## SAFETY DATA SHEET



TC 508 PA White

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

1.1 Product identifier

Product name : TC 508 PA White

Product code : G9127800
Product description : Not available.

Product type : Liquid.

Other means of : Not available.

identification

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

**Identified uses** 

Not applicable.

**Uses advised against** 

Not applicable.

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

Scott Bader ME Jebel Ali Dubai

United Arab Emirates. Tel: +971 481 50222

e-mail address of person : S responsible for this SDS

: SDS@scottbader.com

## 1.4 Emergency telephone number

**National advisory body/Poison Centre** 

**Supplier** 

**Telephone number** : +44 1865 407333 (NCEC) 24h

## **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 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 (heal

STOT RE 1, H372 (hearing organs)

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.

#### 2.2 Label elements

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#### **Hazard pictograms**







Signal word : Danger

**Hazard statements** H226 - Flammable liquid and vapour.

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.

H361d - Suspected of damaging the unborn child.

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

(hearing organs)

H412 - Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

**Prevention** 

: Obtain special instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**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.

**Hazardous ingredients** 

cobalt bis(2-ethylhexanoate)

maleic anhydride

Supplemental label

elements

Not applicable.

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

: Not applicable.

## Special packaging requirements

Containers to be fitted with child-resistant

: Not applicable.

fastenings

**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.

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

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
styrene	REACH #: 01-2119457861-32 EC: 202-851-5 CAS: 100-42-5 Index: 601-026-00-0	≥20 - ≤30	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (gases)] = 2770 ppm	[1]
oxybenzone	EC: 205-031-5 CAS: 131-57-7	≤0.3	Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 1	[1]
1,2,4-trimethylbenzene	EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≤0.1	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	ATE [Inhalation (vapours)] = 18 mg/ I	[1] [2]
cobalt bis(2-ethylhexanoate)	REACH #: 01-2119524678-29 EC: 205-250-6 CAS: 136-52-7	<0.1	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360F Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤0.1	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
(2-methoxymethylethoxy) propanol	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤0.1	Not classified.  See Section 16 for	-	[2]
			the full text of the H statements declared above.		

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

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.

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

### 4.1 Description of first aid measures

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 it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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. 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. 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 <u>Over-exposure signs/symptoms</u>

Eye contact

: Adverse symptoms may include the following: pain or irritation

watering redness

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced foetal weight increase in foetal deaths skeletal malformations

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

Skin contact

: Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion

: Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

## 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.

**Specific treatments**: No specific treatment.

## **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 dioxide carbon monoxide metal oxide/oxides

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

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 non-emergency personnel".

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

## 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 non-combustible, 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.

## 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

## 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. 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.

## Seveso Directive - Reporting thresholds

**Danger criteria** 

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

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

## 8.1 Control parameters

### Occupational exposure limits

Product/ingredient name	Exposure limit values
1,2,4-trimethylbenzene	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours.
1-methoxy-2-propanol	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values  TWA: 100 mg/m² 8 hours.  TWA: 375 mg/m³ 8 hours.  STEL: 150 ppm 15 minutes.  STEL: 568 mg/m³ 15 minutes.
(2-methoxymethylethoxy)propanol	EU OEL (Europe, 1/2022). [(2-Methoxymethylethoxy)-propanol] Absorbed through skin. Notes: list of indicative occupational exposure limit values  TWA: 50 ppm 8 hours.  TWA: 308 mg/m³ 8 hours.

#### **Biological exposure indices**

No exposure indices known.

## 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/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
styrene	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	306 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	406 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	85 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	174.25 mg/ m³	General population	Systemic

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

	DNEL	Short term Inhalation	182.75 mg/ m³	[Consumers] General population	Local
	DNEL	Long term Dermal	343 mg/kg	[Consumers] General	Systemic
	5,151		bw/day	population [Consumers]	
	DNEL	Long term Inhalation	10.2 mg/m <sup>3</sup>	General population [Consumers]	Systemic
	DNEL	Long term Oral	2.1 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	7.7 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1 mg/m³	General population	Local
	DNEL	Long term Inhalation	1 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	10 mg/m³	General population	Local
	DNEL	Short term Inhalation	10 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	85 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation Long term	100 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation Short term	100 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Inhalation Long term Dermal	343 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 406 mg/kg bw/day	population Workers	Systemic
oxybenzone	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	6.8 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	20 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	27.7 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	39 mg/kg bw/day	Workers	Systemic
1,2,4-trimethylbenzene	DNEL	Long term Oral	15 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	29.4 mg/m³	General population	Local
	DNEL	Long term Inhalation	29.4 mg/m <sup>3</sup>	population	Local
	DNEL	Short term Inhalation Long term	29.4 mg/m <sup>3</sup> 29.4 mg/m <sup>3</sup>	General population General	Systemic Systemic
	DNEL	Inhalation Short term	100 mg/m <sup>3</sup>	population Workers	Local
	DNEL	Inhalation Long term	100 mg/m³	Workers	Local
	DNEL	Inhalation Short term	100 mg/m³	Workers	Systemic
	DNEL	Inhalation Long term Inhalation	100 mg/m³	Workers	Systemic
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ocomon o. exposu	ire controls/p	cisonal prote	Ction		
	DNEL	Long term Dermal	9512 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 16171 mg/	population Workers	Systemic
	DINCE	Long term Dermai	kg bw/day	VVOIKEIS	Systemic
cobalt bis(2-ethylhexanoat	e) DNEL	Long term	37 µg/m³	General	Local
		Inhalation		population	
	DNEL	Long term Oral	175 µg/kg	General	Systemic
	DATE		bw/day	population	
	DNEL	Long term	235.1 µg/ m³	Workers	Local
maleic anhydride	DNEL	Inhalation Short term Dermal	0.04 mg/	Workers	Systemic
Infaleic affilydride	DINCE	Short term Dermai	kg bw/day	WOIKEIS	Systemic
	DNEL	Short term Dermal	0.04 mg/	Workers	Local
			cm²		
	DNEL	Long term Dermal	0.04 mg/	Workers	Systemic
	5,151		kg bw/day		
	DNEL	Long term Dermal	0.04 mg/ cm²	Workers	Local
	DNEL	Long term	0.4 mg/m <sup>3</sup>	Workers	Systemic
	BIVEE	Inhalation	O.4 mg/m	VVOIROIS	Cysternio
	DNEL	Long term	0.4 mg/m³	Workers	Local
		Inhalation		_	
	DNEL	Long term	0.05 mg/m <sup>3</sup>	General	Systemic
	האבו	Inhalation	0.06 mg/	population General	Systemic
	DNEL	Long term Oral	0.06 mg/ kg bw/day	population	Systemic
	DNEL	Long term	0.08 mg/m <sup>3</sup>		Local
	51122	Inhalation	o.oo mg/m	population	Local
	DNEL	Long term	0.081 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Long term	0.081 mg/	Workers	Systemic
	DNEL	Inhalation Short term Oral	m³ 0.1 mg/kg	General	Systemic
	DINEL	Short term Oral	bw/day	population	Systemic
	DNEL	Short term Dermal	0.1 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Long term Dermal	0.1 mg/kg	General	Systemic
	5,151		bw/day	population	
	DNEL	Short term Dermal	0.2 mg/kg	Workers	Systemic
	DNEL	Long term Dermal	bw/day 0.2 mg/kg	Workers	Systemic
	DIVLE	Long term berman	bw/day	VVOIREIS	Oysternic
	DNEL	Short term	0.2 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	0.2 mg/m <sup>3</sup>	Workers	Systemic
1 motheys 2 preparel	האבי	Inhalation	22 ma/ka	Conoral	Systemia
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term	43.9 mg/m <sup>3</sup>	General	Systemic
		Inhalation	3	population	^
	DNEL	Long term Dermal	78 mg/kg	General	Systemic
	DAIE!	Long to	bw/day	population	C. rata w= !=
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	369 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	, ,		, ,
	DNEL	Short term	553.5 mg/	Workers	Local
		Inhalation	m³		.
	DNEL	Short term	553.5 mg/	Workers	Systemic
(2-methoxymethylethoxy)p	ropanol DNEL	Inhalation Long term Oral	m³ 36 mg/kg	General	Systemic
1 ποιποληπιοιπηισιπολή)	DIVLE	Long tolli Olai	bw/day	population	Systemio
	DNEL	Long term	37.2 mg/m <sup>3</sup>	General	Systemic
1					<u> </u>
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## **SECTION 8: Exposure controls/personal protection**

	1			1
	Inhalation		population	
DNEL	Long term Dermal	121 mg/kg	General	Systemic
		bw/day	population	
DNEL	Long term Dermal	283 mg/kg	Workers	Systemic
		bw/day		
DNEL	Long term	308 mg/m <sup>3</sup>	Workers	Systemic
	Inhalation	•		

## **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
styrene	Fresh water	0.028 mg/l	-
	Marine water	0.0028 mg/l	-
	Fresh water sediment	0.614 mg/kg dwt	-
	Marine water sediment	0.0614 mg/kg dwt	-
	Soil	0.2 mg/kg dwt	-
	Sewage Treatment	5 mg/l	-
	Plant		
maleic anhydride	Fresh water	0.04281 mg/l	-
-	Marine water	0.004281 mg/l	-
	Fresh water sediment	0.334 mg/kg dwt	-
	Marine water sediment	0.0334 mg/kg dwt	-
	Soil	0.0415 mg/kg dwt	-
	Sewage Treatment	44.6 mg/l	-
	Plant		

#### 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**

**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 with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

## Skin protection Hand protection

: 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.

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

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

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** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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 : Not available.

Odour : Solvent

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and : Not available.

boiling range

Flammability : Not available.

Lower and upper explosion : Not available.

limit

Flash point : Closed cup: 32°C (89.6°F)

Decomposition temperature : Not available.pH : Not available.

Viscosity : Kinematic (40°C): >40 mm²/s

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure: Not available.Relative density: 1.1 to 1.2Vapour density: Not available.Explosive properties: Not available.Oxidising properties: Not available.

**Particle characteristics** 

Median particle size : Not applicable.

## SECTION 10: Stability and reactivity

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

**10.2 Chemical stability** : The product is stable.

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

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

10.4 Conditions to avoid

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

10.5 Incompatible materials

: Reactive or incompatible with the following materials:

oxidising materials

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

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

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
styrene	LC50 Inhalation Gas.	Rat	2770 ppm	4 hours
	LC50 Inhalation Vapour	Rat	11800 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	2650 mg/kg	-
oxybenzone	LD50 Oral	Rat	7400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapour	Rat	18000 mg/m <sup>3</sup>	4 hours
_	LD50 Oral	Rat	5 g/kg	-
cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
•	LD50 Oral	Rat	400 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-

**Conclusion/Summary** 

: Not available.

## **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)
TC 508 PA White	N/A	N/A	9336.7	39.8	N/A
styrene	2650	N/A	2770	11.8	N/A
oxybenzone	7400	N/A	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	N/A
maleic anhydride	400	2620	N/A	N/A	N/A
1-methoxy-2-propanol	6600	13000	N/A	N/A	N/A

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
styrene	Eyes - Mild irritant	Human	-	50 ppm	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
1-methoxy-2-propanol	Skin - Mild irritant	Rabbit	-	500 mg	-

**Conclusion/Summary** 

: Not available.

**Sensitisation** 

Conclusion/Summary

: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

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## **SECTION 11: Toxicological information**

: Not available. **Conclusion/Summary** 

**Reproductive toxicity** 

**Conclusion/Summary** : Not available.

**Teratogenicity** 

**Conclusion/Summary** : Not available. Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
styrene	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	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
styrene maleic anhydride	Category 1 Category 1		hearing organs respiratory system

#### **Aspiration hazard**

Product/ingredient name	Result
styrene 1,2,4-trimethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

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

of exposure

## Potential acute health effects

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

Inhalation : Harmful if inhaled. May cause respiratory irritation.

**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 toxicological characteristics

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

> pain or irritation watering redness

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced foetal weight increase in foetal deaths skeletal malformations

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

> irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

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## **SECTION 11: Toxicological information**

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

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

Potential delayed effects

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
styrene	Chronic NOAEL Dermal Chronic NOAEL Inhalation Gas.	Rat Rat	615 mg/kg 20 ppm	- 8 hours

Conclusion/Summary

: Not available.

General

Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels

Carcinogenicity

Mutagenicity

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

**Reproductive toxicity** 

: Suspected of damaging the unborn child.

#### 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
styrene	Acute EC50 4.9 mg/l	Algae	72 hours
	Acute EC50 78000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 4700 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 52 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 4020 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1.01 mg/l	Daphnia	21 days
oxybenzone	Chronic EC10 3.69 µg/l Marine water	Algae - Isochrysis galbana - Exponential growth phase	72 hours
	Chronic NOEC 90 µg/l Fresh water	Fish - Oryzias latipes - Adult	28 days
1,2,4-trimethylbenzene	Acute LC50 4910 μg/l Marine water	Crustaceans - Elasmopus pectenicrus - Adult	48 hours
	Acute LC50 7720 μg/l Fresh water	Fish - Pimephales promelas	96 hours
maleic anhydride	Acute LC50 230 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

Conclusion/Summary : Not available.

## 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

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## **SECTION 12: Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
styrene	-	-	Readily
oxybenzone	-	-	Not readily
cobalt bis(2-ethylhexanoate)	-	-	Not readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
styrene	0.35	13.49	low
oxybenzone	3.79	39 to 160	low
1,2,4-trimethylbenzene	3.63	243	low
cobalt bis(2-ethylhexanoate)	-	15600	high
maleic anhydride	-2.78	-	low
1-methoxy-2-propanol	<1	-	low
(2-methoxymethylethoxy)	0.004	-	low
propanol			

### **Legal entity**

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** 

**Packaging** 

Methods of disposal

: The classification of the product may meet the criteria for a hazardous waste.

: 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.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (styrene)	FLAMMABLE LIQUID, N.O.S. (styrene)	FLAMMABLE LIQUID, N.O.S. (styrene)	FLAMMABLE LIQUID, N.O.S. (styrene)
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.

### **Additional information**

ADR/RID : Tunnel code (D/E)

ADN : The product is only regulated as an environmentally hazardous substance when

transported in tank vessels.

: The environmentally hazardous substance mark may appear if required by other

transportation regulations.

14.6 Special precautions for

user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <a href="International regulations">International regulations</a>

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.

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## **SECTION 15: Regulatory information**

## **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

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

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

EUH statement = CLP-specific Hazard statement

N/A = Not available

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

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 1, H372 (hearing organs)	Calculation method
Aquatic Chronic 3, H412	Calculation method

### Full text of abbreviated H statements

- un toxt or an	NOTIFICATION OF THE PROPERTY O
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360F	May damage fertility.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

## Full text of classifications [CLP/GHS]

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## **SECTION 16: Other information**

Acute Tox. 4 ACUTE TOXICITY - Category 4
Aquatic Acute 1 SHORT-TERM (ACUTE) 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 Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 3

Repr. 1B

Repr. 2

Resp. Sens. 1

Skin Corr. 1B

Skin Irrit. 2

FLAMMABLE LIQUIDS - Category 3

REPRODUCTIVE TOXICITY - Category 1B

REPRODUCTIVE TOXICITY - Category 2

RESPIRATORY SENSITISATION - Category 1

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 TOXICITY - REPEATED EXPOSURE - Category 1
STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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