Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - United Kingdom (UK)

# **SAFETY DATA SHEET**



Crystic Monomer C

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

## **1.1 Product identifier**

Product name	: Crystic Monomer C
Product code	: B7101400
Product type	: Liquid.

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

I	dentified uses
Not available.	

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

Scott Bader Co Ltd, Wollaston. Northants	
NN297RL	
United Kingdom +44 (0)1933663100	
e-mail address of person responsible for this SDS	: SDS@scottbader.com

## 1.4 Emergency telephone number

#### **Supplier**

**Telephone number** : +44 (0) 1933 663399 (24h) (Hours of operation)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture Product definition : Mixture

auct 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 Repr. 2, H361d (Unborn child) STOT RE 1, H372

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

## Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	: R10 Repr. Cat. 3; R63 Xn; R20, R48/20 Xi; R36/38
Physical/chemical hazards	: Flammable.
Human health hazards	: Possible risk of harm to the unborn child. Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Irritating to eyes and skin.

See Section 16 for the full text of the R phrases or 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	: Danger
Hazard statements	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H332 - Harmful if inhaled.</li> <li>H319 - Causes serious eye irritation.</li> <li>H315 - Causes skin irritation.</li> <li>H361d - Suspected of damaging the unborn child.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.</li> <li>P260 - Do not breathe vapour.</li> </ul>
Response	<ul> <li>P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable fo breathing.</li> <li>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminate clothing. Rinse skin with water or shower.</li> </ul>
Storage	: P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: styrene
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.

2.3 Other hazards

: None known.

Other hazards which do not result in classification

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

Substance/mixture	: Mixture				
			<u>Cla</u>	ssification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
styrene	REACH #: 01-2119457861-32 EC: 202-851-5 CAS: 100-42-5 Index: 601-026-00-0	≥90	R10 Repr. Cat. 3; R63 Xn; R20, R48/20 Xi; R36/38	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d (Unborn child) STOT RE 1, H372 (ears)	[1] [2]

## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

Crystic Monomer C

# SECTION 3: Composition/information on ingredients

See Section 16 for	See Section 16 for the	
the full text of the R-	full text of the H	
phrases declared	statements declared	
above.	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 or vPvBs 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

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

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

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

4.1 Description of first aid n	neasures
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	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

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

Potential acute health effects	<u>5</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympto	oms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

# **SECTION 4: First aid measures**

Inhalation	: Adverse symptoms may include the following: 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

# 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**

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5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , 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. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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, prote	ective 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).			
6.3 Methods and materia	al 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). 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. 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 oxidizing 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.

## Seveso II Directive - Reporting thresholds (in tonnes)

## Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	5000	50000
C6: Flammable (R10)	5000	50000

## 7.3 Specific end use(s)

Dete of increase (Dete of models in	40/05/0045	Dete of any transferrer	10/04/0045	Manatan	5/40
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# **SECTION 7: Handling and storage**

Recommendations Industrial sector specific solutions

Not available.Not available.

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

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**

Product/ingredient name	Exposure limit values
styrene	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 250 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 430 mg/m <sup>3</sup> 8 hours. STEL: 1080 mg/m <sup>3</sup> 15 minutes.

**Recommended monitoring procedures** If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **DNELs/DMELs**

Product/ingredient name	Туре	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	Consumers	Systemic
	DNEL	Short term Inhalation	182.75 mg/ m³	Consumers	Local
	DNEL	Long term Dermal	343 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	10.2 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	2.1 mg/kg bw/day	Consumers	Systemic

## **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		

#### 8.2 Exposure controls

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

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.	r
Individual protection measu		
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 per Appropriate techniques should be used to remove potentially contaminated cloc Wash contaminated clothing before reusing. Ensure that eyewash stations an safety showers are close to the workstation location.	othing.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a assessment indicates this is necessary to avoid exposure to liquid splashes, m gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical spla goggles.	nists,
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard s be worn at all times when handling chemical products if a risk assessment ind this is necessary. Considering the parameters specified by the glove manufact check during use that the gloves are still retaining their protective properties. I 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 several substances, the protection time of the gloves cannot be accurately estimated.	icates cturer, It
Body protection	Personal protective equipment for the body should be selected based on the ta being performed and the risks involved and should be approved by a specialis before handling this product. When there is a risk of ignition from static electri wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refe European Standard EN 1149 for further information on material and design requirements and test methods.	t icity,
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 approved by a specialist before handling this product.	l be
Respiratory protection	Use a properly fitted, air-purifying or air-fed respirator complying with an appro standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the pro and the safe working limits of the selected respirator.	า
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislati In some cases, fume scrubbers, filters or engineering modifications to the pro- equipment will be necessary to reduce emissions to acceptable levels.	

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

9.1 Information on basic physic	cal and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Not available.
Odour	: Not available.
Odour threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: 145°C
Flash point	: Open cup: 31°C
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Burning time	: Not applicable.

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

Burning rate	1	Not applicable.
Upper/lower flammability or explosive limits	;	Lower: 0.9% Upper: 6.8%
Vapour pressure	4	Not available.
Vapour density	:	Not available.
Relative density	:	0.91
Solubility(ies)	1	Not available.
Solubility in water	1	Not available.
Partition coefficient: n-octanol/ water	1	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	1	Dynamic (room temperature): 0.7 mPa⋅s Kinematic (40°C): >0.4 cm²/s
Explosive properties	:	Not available.
Oxidising properties	:	Not available.
VOC content (% by weight)	:	Not available.

## 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	: 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: oxidizing 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 toxicological effects**

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	-
Conclusion/Summary	Not available.	•	•	•

Acute toxicity estimates

Route	ATE value
	2770.1 ppm
Inhalation (vapours)	11.8 mg/l

Irritation/Corrosion

# **SECTION 11: Toxicological information**

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	Product/ingredient name	Result	Species	Score	Exposure	Observation			
	styrene	Eyes - Mild irritant	Human	-	50 parts per million	-			
		Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-			
		Eyes - Severe irritant	Rabbit	-	100 milligrams	-			
		Skin - Mild irritant	Rabbit	-	500 milligrams	-			
		Skin - Moderate irritant	Rabbit	-	100 Percent	-			

Conclusion/Summary	:	Not available.
<u>Sensitisation</u>		
<b>Conclusion/Summary</b>	:	Not available.
<u>Mutagenicity</u>		
<b>Conclusion/Summary</b>	:	Not available.
<b>Carcinogenicity</b>		
Conclusion/Summary	:	Not available.
Reproductive toxicity		
<b>Conclusion/Summary</b>	:	Not available.
Teratogenicity		
<b>Conclusion/Summary</b>	:	Not available.
Specific target organ toxicity	<u>(</u>	<u>single exposure)</u>

Not available.

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
styrene	Category 1	Not determined	ears

## Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	Causes serious eye irritation.
Inhalation	÷	Harmful if inhaled.
Skin contact	1	Causes skin irritation.
Ingestion	:	No known significant effects or critical hazards.

Symptoms related to the ph	ysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: 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

# **SECTION 11: Toxicological information**

## Ingestion

: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

Delayed and immediate effec	ts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
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.				
Carcinogenicity	: No known significant effects or critical hazards.				
Mutagenicity	: No known significant effects or critical hazards.				
Teratogenicity	: Suspected of damaging the unborn child.				
Developmental effects	: No known significant effects or critical hazards.				
Fertility effects	: No known significant effect	s or critical haz	ards		

## **Other information**

: Not available.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
styrene	Acute EC50 1400 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 33 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4700 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 13000 µg/l Fresh water	Crustaceans - Hyalella azteca	48 hours
	Acute LC50 4020 µg/l Fresh water Chronic NOEC 1.01 mg/l	Fish - Pimephales promelas Daphnia	96 hours 21 days

Conclusion/Summary

: Not available.

## 12.2 Persistence and degradability

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
styrene	-	-	Readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
styrene	0.35	13.49	low

## 12.4 Mobility in soil

Date	of issu	ue/Date	of revisio	n

# **SECTION 12: Ecological information**

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

# 12.5 Results of PBT and vPvB assessmentPBT: Not applicable.

- vPvB : Not applicable.
- **12.6 Other adverse effects**

: No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

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

## **13.1 Waste treatment methods**

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
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.
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	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	Ш	111	111
14.5 Environmental hazards	No.	No.	No.
Additional information	Special provisions 640 (E) Tunnel code	-	-
	(D/E)		

# **SECTION 14: Transport information**

14.6 Special precautions for	÷	Transport within user's premises: always transport in closed containers that are
user		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	1	Not available.
according to Annex II of		
MARPOL 73/78 and the IBC		
Code		

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

## **Other EU regulations**

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
styrene	-	-	Repr. 2, H361d (Unborn child)	-

## Seveso II Directive

This product is controlled under the Seveso II Directive.

Category		
P5c: Flammable liquic C6: Flammable (R10)	s 2 and 3 not falling under P5a or P5b	
ternational regulation	<u>s</u>	
isted on inventory.	<ul> <li>Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.</li> <li>Philippines inventory (PICCS): All components are listed or exempted. Taiwan inventory (CSNN): All components are listed or exempted.</li> </ul>	
2 Chemical Safety sessment	<ul> <li>This product contains substances for which Chemical Safety Assessments are still required.</li> </ul>	

# **SECTION 16: Other information**

Indicates information that	t has changed from previously issued versi	ion.		
Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and F 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Haza PBT = Persistent, Bioaccumulative a PNEC = Predicted No Effect Concer	el ard statement and Toxic	n [Regulation (EC) No	).
Date of issue/Date of revision	: 19/05/2015. Date of previous issue	<mark>:</mark> 13/04/2015.	Version : 1	12/13

# **SECTION 16: Other information**

## RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative

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

Procedure used to derive the	
Classifie	tion Justification
Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d (Unborn child) STOT RE 1, H372	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	<ul> <li>H226 Flammable liquid and vapour.</li> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>(inhalation)</li> <li>H361d Suspected of damaging the unborn child.</li> <li>(Unborn child)</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure. (ears (ears)</li> </ul>
Full text of classifications [CLP/GHS]	Acute Tox. 4, H332ACUTE TOXICITY (inhalation) - Category 4Eye Irrit. 2, H319SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 3Flam. Liq. 3, H226FLAMMABLE LIQUIDS - Category 3Repr. 2, H361d (Unborn child)TOXIC TO REPRODUCTION (Unborn child) - Category 2Skin Irrit. 2, H315SKIN CORROSION/IRRITATION - Category 2STOT RE 1, H372SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1STOT RE 1, H372 (ears)SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (ears) - Category 1
Full text of abbreviated R phrases	<ul> <li>R10- Flammable.</li> <li>R63- Possible risk of harm to the unborn child.</li> <li>R20- Harmful by inhalation.</li> <li>R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.</li> <li>R36/38- Irritating to eyes and skin.</li> </ul>
Full text of classifications [DSD/DPD]	Repr. Cat. 3 - Toxic to reproduction category 3 Xn - Harmful Xi - Irritant
Date of printing	31/05/2015.
Date of issue/ Date of revision	19/05/2015.
Date of previous issue	13/04/2015.
Version	1
Notice to reader	

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