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

•TRUSTED QUALITY SINCE 1921•

# **SAFETY DATA SHEET**

Natural Effects Cast Iron

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

- 1.1 Product identifier Product name Product description Product type
- : Natural Effects Cast Iron
- : Aerosol. Paint.
  - : Aerosol.

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

Not applicable.

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

Rust-Oleum Corporation Portobello Industrial Estate Birtley County Durham United Kingdom DH3 2RE Telephone no.: +44 (0) 191 4106611 Fax no.: +44 (0) 191 4920125

e-mail address of person : rpmeurohas@ro-m.com responsible for this SDS

#### 1.4 Emergency telephone number

Telephone number	: +44 (0) 207 858 1228
Hours of operation	: 24/7

### **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. Aerosol 1, H222 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 3, H412

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

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

Classification	: F+; R12 Xi; R36 R66, R67 R52/53
Physical/chemical hazards	: Extremely flammable.
Human health hazards	<ul> <li>Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.</li> </ul>
Environmental hazards	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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## **SECTION 2: Hazards identification**

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

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### 2.2 Label elements

**Hazard pictograms** 

Signal word	Danger	
Hazard statements	Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.	
<b>Precautionary statements</b>		
General	Read label before use. If medical advice is needed: Have product container or la at hand.	label
Prevention	Do not spray on an open flame or other ignition source. Avoid breathing vapour spray. Wear protective gloves and eye protection: gloves: neoprene or nitrile ru, safety glasses with side-shields. Avoid release to the environment.	
Response	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 attention.	
Storage	Store locked up.	
Disposal	Dispose of contents and container in accordance with all local, regional, nationa and international regulations.	al
Supplemental label elements	Pressurized container: may burst if heated. Keep away from heat, sparks, open flames and hot surfaces No smoking. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Keep out of reach of children. Repeated exposure may cause dryness or cracking.	r
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.	
Special packaging requirem	nts	
Containers to be fitted with child-resistant fastenings	Not applicable.	
Tactile warning of danger	Not applicable.	
2.3 Other hazards		
Other hazards which do not result in classification	None known.	

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

Substance/mixture

: Mixture

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

			Classification		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
liquefied petroleum gas	EC: 270-704-2 CAS: 68476-85-7 Index: 649-202-00-6	25 - <35	F+; R12	Flam. Gas 1, H220	[2]
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	15 - <20	F; R11 Xi; R36 R66, R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
xylene (mixture of isomeres)	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	5 - <10	R10 Xn; R20/21 Xi; R38	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	[1] [2]
hydrocarbons, aromatic, C9	REACH #: 01-2119455851-35 EC: 918-668-5 Index: 649-356-00-4	2.5 - <5	R10 Xn; R65 Xi; R37 R66, R67 N; R51/53	Flam. Liq. 3, H226 STOT SE 3, H335 and H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	<15	R10 R66, R67	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	1 - <5	F; R11 Xi; R36 R66, R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
1-ethylpyrrolidin-2-one	EC: 220-250-6 CAS: 2687-91-4	<0.5	Repr. Cat. 3; R63 Xi; R41	Eye Irrit. 2, H319 Repr. 2, H361fd	[1]
			See Section 16 for the full text of the R- phrases declared above.	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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[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 measures			
General	<ul> <li>In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.</li> </ul>		
Eye contact	<ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.</li> </ul>		
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.		
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>		
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.		
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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

There are no data available on the mixture itself. 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.

### 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.

See toxicological information (Section 11)

# SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing	: Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.
media Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture

5.2 Special nazarus ansing i	le substance of mixture	
Hazards from the substance or mixture	re will produce dense black smoke. luse a health hazard.	Exposure to decomposition products may
Hazardous thermal decomposition products	ecomposition products may include Irbon dioxide, smoke, oxides of nitro	the following materials: carbon monoxide, ogen.

### 5.3 Advice for firefighters

Date of issue/Date of revision

# **SECTION 5: Firefighting measures**

Special protective actions	: Cool closed containers exposed to fire with water. Do not release runoff from fire to
for fire-fighters	drains or watercourses.
Special protective equipment for fire-fighters	: Appropriate breathing apparatus may be required.
Additional information	<ul> <li>Pressurized container: may burst if heated. Bursting aerosol containers may be propelled from a fire at high speed. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight.</li> </ul>

# **SECTION 6: Accidental release measures**

6.1 Personal precautions pro	uipment and emergency procedures	•
For non-emergency personnel	e sources of ignition and ventilate the area. Avoi o protective measures listed in sections 7 and 8.	
For emergency responders	alised clothing is required to deal with the spillag ation in Section 8 on suitable and unsuitable mat nal information on hygiene measures.	
6.2 Environmental precautions	allow to enter drains or watercourses. If the proc or sewers, inform the appropriate authorities in a ions.	
6.3 Methods and materials for containment and cleaning up	n and collect spillage with non-combustible, abso vermiculite or diatomaceous earth and place in c ing to local regulations (see Section 13). Do not ourses. Preferably clean with a detergent. Avoid ninates lakes, rivers, or sewers, inform the appro ance with local regulations.	ontainer for disposal allow to enter drains or using solvents. If the product
6.4 Reference to other sections	ection 1 for emergency contact information. ection 8 for information on appropriate personal p ection 13 for additional waste treatment informati	

# **SECTION 7: Handling and storage**

7.1 Precautions for safe handling	<ul> <li>Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.</li> <li>Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.</li> <li>Information on fire and explosion protection</li> <li>Vapours are heavier than air and may spread along floors. Vapours may form avaluation with air.</li> </ul>	
Data of issue/Data of rovision	explosive mixtures with air. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent : 02-07-2014. Date of previous issue : 02-07-2014. Version : 1 5/1	16
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# **SECTION 7: Handling and storage**

vapour concentration has fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. <b>Notes on joint storage</b> Keep away from: oxidising agents, strong alkalis, strong acids. <b>Additional information on storage conditions</b> Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

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

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient	name Exposure limit values
liquefied petroleum gas	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 2180 mg/m <sup>3</sup> 15 minutes.
	STEL: 1250 ppm 15 minutes.
	TWA: 1750 mg/m <sup>3</sup> 8 hours.
	TWA: 1000 ppm 8 hours.
acetone	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 3620 mg/m <sup>3</sup> 15 minutes. STEL: 1500 ppm 15 minutes.
	TWA: 500 ppm 8 hours.
	TWA: 1210 mg/m <sup>3</sup> 8 hours.
xylene (mixture of isomeres)	EH40/2005 WELs (United Kingdom (UK), 12/2011). 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.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 966 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
ethyl acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours.
	TWA. 200 ppm 8 hours.
Recommended monitoring : procedures	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 European Standard EN 689 for
	methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous
	substances.
DNELs/DMELs	
ate of issue/Date of revision	: 02-07-2014. Date of previous issue : 02-07-2014. Version : 1 6/1

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
n-butyl acetate	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral, Dermal	3.4 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Inhalation	960 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	960 mg/m³	Workers	Local
	DNEL	Long term Inhalation	480 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	480 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	859.7 mg/ m³	Consumers	Systemic
	DNEL	Short term Inhalation	859.7 mg/ m <sup>3</sup>	Consumers	Local
	DNEL	Long term Inhalation	102.34 mg/ m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Inhalation	102.34 mg/ m <sup>3</sup>	Consumers	Local
ethyl acetate	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Systemic
	DNEL	Long term Inhalation	734 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	34 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	734 mg/m <sup>3</sup>	Consumers	Local
	DNEL	Short term Inhalation	734 mg/m³	Consumers	Systemic
	DNEL	Long term Inhalation	367 mg/m³	Consumers	Local
	DNEL	Long term Inhalation	367 mg/m³	Consumers	Systemic
	DNEL	Long term Dermal	37 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	4.5 mg/kg bw/day	Consumers	Systemic

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
n-butyl acetate	Fresh water	0.18 mg/l	-
	Marine	0.018 mg/l	-
	Fresh water sediment	0.981 mg/kg	-
	Marine water sediment	0.0981 mg/kg	-
	Soil	0.0903 mg/kg	-
	Sewage Treatment	35.6 mg/l	-
	Plant		
ethyl acetate	Fresh water	0.26 mg/l	-
	Marine	0.026 mg/l	-
	Fresh water sediment	0.34 mg/kg	-
	Marine water sediment	0.034 mg/kg	-
	Soil	0.22 mg/kg	-
	Sewage Treatment	650 mg/l	-
	Plant		

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

8.2 Exposure controls						
Appropriate engineering controls	achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.					
Individual protection meas	res					
<ul> <li>Hygiene measures</li> <li>Wash hands, forearms and face thoroughly after handling chemical processing, smoking and using the lavatory and at the end of the working performing the contaminate clothing before reusing. Ensure that eyewash state safety showers are close to the workstation location.</li> </ul>						
Eye/face protection	: Safety glasses with side shields. (EN166)					
Skin protection						
Hand protection						
combination of chemicals The breakthrough time m The instructions and infor replacement must be foll Gloves should be replace Always ensure that glove The performance or effect maintenance.	erial or combination of materials that will give unlimited resistance to any individual or st be greater than the end use time of the product. nation provided by the glove manufacturer on use, storage, maintenance and wed. regularly and if there is any sign of damage to the glove material. are free from defects and that they are stored and used correctly. veness of the glove may be reduced by physical/chemical damage and poor o protect the exposed areas of the skin but should not be applied once exposure has					
Gloves	: For prolonged or repeated handling, use the following type of gloves:					
	Recommended: > 8 hours (breakthrough time): neoprene - nitrile rubber					
	The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN 374-3 : 2003					
	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	<ul> <li>Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres. (EN 1149-1)</li> </ul>					
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	: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.					
	Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. Respirator selection must be based on known or anticipated exposure levels, the					
	hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour (Type A) and particulate filter. (EN 140)					
Environmental exposure controls	: Do not allow to enter drains or watercourses.					

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

9.1 Information on basic physica	l a	nd chemical properties
Appearance		
Physical state	:	Liquid. [Aerosol.]
Colour	:	Various
Odour	:	Solvent-like [Slight]
рН	:	Not available.
Melting point/freezing point	1	Not available.
Initial boiling point and boiling range	1	Not available.
Flash point	:	Closed cup: -70°C
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. Slightly flammable in the presence of the following materials or conditions: shocks and mechanical impacts. In use, may form flammable/explosive vapour-air mixture. Vapour may travel a considerable distance to source of ignition and flash back.
Burning time	:	Not applicable.
Burning rate	1	Not applicable.
Upper/lower flammability or explosive limits	1	Not available.
Vapour pressure	:	400 kPa [room temperature]
Vapour density	:	Not available.
Relative density	:	0.83 to 0.84
Solubility(ies)	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	1	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Explosive properties	:	Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Container explosion may occur under fire conditions or when heated. Bursting aerosol containers may be propelled from a fire at high speed.
Oxidising properties	:	Not available.
<b>9.2 Other information</b> Aerosol product Type of aerosol Heat of combustion No additional information.		Spray -7.945 kJ/g

### **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	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO2 and smoke can be generated.

### **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

There are no data available on the mixture itself. 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.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
acetone	LD50 Oral	Rat	5800 mg/kg	-
xylene (mixture of isomeres)	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
hydrocarbons, aromatic, C9	LD50 Oral	Mouse	8400 mg/kg	-
•	LD50 Oral	Rat	8400 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21 mg/l	4 hours
-	LC50 Inhalation Vapour	Rat	9700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	14000 mg/kg	-
ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
1-ethylpyrrolidin-2-one	LD50 Oral	Rat	1350 mg/kg	-

Conclusion/Summary : Not available.

### Acute toxicity estimates

Not available.

### Irritation/Corrosion

# **SECTION 11: Toxicological information**

Product/ingredient name		Result		Speci	es	Score	Exp	osure	Ob	servation
acetone	Eyes - Mild	irritant		Human		-		0 parts	-	
	Eyes - Mild		Rabbit		_	per mi	croliters			
		erate irritant		Rabbit		-	24 hou		-	
				1 CLODIC			milligra			
	Eyes - Seve	ere irritant		Rabbit		-	20 mill	igrams	-	
	Skin - Mild i	rritant		Rabbit		-		ırs 500	-	
	Skin - Mild i	rritant		Dahhit			milligra	ams		
	Skin - Willa I	mani		Rabbit		-	395 milligra	ams	-	
xylene (mixture of isomeres)	Eyes - Mild	irritant		Rabbit		-		igrams	-	
, , , , , , , , , , , , , , , , , , ,	Eyes - Seve			Rabbit		-	24 hou		-	
							milligra			
	Skin - Mild i	rritant		Rat		-	8 hour		-	
	Skin - Mode	vroto irritant		Rabbit			microli	iters Jrs 500		
	Skill - Woue			Rabbil		-	milligra		-	
	Skin - Mode	erate irritant		Rabbit		-	100 Pe		-	
hydrocarbons, aromatic, C9	Eyes - Mild			Rabbit		-		urs 100	-	
							microli	ters		
n-butyl acetate	Eyes - Mode	erate irritant		Rabbit		-	100		-	
	Skin - Mode	vroto irritant		Rabbit			milligra	ams Irs 500		
	Skill - Woue			Rabbil		-	milligra		-	
	Skin - Prima	ary dermal irri	tation	Rabbit		0	-		-	
	index (PDII)									
	Eyes - Corn			Rabbit		1	-		-	
1-ethylpyrrolidin-2-one	Eyes - Mode	erate irritant		Rabbit		-	100 milligra		-	
Conclusion/Summary					I					
Eyes	: Causes s	erious eye irr	itation.							
Sensitisation		,								
Conclusion/Summary	: Not availa	ahle								
	. Not availe									
Mutagenicity	Т			Eve					Res	
Product/ingredient name	OECD 471	est	Cubia		erime	ent		Negativ		uit
hydrocarbons, aromatic, C9			Subje	ct: Bacteri	а			Negative	е	
Conclusion/Summary	: Not availa	able.								
Carcinogenicity										
Conclusion/Summary	: Not availa	able.								
Reproductive toxicity										
Product/ingredient name	Maternal	Fertility	Devel	opmental		Specie	s	Dose		Exposure
Ŭ	toxicity			oxin		•				
hydrocarbons, aromatic, C9	-	-	Negat	ive	Mam	mal - sp	ecies	Unreport	ed -	
			Nogai			ecified	00100	eepere		
Conclusion/Summary	: Not availa	able.								
Teratogenicity										
Conclusion/Summary	: Not availa	ahle								
Specific target organ toxicit										
Not available.	y (Siligie ext	Josure)								
Specific target organ toxicit Not available.	y (repeated o	exposure)								
Aspiration hazard										
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Date of issue/Date of revision

: 02-07-2014. Date of previous issue

# **SECTION 11: Toxicological information**

Not available.

**Other information** : Not available.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

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

Result	Species	Exposure
Acute LC50 8.64 to 8098 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Acute LC50 10 mg/l Fresh water	Daphnia spec Daphnia magna	48 hours
Acute LC50 100 mg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling,	96 hours
Acute LC50 7.88 to 7280 mg/l Fresh water	Fish - Pimephales promelas	96 hours
Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
Chronic NOEC 0.1 ml/L Fresh water	Daphnia spec Daphnia magna - Neonate	21 days
Acute EC10 956 mg/l	Bacteria - Pseudomonas putida	18 hours
Acute EC50 648 mg/l	Algae - Desmodesmus subspicatus	72 hours
Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
Acute LC50 18 mg/l Fresh water	Fish - Pimephales promelas	96 hours
Acute LC50 62 mg/l	Fish - Danio rerio	96 hours
	Algae - Selenastrum sp.	96 hours
	•	48 hours
Acute LC50 225.42 to 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
Acute LC50 500 to 425300 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Chronic NOEC mg/I Fresh water	Daphnia spec Daphnia magna	21 days
	water Acute LC50 10 mg/l Fresh water Acute LC50 100 mg/l Fresh water Acute LC50 7.88 to 7280 mg/l Fresh water Chronic NOEC 4.95 mg/l Marine water Chronic NOEC 0.1 ml/L Fresh water Acute EC10 956 mg/l Acute EC50 648 mg/l Acute EC50 648 mg/l Acute LC50 32 mg/l Marine water Acute LC50 18 mg/l Fresh water Acute LC50 62 mg/l Acute EC50 2500000 µg/l Fresh water Acute LC50 1600000 µg/l Fresh water Acute LC50 500000 µg/l Fresh water Acute LC50 225.42 to 212500 µg/l Fresh water Acute LC50 500 to 425300 µg/l Fresh water	<ul> <li>water</li> <li>Acute LC50 10 mg/l Fresh water</li> <li>Acute LC50 100 mg/l Fresh water</li> <li>Acute LC50 7.88 to 7280 mg/l Fresh</li> <li>water</li> <li>Chronic NOEC 4.95 mg/l Marine water</li> <li>Chronic NOEC 0.1 ml/L Fresh water</li> <li>Acute EC10 956 mg/l</li> <li>Acute EC50 648 mg/l</li> <li>Acute LC50 18 mg/l Fresh water</li> <li>Acute LC50 1600000 µg/l Fresh water</li> <li>Acute LC50 560000 µg/l Fresh water</li> <li>Acute LC50 560000 µg/l Fresh water</li> <li>Acute LC50 500 to 425300 µg/l Fresh</li> <li>water</li> <li>Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)</li> </ul>

**Conclusion/Summary** 

: Not available.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculu	
xylene (mixture of isomeres) n-butyl acetate ethyl acetate	- - OECD 301D	90 % - Rea	dily - 5 days dily - 28 days dily - 28 days	- - -	- - -	
Conclusion/Summary	: Not available.				·	
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
acetone	-		-		Readily	

acetone	-	-	Readily
xylene (mixture of isomeres)	-	-	Readily
hydrocarbons, aromatic, C9	-	-	Readily
n-butyl acetate	-	-	Readily
ethyl acetate	-	-	Readily
-			-

### **12.3 Bioaccumulative potential**

# **SECTION 12: Ecological information**

<u> </u>			
Product/ingredient name	LogPow	BCF	Potential
acetone	-0.27 to 0.58	-	low
xylene (mixture of isomeres)	3.16	-	high
hydrocarbons, aromatic, C9	3.7 to 4.5	-	high
n-butyl acetate	2.3	10	low
ethyl acetate	0.7	-	low
1-ethylpyrrolidin-2-one	-0.04	-	low

12.4 Mobility in soil Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Volatile. This product is likely to volatilise rapidly into the air because of its high vapour pressure.

: No known significant effects or critical hazards.

12.5 Results of PBT	and vPvB assessment
PBT	: Not applicable.
vPvB	: Not applicable.

12.6	Other	adverse	effects
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### **SECTION 13: Disposal considerations**

### 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.
Disposal considerations	<ul> <li>Do not allow to enter drains or watercourses.</li> <li>Dispose of according to all federal, state and local applicable regulations.</li> </ul>

### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation	
20 01 27*	paint, inks, adhesives and resins containing 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.	
Disposal considerations	<ul> <li>Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Not emptied containers are hazardous waste.</li> </ul>	
Special precautions	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.	

### SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ	
14.1 UN number	UN1950	UN1950	UN1950	
14.2 UN proper shipping name	AEROSOLS Flammable [Limited quantity]	AEROSOLS Flammable [Limited quantity]	AEROSOLS, Flammable	
14.3 Transport hazard class(es)	2	2.1	2.1	
14.4 Packing group	-	-	-	
14.5 Environmental hazards	No.	No.	No.	
Additional information	Limited quantity: LQ2 Remarks: (< 1L: ) Limited Quantity - ADR/IMDG 3.4 ADR Tunnel code: (D)	Emergency schedules (EmS): F-D + S-U Remarks: Limited Quantity - ADR/IMDG 3.4	Passenger and Cargo Aircraft Quantity limitation: 75 kg Packaging instructions: 203 Cargo Aircraft Only Quantity limitation: 150 kg Packaging instructions: 203 Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y 203	

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

# SECTION 15: Regulatory information

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

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

: 3208 10 90 **CN code** 

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

### **Annex XIV**

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Other EU regulations

VOC for Ready-for-Use : Not applicable. **Mixture** 

### **SECTION 15: Regulatory information**

Europe inventory	: Not determined.
Integrated pollution	: Listed
prevention and control	
list (IPPC) - Air	

Product/ingredient name	Carcinogenic effects	•	Developmental effects	Fertility effects
1-ethylpyrrolidin-2-one	-	-	Repr. Cat. 3; R63	-

Aerosol dispensers : Extremely flammable

#### **National regulations**

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 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 PBT = Persistent, Bioaccumulative and Toxic</li> </ul>
	PBT = Persistent, Bloaccumulative and Toxic PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
	vPvB = Very Persistent and Very Bioaccumulative

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

Classi	fication	Justifica	tion
Flam. Aerosol 1, H222 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 3, H412		Expert judgment Expert judgment Expert judgment Expert judgment	
Full text of abbreviated H statements	H226Flammable liquH304May be fatal if sH312Harmful in contH315Causes skin irriH319Causes seriousH320Harmful if inhaleH335May cause respandH336H336May cause drowH361fdSuspected of daunborn child if sH411Toxic to aquation	mable aerosol. le liquid and vapour. id and vapour. swallowed and enters airways. act with skin. tation. eye irritation. eye irritation. biratory irritation. May cause drows vsiness or dizziness. amaging fertility if swallowed. Sus	
Full text of classifications [CLP/GHS]		ACUTE TOXICITY: SKIN - Cate ACUTE TOXICITY: INHALATIC AQUATIC TOXICITY (CHRONI AQUATIC TOXICITY (CHRONI ASPIRATION HAZARD - Categ SERIOUS EYE DAMAGE/ EYE FLAMMABLE AEROSOLS - Ca	N - Category 4 C) - Category 2 C) - Category 3 ory 1 IRRITATION - Category 2
Date of issue/Date of revision	: 02-07-2014. Date of previ	ous issue : 02-07-2014.	Version :1 15/16

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

	Flam. Gas 1, H220FLAMMABLE GASES - Category 1Flam. Liq. 2, H225FLAMMABLE LIQUIDS - Category 2Flam. Liq. 3, H226FLAMMABLE LIQUIDS - Category 3Repr. 2, H361fdTOXIC TO REPRODUCTION: ORAL [Fertility and Unborn child] - Category 2Skin Irrit. 2, H315SKIN CORROSION/IRRITATION - Category 2STOT SE 3, H335 and H336SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation and Narcotic effects] - Category 3STOT SE 3, H336SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3	
Full text of abbreviated R phrases	<ul> <li>R12- Extremely flammable.</li> <li>R11- Highly flammable.</li> <li>R10- Flammable.</li> <li>R63- Possible risk of harm to the unborn child.</li> <li>R20/21- Harmful by inhalation and in contact with skin.</li> <li>R65- Harmful: may cause lung damage if swallowed.</li> <li>R41- Risk of serious damage to eyes.</li> <li>R36- Irritating to eyes.</li> <li>R37- Irritating to respiratory system.</li> <li>R38- Irritating to skin.</li> <li>R66- Repeated exposure may cause skin dryness or cracking.</li> <li>R67- Vapours may cause drowsiness and dizziness.</li> <li>R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the</li> </ul>	
Full text of classifications [DSD/DPD]	<ul> <li>aquatic environment.</li> <li>F+ - Extremely flammable</li> <li>F - Highly flammable</li> <li>Repr. Cat. 3 - Toxic to reproduction category 3</li> <li>Xn - Harmful</li> <li>Xi - Irritant</li> <li>N - Dangerous for the environment</li> </ul>	
Date of printing	: 02-04-2015.	
Date of issue/ Date of revision	: 02-07-2014.	
Date of previous issue	: 02-07-2014.	
Version	: 1	
Notice to reader		

### Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.