers to be fitted** 

with child-resistant

fastenings

: Not applicable.

Tactile warning of danger: Not applicable.

2.3 Other hazards

**Product meets the criteria** 

for PBT or vPvB

: 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.

**AMERSHIELD WHITE RESIN** 

English (GB)

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

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
<mark>r/-</mark> butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Wollastonite	EC: 237-772-5 CAS: 13983-17-0	≥10 - ≤25	Not classified.	-	[2]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≥5.0 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
ethyl 3-ethoxypropionate	REACH #: 01-2119463267-34 EC: 212-112-9 CAS: 763-69-9	≥1.0 - ≤5.0	Flam. Liq. 3, H226 EUH066	EUH066: C ≥ 20%	[1] [2]
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤1.0	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Hydrocarbons, C10-C13, aromatics, >1% naphthalene	EC: 926-273-4 CAS: 64742-94-5	<1.0	Carc. 2, H351 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	EUH066: C ≥ 20%	[1] [2]
Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	REACH #: 01-2119458049-33 EC: 919-446-0 CAS: 64742-82-1	≤0.30	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) (inhalation) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	Carc. 1B, H350: C ≥ 25% EUH066: C ≥ 20%	[1] [2]
pentane-2,4-dione	REACH #: 01-2119458968-15 EC: 204-634-0 CAS: 123-54-6 Index: 606-029-00-0	≤0.30	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331	ATE [Oral] = 570 mg/kg ATE [Dermal] = 790 mg/kg ATE [Inhalation (vapours)] = 5.1 mg/l	[1] [2]
4-isocyanatosulphonyltoluene	REACH #: 01-2119980050-47 EC: 223-810-8	≤0.30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥	[1]

**Europe** 

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AMERSHIEL	.D WHITE RESIN		

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

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		CAS: 4083-64-1 Index: 615-012-00-7		STOT SE 3, H335 EUH014	5% STOT SE 3, H335: C ≥ 5%	
2	-hydroxyethyl methacrylate	EC: 212-782-2 CAS: 868-77-9 Index: 607-124-00-X	≤0.30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1] [2]
p	1,5 ,	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.30	Repr. 2, H361fd	-	[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.

#### Type

- [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** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

**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 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**: No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin

reaction.

**Ingestion** : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

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**AMERSHIELD WHITE RESIN** 

#### SECTION 4: First aid measures

**Eye contact** : No specific data.

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatique dizziness/vertigo unconsciousness

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

irritation redness dryness cracking

: No specific data. Ingestion

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

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

quantities have been ingested or inhaled.

: No specific treatment. Specific treatments

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

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

Hazards from the substance or mixture : 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 harmful 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

Special precautions 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 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.

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#### 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. Avoid breathing 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 nonemergency 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.

#### 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.

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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

**Special provisions** 

: 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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.4 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

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

#### **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 ingest. Avoid breathing vapour or mist. 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.

# 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

: Do not store above the following temperature: 50°C (122°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.

Precautions should be taken to minimise exposure to atmospheric humidity or water.  $CO_2$  will be formed, which, in closed containers, could result in pressurisation.

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#### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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

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).

#### 8.1 Control parameters

#### **Occupational exposure limits**

English (GB)

Product/ingredient name	Exposure limit values			
<mark>γ</mark> -butyl acetate	EU OEL (Europe, 1/2022).			
	STEL: 150 ppm 15 minutes.			
	STEL: 723 mg/m³ 15 minutes.			
	TWA: 241 mg/m³ 8 hours.			
	TWA: 50 ppm 8 hours.			
Wollastonite	ACGIH TLV (United States, 7/2023).			
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction			
2-methoxy-1-methylethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin.			
	STEL: 550 mg/m³ 15 minutes.			
	STEL: 100 ppm 15 minutes.			
	TWA: 275 mg/m³ 8 hours.			
	TWA: 50 ppm 8 hours.			
ethyl 3-ethoxypropionate	IPEL (-).			
	TWA: 50 ppm			

**Europe** 

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

Hydrocarbons, C10-C13, aromatics, >1% naphthalene TWA: 8 ppm TWA: 50 mg/m<sup>3</sup>

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, EU OEL (Europe). cyclics, aromatics (2-25%) > 0.1% cumene

pentane-2,4-dione

2-hydroxyethyl methacrylate

STEL: 100 ppm EU OEL (Europe).

> TWA: 300 mg/m3 Form: Vapour TWA: 52 ppm Form: Vapour

ACGIH TLV (United States, 7/2023). Absorbed through skin.

TWA: 25 ppm 8 hours.

IPEL (-, 10/2017). Absorbed through skin.

TWA: 1 ppm STEL: 3 ppm

#### **Recommended monitoring** procedures

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.

#### **DNELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
<mark>ଜ-</mark> butyl acetate	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	11 mg/m³	Workers	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
2-methoxy-1-methylethyl acetate	DNEL	Long term Inhalation	33 mg/m³	General population	Local
	DNEL	Long term Inhalation	33 mg/m³	General population	Systemic
	DNEL	Long term Oral	36 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	275 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	320 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	550 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
ethyl 3-ethoxypropionate	DNEL	Long term Dermal	102 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Oral	1.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	8.85 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	72.6 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	610 mg/m <sup>3</sup>	Workers	Systemic
Hydrocarbons, C10-C13,	DNEL	Long term Oral	2.1 mg/kg bw/day	General population	Systemic
aromatics, >1% naphthalene					

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# SECTION 8: Exposure controls/personal protection

	DMEL	Long term Inhalation	3.25 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	10.2 mg/m³	General population	Systemic
	DMEL	Long term Dermal	23.4 mg/kg bw/day	Workers	Systemic
	DMEL	Long term Dermal	42.4 mg/kg bw/day	General population	Systemic
Hydrocarbons, C9-C12, n-	DNEL	Long term Inhalation	330 mg/m³	Workers	Systemic
alkanes, isoalkanes, cyclics,					
aromatics (2-25%) > 0.1%					
cumene					
	DNEL	Long term Dermal	44 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	71 mg/m³	General population	Systemic
	DNEL	Long term Dermal	26 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
pentane-2,4-dione	DNEL	Long term Oral	7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	12 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	84 mg/m³	Workers	Systemic
4-isocyanatosulphonyltoluene	DNEL	Long term Oral	0.46 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.46 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.8 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.92 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.24 mg/m³	Workers	Systemic
2-hydroxyethyl methacrylate	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.39 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.45 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	4.9 mg/m <sup>3</sup>	Workers	Systemic
propylidynetrimethanol	DNEL	Long term Oral	0.34 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.34 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.58 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.94 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.3 mg/m³	Workers	Systemic
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#### **PNECs**

Product/ingredient name	Type	Compartment Detail	Value	<b>Method Detail</b>
n-butyl acetate	-	Fresh water	0.18 mg/l	-
•	-	Marine water	0.018 mg/l	-
	-	Fresh water sediment	0.981 mg/kg	-
	-	Marine water sediment	0.0981 mg/kg	-
	-	Sewage Treatment Plant	35.6 mg/l	-
	-	Soil	0.0903 mg/kg	-
2-methoxy-1-methylethyl acetate	-	Fresh water	0.635 mg/l	-
	-	Marine water	0.0635 mg/l	-
	-	Fresh water sediment	3.29 mg/kg	-
	-	Marine water sediment	0.329 mg/kg	-
	-	Soil	0.29 mg/kg	-
	_	Sewage Treatment Plant	100 mg/l	-
ethyl 3-ethoxypropionate	-	Fresh water	0.0609 mg/l	Assessment Factors
, , ,	-	Marine water	0.00609 mg/l	Assessment Factors
	-	Fresh water sediment	0.419 mg/kg	-
	-	Marine water sediment	0.0419 mg/kg	-
	-	Soil	0.048 mg/kg	-
	-	Sewage Treatment Plant	50 mg/l	Assessment Factors
pentane-2,4-dione	-	Fresh water	0.026 mg/l	-
•	-	Fresh water sediment	0.155 mg/kg dwt	-
	-	Marine water	0.0026 mg/l	-
	-	Marine water sediment	0.0155 mg/kg dwt	-
	-	Soil	0.01582 mg/kg dwt	-
	-	Sewage Treatment Plant	1.32 mg/l	-

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Code : 00333766 Date of issue/Date of revision : 9 June 2024 AMERSHIELD WHITE RESIN **SECTION 8: Exposure controls/personal protection** 4-isocyanatosulphonyltoluene Fresh water 0.03 mg/l Assessment Factors Marine water 0.003 mg/l **Assessment Factors** 0.4 mg/l Assessment Factors Sewage Treatment Plant Fresh water sediment 0.172 mg/kg dwt **Equilibrium Partitioning** 

Marine water sediment

Soil

#### 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.

0.017 mg/kg dwt 0.017 mg/kg dwt Equilibrium Partitioning

Equilibrium Partitioning

#### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. 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

: Safety glasses with side shields. Use eye protection according to EN 166.

: 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.

**Gloves** 

: 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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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

Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140. 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. Mask type: full-face mask half-face mask Filter type: organic vapour filter (Type A) particulate filter P3 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

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

: Persons with a history of asthma, allergies or chronic or recurrent respiratory disease Restrictions on use

should not be employed in any process in which this product is used.

**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 : White.

Odour Characteristic. **Odour threshold** Not available.

Melting point/freezing point : May start to solidify at the following temperature: -50°C (-58°F) This is based on

data for the following ingredient: ethyl 3-ethoxypropionate. Weighted average:

-85.45°C (-121.8°F)

Initial boiling point and

boiling range

: >37.78°C

: Not available.

**Flammability** 

Upper/lower flammability or

explosive limits

Greatest known range: Lower: 1.05% Upper: 9.8% (ethyl 3-ethoxypropionate)

Closed cup: 43.33°C Flash point

**Auto-ignition temperature** 

Ingredient name	°C	<b>F</b>	Method
methoxy-1-methylethyl acetate	333	631.4	DIN 51794

**Decomposition temperature** 

pН

Stable under recommended storage and handling conditions (see Section 7).

Not applicable. insoluble in water. **Viscosity** Kinematic (40°C): >21 mm<sup>2</sup>/s

Solubility(ies)

Media	Result
cold water	Not soluble

Water Solubility at room

temperature

: 2.2 g/l

Partition coefficient: n-octanol/ : Not applicable.

water

: 2.2 kPa (16.3 mm Hg) Vapour pressure : 0.91 (butyl acetate = 1) **Evaporation rate** 

Relative density

: Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted Vapour density

average: 4.2 (Air = 1)

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

vapour or dust with air is possible.

: Product does not present an oxidizing hazard. **Oxidising properties** 

**Particle characteristics** 

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

Median particle size : Not applicable.

9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : 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** : In a fire, hazardous decomposition products may be produced.

Refer to protective measures listed in sections 7 and 8.

**10.5 Incompatible materials**: Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water.

Uncontrolled exothermic reactions occur with amines and alcohols.

10.6 Hazardous decomposition products

: Depending on conditions, 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 <u>Acute toxicity</u>

Product/ingredient name	Result	Species	Dose	Exposure
<mark>ਯ</mark> -butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
·	LC50 Inhalation Vapour	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapour	Rat	30 mg/l	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
Reaction mass of bis	LD50 Dermal	Rat	>3170 mg/kg	-
(1,2,2,6,6-pentamethyl-4-piperidyl)				
sebacate and methyl				
1,2,2,6,6-pentamethyl-4-piperidyl sebacate				
	LD50 Oral	Rat - Male,	3230 mg/kg	-
Lividence who are C10 C12 are resting > 10/	I DEO Darmal	Female	> 2000	
Hydrocarbons, C10-C13, aromatics, >1% naphthalene	LD50 Dermal	Rabbit	>2000 mg/kg	-
·	LD50 Oral	Rat	>5000 mg/kg	-
Hydrocarbons, C9-C12, n-alkanes,	LD50 Oral	Rat	>15000 mg/kg	-
isoalkanes, cyclics, aromatics (2-25%) >				
0.1% cumene				
pentane-2,4-dione	LC50 Inhalation Vapour	Rat	5.1 mg/l	4 hours
	LD50 Dermal	Rat	790 mg/kg	-
	LD50 Oral	Rat	570 mg/kg	-
4-isocyanatosulphonyltoluene	LD50 Oral	Rat	2234 mg/kg	-
2-hydroxyethyl methacrylate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	5050 mg/kg	-

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# **SECTION 11: Toxicological information**

propylidynetrimethanol	LD50 Dermal	Rabbit	10 g/kg	-	
	LD50 Oral	Rat	14000 mg/kg	-	

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

#### **Acute toxicity estimates**

Route	ATE value	
Dermal Inhalation (vapours)	458942.11 mg/kg 2962.79 mg/l	

#### **Irritation/Corrosion**

#### Conclusion/Summary

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

**Sensitisation** 

Conclusion/Summary

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

**Mutagenicity** 

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

**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
p-butyl acetate 2-methoxy-1-methylethyl acetate Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Narcotic effects
4-isocyanatosulphonyltoluene	Category 3	-	Respiratory trac

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
√ydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	Category 1	inhalation	central nervous system (CNS)

#### **Aspiration hazard**

Product/ingredient name	Result
Hydrocarbons, C10-C13, aromatics, >1% naphthalene Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
(2-25%) > 0.1% cumene	

Information on likely routes of exposure

: Not available.

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## **SECTION 11: Toxicological information**

Potential acute health effects

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Ingestion : Can cause central nervous system (CNS) depression.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin

reaction.

Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Ingestion : No specific data.

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

irritation redness dryness cracking

Eye contact : No specific data.

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** 

: Not available.

effects

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.

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/ or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to

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# **SECTION 11: Toxicological information**

permanent respiratory disability. Moisture-sensitive material. Avoid contact with skin and clothing.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<mark>ଜ</mark> -butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
ethyl 3-ethoxypropionate	Acute LC50 60.9 mg/l	Fish	96 hours
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	EC50 1.68 mg/l	Algae	72 hours
	LC50 0.9 mg/l	Fish	96 hours
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	Chronic NOEC 0.097 mg/l Fresh water	Daphnia	21 days
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	
2-methoxy-1-methylethyl acetate	-	83 % - Readily - 28 days	-	
Hydrocarbons, C10-C13, aromatics, >1% naphthalene	-	60.74 % - 28 days	-	
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	OECD 301 F 301F Ready Biodegradability - Manometric Respirometry Test	75 % - Readily - 28 days	-	

#### **Conclusion/Summary**

: There are no data available on the mixture itself.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
p-butyl acetate	-	-	Readily
2-methoxy-1-methylethyl acetate	-	-	Readily
ethyl 3-ethoxypropionate	-	-	Readily
Hydrocarbons, C10-C13, aromatics, >1%	-	-	Readily
naphthalene			_
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	-	-	Readily

#### 12.3 Bioaccumulative potential

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## **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
p-butyl acetate	2.3	-	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
ethyl 3-ethoxypropionate	1.47	-	Low
Hydrocarbons, C10-C13, aromatics, >1% naphthalene	>4	99 to 5780	High
pentane-2,4-dione	0.68	-	Low
2-hydroxyethyl methacrylate	0.42	-	Low
propylidynetrimethanol	-0.47	-	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 Endocrine disrupting properties

Not available.

#### 12.7 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**

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

#### **European waste catalogue (EWC)**

Waste code	Waste designation
08 01 99	wastes not otherwise specified

#### **Packaging**

**Methods of disposal** 

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

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# **SECTION 13: Disposal considerations**

**Special precautions** 

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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.

# 14. Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID 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	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

**ADR/RID** : None identified.

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

: The product is only regulated as an environmentally hazardous substance when transported in tank **ADN** 

vessels.

**IMDG** : None identified. **IATA** : None identified.

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 Maritime transport in bulk according to IMO

instruments

: Not applicable.

### **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 authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

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## **SECTION 15: Regulatory information**

Annex XVII - Restrictions : Not applicable.

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

**Explosive precursors**: Not applicable.

#### Ozone depleting substances (1005/2009/EU)

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

Category

P5c

**15.2 Chemical safety** : No Chemical Safety Assessment has been carried out.

assessment

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

Indicates information that has changed from previously issued version.

#### **Abbreviations and acronyms**

ATE = Acute Toxicity Estimate

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

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

#### Full text of abbreviated H statements

<b>F</b> 226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
	1
H334	May cause allergy or asthma symptoms or breathing difficulties if
	inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn
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# **SECTION 16: Other information**

	child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH014	Reacts violently with water.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3		
Acute Tox. 4	ACUTE TOXICITY - Category 4		
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1		
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1		
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2		
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3		
Asp. Tox. 1	ASPIRATION HAZARD - Category 1		
Carc. 1B	CARCINOGENICITY - Category 1B		
Carc. 2	CARCINOGENICITY - Category 2		
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2		
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3		
Repr. 2	REPRODUCTIVE TOXICITY - Category 2		
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1		
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2		
Skin Sens. 1	SKIN SENSITISATION - Category 1		
Skin Sens. 1A	SKIN SENSITISATION - Category 1A		
STOT RE 1	SPECIFIC TARGET ORGAN ŤOXICITY - REPEATED EXPOSURE -		
	Category 1		
STOT SE 3	SPEČIFÍC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -		
	Category 3		
	1		

#### **History**

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#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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