

## Barrier 80 S Comp A

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

1.1 Product identifier	
Product name	: Barrier 80 S Comp A
UFI	: WH2D-4333-300X-1DYD
Product code	: 37942
Product description	: Paint.
Product type	: Liquid.
Other means of identification	: Not available.

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

Use in coatings - Industrial use Use in coatings - Professional use

#### 1.3 Details of the supplier of the safety data sheet

Jotun A/S	Jotun Paints (Europe) Ltd.
P.O.Box 2021	Stather Road
3202 Sandefjord	Flixborough, Scunthorpe
Norway	North Lincolnshire
Tel: + 47 33 45 70 00	DN15 8RR
Fax: +47 33 45 72 42	England
E-mail: SDSJotun@jotun.no	, , , , , , , , , , , , , , , , , , ,
0,	Tel: +44 17 24 40 00 00
	Fax: +44 17 24 40 01 00
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#### **1.4 Emergency telephone number**

#### National advisory body/Poison Centre

Telephone number: Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.Supplier: +47 33 45 70 00 Jotun Norway (head office)

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### Classification according to UK CLP/GHS

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 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

## **SECTION 2: Hazards identification**

Hazard pictograms	:	
Signal word	:	Warning.
Hazard statements	:	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements		
General	:	Not applicable.
Prevention	:	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapour.</li> </ul>
Response	:	<ul> <li>P391 - Collect spillage.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	:	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	EUH205 - Contains epoxy constituents. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	ts
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 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	:	None known.

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

	Mixture		Ole settle stime	-
Product/ingredient name	Identifiers	%	Classification	Туре
zínc	EC: 231-175-3 CAS: 7440-66-6	≥50 - ≤75	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
epoxy resin (MW 700-1200)	CAS: 25036-25-3	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
epoxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
glycidyl ether of 3-alkyl phenol	REACH #: 01-2119982994-15 EC: 500-210-7 CAS: 68413-24-1	<1	Skin Sens. 1, H317	[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.

<u>Type</u>

[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.

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

4.1 Description of first aid me	easures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains epoxy resin (MW 700-1200), epoxy resin (MW ≤ 700), glycidyl ether of 3-alkyl phenol. May produce an allergic reaction.

#### Over-exposure signs/symptoms

р м	Adverse symptoms may include the following: pain or irritation vatering edness
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SECTION 4: First aid measures		
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms may include the following: irritation redness	
Ingestion	: No specific data.	
4.3 Indication of any imn	nediate medical attention and special treatment needed	
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>	

**Specific treatments** : No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefigh	tin	g measures	
5.1 Extinguishing media			
Suitable extinguishing media	1	Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.	
Unsuitable extinguishing media	:	Do not use water jet.	
5.2 Special hazards arising f	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 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	:	ecomposition products may include the following materials: arbon dioxide arbon monoxide netal 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 mode.	

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	otec	tive equipm	nent and emergenc	y procedures				
For non-emergency personnel		Evacuate su entering. Do No flares, sn Provide adeo	nall be taken involvin prounding areas. Ke p not touch or walk th moking or flames in h quate ventilation. W Put on appropriate	eep unnecessary a nrough spilt materi nazard area. Avoi ear appropriate re	and unprotected   ial. Shut off all ig d breathing vapo spirator when ve	perso inition our or	onnel fro n source mist.	
For emergency responders	<b>mergency responders</b> : 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	; 	and sewers. pollution (se	rsal of spilt material a Inform the relevant wers, waterways, so onment if released in	authorities if the p il or air). Water po	product has caus clluting material.	ed er	nvironm	ental
Date of issue/Date of revision		: 21.04.2023	Date of previous issue	: 30.03.2023	Ver	sion	:1.02	5/18

## SECTION 6: Accidental release measures

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 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 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

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. 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.

#### Seveso Directive - Reporting thresholds

#### Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne
E1	100 tonne	200 tonne

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See Technical Data Sheet / packaging for further information.

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

#### 7.3 Specific end use(s)

Recommendations Industrial sector specific solutions

- : Not available.
- : Not available.

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
<b>x</b> ylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 441 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 560 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m <sup>3</sup> 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m <sup>3</sup> 8 hours.

#### **Biological exposure indices**

No exposure indices known.

# procedures

**Recommended monitoring** : 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**

DNEL DNEL DNEL DNEL DNEL	Long term Oral Long term Inhalation Long term Inhalation Long term Dermal	0.83 mg/ kg bw/day 2.5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 83 mg/kg bw/day	General population General population Workers General	Systemic Systemic Systemic Systemic
DNEL DNEL	Long term Inhalation Long term Inhalation Long term Dermal	kg bw/day 2.5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 83 mg/kg	General population Workers General	Systemic Systemic
DNEL DNEL	Inhalation Long term Inhalation Long term Dermal	2.5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 83 mg/kg	General population Workers General	Systemic
DNEL	Inhalation Long term Inhalation Long term Dermal	5 mg/m <sup>3</sup> 83 mg/kg	Workers General	Systemic
DNEL	Inhalation Long term Dermal	83 mg/kg	General	
	Long term Dermal		-	Systemic
			-	Systemic
DNEL	Long torm Dormal		n an ulation	-
DNEL	Long torm Dormal		population	
1	Long term Dermal	83 mg/kg	Workers	Systemic
1		bw/day		
DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Local
	Inhalation		population	
DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
	Inhalation		population	
DNEL	Short term	260 mg/m <sup>3</sup>		Systemic
	Inhalation		population	
DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Local
	Inhalation			
DNEL	Long term Oral	12.5 mg/	General	Systemic
			population	
DNEL	Long term	65.3 mg/m <sup>3</sup>		Systemic
	Inhalation		population	
DNEL	Long term Dermal			Systemic
		bw/day	population	
	DNEL DNEL DNEL DNEL DNEL	Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term Inhalation DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term	DNELLong term Inhalation65.3 mg/m³DNELShort term Inhalation260 mg/m³DNELShort term Inhalation260 mg/m³DNELShort term Inhalation221 mg/m³DNELLong term Inhalation221 mg/m³DNELLong term Oral12.5 mg/ kg bw/dayDNELLong term Inhalation65.3 mg/m³DNELLong term Inhalation125 mg/kg bw/day	DNELLong term Inhalation65.3 mg/m³General populationDNELShort term Inhalation260 mg/m³General populationDNELShort term Inhalation260 mg/m³General populationDNELShort term Inhalation260 mg/m³General populationDNELLong term Inhalation221 mg/m³WorkersDNELLong term Oral12.5 mg/ kg bw/dayGeneral populationDNELLong term Oral12.5 mg/m³General populationDNELLong term Inhalation65.3 mg/m³General populationDNELLong term Inhalation125 mg/kg bw/dayGeneral population

1		212 mg/kg		Systemic
DNEL	Long term	bw/day 221 mg/m³	Workers	Systemic
DNEL	Short term	442 mg/m³	Workers	Local
DNEL	Short term	442 mg/m³	Workers	Systemic
DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
DNEL	Long term Inhalation	43.9 mg/m <sup>3</sup>	General	Systemic
DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	Long term Inhalation	-	Workers	Systemic
	Short term Inhalation	553.5 mg/ m³	Workers	Local
	Inhalation	m³		Systemic
		bw/day		Systemic
	Inhalation	-		Systemic
DNEL	Long term Dermai	83 mg/kg bw/day	population	Systemic
DNEL	Long term Inhalation	2.5 mg/m³	General population	Systemic
DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
DNEL	Long term	0.5 mg/m³	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
		bw/day	population	Systemic
	Inhalation	-	population	Systemic
	Inhalation	-		Systemic
		bw/day		Systemic
	Inhalation	Ū		Local
	Inhalation	-		Local Systemic
	Inhalation	-		
	-	bw/day	population	Systemic Systemic
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELInhalation Short term Inhalation DNELInhalation Long term OralDNELLong term Inhalation DNELLong term DermalDNELLong term Inhalation DNELShort term Inhalation DNELDNELLong term Inhalation DNELLong term Inhalation DNELDNELLong term Inhalation DNELLong term Inhalation DNELDNELLong term Inhalation DNELLong term Inhalation DNELDNELLong term Inhalation DNELLong term OralDNELLong term Inhalation DNELLong term OralDNELLong term Inhalation DNELLong term Inhalation DNELDNELLong term Inhalation DNELLong term Inhalation DNELDNELLong term Inhalation DNELLong term Inhalation DNELDNELLong term OralDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELShort term Inhalation Inhalation DNELDNELShort term Inhalation Inhalation DNELDNELShort term Inhalation Inha	DNELShort term Inhalation442 mg/m³DNELShort term Inhalation442 mg/m³DNELLong term Oral33 mg/kg bw/dayDNELLong term Dermal78 mg/kg bw/dayDNELLong term Dermal78 mg/kg bw/dayDNELLong term Dermal183 mg/kg bw/dayDNELLong term Dermal869 mg/m³Inhalation553.5 mg/ m³DNELShort term Inhalation553.5 mg/ m³DNELShort term Inhalation553.5 mg/ m³DNELLong term Dermal83 mg/kg bw/dayDNELLong term Dermal83 mg/kg bw/dayDNELLong term Dermal83 mg/kg bw/dayDNELLong term Dermal83 mg/kg bw/dayDNELLong term Oral0.83 mg/ kg bw/dayDNELLong term Dermal83 mg/kg bw/dayDNELLong term Dermal16 mg/kg bw/dayDNELLong term	DNELShort term Inhalation442 mg/m³WorkersDNELShort term Inhalation442 mg/m³WorkersDNELLong term Oral33 mg/kg bw/dayGeneral populationDNELLong term Dermal78 mg/kg bw/dayGeneral populationDNELLong term Dermal78 mg/kg bw/dayGeneral populationDNELLong term Dermal83 mg/kg bw/dayWorkersDNELLong term Inhalation553.5 mg/ m³WorkersDNELShort term Inhalation553.5 mg/ m³WorkersDNELShort term Inhalation53.5 mg/m³WorkersDNELLong term Dermal83 mg/kg bw/dayWorkersDNELLong term Dermal83 mg/kg bw/dayGeneral populationDNELLong term Dermal83 mg/kg bw/dayGeneral populationDNELLong term Orral0.83 mg/ kg bw/dayGeneral populationDNELLong term Orral0.83 mg/ kg bw/dayGeneral populationDNELLong term Orral0.83 mg/wg by orkersGeneral populationDNELLong term Dermal83 mg/kg by orkersGeneral populationDNELLong term Dermal83 mg/kg by orkersGeneral populationDNELLong term Dermal83 mg/kg by orkersGeneral populationDNELLong term Dermal83 mg/kg bw/dayGeneral populationDNELLong term Dermal83 mg/kg bw/dayGeneral population

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

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		DNEL	Long term Dermal	bw/day 0.75 mg/ kg bw/day	population Workers	Systemic	
		DNEL	Long term Inhalation	0.87 mg/m <sup>3</sup>	General population	Systemic	
		DNEL	Long term Inhalation	4.93 mg/m <sup>3</sup>	Workers	Systemic	
	glycidyl ether of 3-alkyl phenol	DNEL	Long term Dermal	0.21 mg/ kg bw/day	Workers	Systemic	
		DNEL	Long term Inhalation	0.73 mg/m³	Workers	Systemic	

#### **PNECs**

Product/ingredient name	<b>Compartment Detail</b>	Value	Method Detail
xylene	Fresh water	0.327 mg/l	-
	Marine	0.327 mg/l	-
	Sewage Treatment	6.58 mg/l	-
	Plant	-	
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg dwt	-
1-methoxy-2-propanol	Fresh water	10 mg/l	-
, , , , , , , , , , , , , , , , , , ,	Marine	1 mg/l	-
	Sewage Treatment	100 mg/l	-
	Plant	Ũ	
	Fresh water sediment	52.3 mg/kg dwt	-
	Marine water sediment	5.2 mg/kg dwt	-
	Soil	5.49 mg/kg dwt	-
zinc oxide	Fresh water	20.6 µg/l	-
	Marine	6.1 µg/l	-
	Sewage Treatment	52 µg/l	-
	Plant	10	
	Fresh water sediment	117.8 mg/kg dwt	-
	Marine water sediment	56.5 mg/kg dwt	-
	Soil	35.6 mg/kg dwt	-
ethylbenzene	Fresh water	0.1 mg/l	-
	Marine	0.01 mg/l	-
	Sewage Treatment	9.6 mg/l	-
	Plant	U	
	Fresh water sediment	13.7 mg/kg dwt	-
	Soil	2.68 mg/kg dwt	-
	Secondary Poisoning	20 mg/kg	-
epoxy resin (MW ≤ 700)	Fresh water	0.006 mg/l	-
	Marine	0.0006 mg/l	-
	Sewage Treatment	10 mg/l	-
	Plant		
	Fresh water sediment	0.996 mg/l	-
	Marine water sediment	0.0996 mg/l	-
	Soil	0.196 mg/l	-

#### **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

### **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	: Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

#### Gloves

Wear suitable gloves tested to ISO 374-1:2016.

Not recommended, gloves(breakthrough time) < 1 hour: neoprene (> 0.35 mm), butyl rubber (> 0.4 mm) May be used, gloves(breakthrough time) 4 - 8 hours: PVC (> 0.5 mm)

Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber (> 0.4 mm), 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

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.

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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>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.</li> </ul>
Respiratory protection	: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

### 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	: Grey

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

<b>j</b>	-	
Odour	1	Characteristic.
Odour threshold	1	Not applicable.
Melting point/freezing point	÷	Not applicable.
Initial boiling point and boiling range	1	Lowest known value: 120.17°C (248.3°F) (1-methoxy-2-propanol). Weighted average: 131.72°C (269.1°F)
Flammability	:	Not applicable.
Upper/lower flammability or explosive limits	:	0.8 - 13.74%
Flash point	÷	Closed cup: 25°C (77°F)
Auto-ignition temperature	:	Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).
Decomposition temperature	:	Not available.
рН	:	Not applicable.
Viscosity	:	Kinematic (40°C): >20.5 mm²/s
Partition coefficient: n-octanol/ water	:	Not available.
Vapour pressure	:	Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 1.01 kPa (7.58 mm Hg) (at 20°C)
Evaporation rate	:	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.79compared with butyl acetate
Density	÷	2.574 g/cm³ @ 20 °C
Vapour density	1	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.54 (Air = 1)
Explosive properties	1	Not available.
Oxidising properties	1	Not available.
Particle characteristics		
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	: Stable under recommended storage and handling conditions (see Section 7).			
10.3 Possibility of 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.			
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	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.			

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption

Barrier 80 S Comp A

## **SECTION 11: Toxicological information**

#### through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains epoxy resin (MW 700-1200), epoxy resin (MW ≤ 700), glycidyl ether of 3-alkyl phenol. May produce an allergic reaction.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>x</b> ylene	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	20 g/kg	-
,	LD50 Oral	Mouse	15600 mg/kg	-

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Barrier 80 S Comp A	N/A	20404.9	N/A	269.9	N/A
xylene	4300	1100	N/A	20	N/A
1-methoxy-2-propanol	6600	13000	N/A	N/A	N/A
ethylbenzene	3500	N/A	N/A	17.8	N/A

#### Irritation/Corrosion

inc		Species	Score	Exposure	Observation
	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
ylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
-	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
poxy resin (MW 700-1200)	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-
-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
inc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
epoxy resin (MW ≤ 700)	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Rabbit	-	500	-

## **SECTION 11: Toxicological information**

milligrams

Product/ingredient name	Route of exposure	Species	Result
epoxy resin (MW 700-1200)	skin	Mammal - species unspecified	Sensitising
epoxy resin (MW ≤ 700)	skin	Mammal - species unspecified	Sensitising
glycidyl ether of 3-alkyl phenol	skin	Mammal - species unspecified	Sensitising

#### **Mutagenicity**

No known significant effects or critical hazards.

#### **Carcinogenicity**

No known significant effects or critical hazards.

#### **Reproductive toxicity**

**Developmental effects** 

**Fertility effects** 

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

#### **Teratogenicity**

No known significant effects or critical hazards.

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

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects

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

Product/ingredient name	Category	Route of exposure	Target organs
<b>⊭</b> thylbenzene	Category 2	-	hearing organs

#### **Aspiration hazard**

Produ	uct/ingredient name	Re	sult
<mark>xy</mark> lene ethylbenzene		ASPIRATION HAZARD ASPIRATION HAZARD	
Potential acute health eff	<u>ects</u>		
Eye contact	: Causes serious eye irritation	l.	
Inhalation	: No known significant effects	or critical hazards.	
Skin contact	: Causes skin irritation. May	cause an allergic skin reaction.	
Ingestion	: No known significant effects	or critical hazards.	
Symptoms related to the	physical, chemical and toxicologi	cal characteristics	
Eye contact	: Adverse symptoms may incl pain or irritation watering redness	ude the following:	
Inhalation	: No specific data.		
Skin contact	: Adverse symptoms may incl irritation redness	ude the following:	
Ingestion	: No specific data.		
General	: Once sensitized, a severe al to very low levels.	lergic reaction may occur whe	n subsequently exposed
Other information	: None identified.		
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## **SECTION 12: Ecological information**

#### 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
zinc	Acute LC50 330 µg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		magna	
	Acute LC50 0.78 mg/l Fresh water	Fish	96 hours
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Daggerblade	48 hours
		grass shrimp - Palaemonetes	
		pugio	
	Acute LC50 13400 µg/l Fresh water	Fish - Fathead minnow -	96 hours
		Pimephales promelas	
zinc oxide	Acute LC50 1.1 ppm Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
	Chronic NOEC 0.02 mg/l Fresh water	Algae - Green algae -	72 hours
		Pseudokirchneriella subcapitata	
		- Exponential growth phase	
ethylbenzene	Acute EC50 7700 µg/l Marine water	Algae - Diatom - Skeletonema	96 hours
		costatum	
	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
epoxy resin (MW ≤ 700)	Acute EC50 1.4 mg/l	Daphnia	48 hours
	Acute LC50 3.1 mg/l	Fish - pimephales promelas	96 hours
	Chronic NOEC 0.3 mg/l	Fish	21 days

Conclusion/Summary

: This material is very toxic to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

#### **Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Zínc xylene	-	-	Not readily Readily
zinc oxide	-	-	Not readily
ethylbenzene epoxy resin (MW ≤ 700)	-	-	Readily Not readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	8.1 to 25.9	low
1-methoxy-2-propanol	<1	-	low
zinc oxide	-	28960	high
ethylbenzene	3.6	-	low
epoxy resin (MW ≤ 700)	2.64 to 3.78	31	low

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
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.

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## **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 dangerous substances

#### 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.

Type of packaging		Waste catalogue
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances
Special precautions	taken when Empty conta residues ma container. I thoroughly ii	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with ays, drains and sewers.

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

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	Paint	Paint	Paint. Marine pollutant (zinc)	Paint
14.3 Transport hazard class(es)	3	3		3
14.4 Packing group		111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

**Additional information** 

ADR/RID

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

Hazard identification number 30 Tunnel code (D/E)

SECTION 14: Transport information		
ADN	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.	
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-E, <u>S-E</u>	
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.	
14.6 Special precautions for user	: <b>Transport within user's premises:</b> 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.	
<b>SECTION 15: Regula</b>	tory 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.

#### **Prior Informed Consent (PIC)**

Not listed.

#### Persistent Organic Pollutants 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	
EU regulations	
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution	: Not listed

prevention and control) -Water

International regulations

Date of issue/Date of revision

## **SECTION 15: Regulatory information**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

15.2 Chemical safety assessment

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

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

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>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</li> </ul>
	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. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	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

<b>⊮</b> 225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

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

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	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Sens. 1B	SKIN SENSITISATION - Category 1B	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
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#### Notice to reader

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