Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2016/918

TRUSTED QUALITY SINCE 1921. SAFETY DATA SHEET

Radiator Enamel

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

- 1.1 Product identifier
- Product name
- : Radiator Enamel
- Product description Product type
- : Aerosol. Paint.
- : Aerosol.

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

		Identified uses	
Industrial uses Consumer uses Professional uses			
Uses advised against Reason			
None identified.		-	

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

Supplier	
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]

Aerosol 1, H222, H229 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 STOT RE 2, H373

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

Date of issue/Date of revision

SECTION 2: Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye irritation. Causes skin irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
General	 P102 - Keep out of reach of children. P103 - Read label before use. P101 - If medical advice is needed: Have product container or label at hand.
Prevention	 P211 - Do not spray on an open flame or other ignition source. P210 - Keep away from heat, sparks, open flames and hot surfaces No smoking. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapour or spray. P280 - Wear protective gloves and eye protection: gloves neoprene safety glasses with side-shields. P251 - Do not pierce or burn, even after use.
Response	 P305 - IF IN EYES: P351 - Rinse cautiously with water for several minutes. P338 - Remove contact lenses, if present and easy to do. Continue rinsing. P337 - If eye irritation persists: P313 - Get medical attention. P302 - IF ON SKIN: P352 - Wash with plenty of soap and water.
Storage	: P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50
	°C.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	 acetone; xylene (mixture of isomeres); hydrocarbons, C9-C12, n-/ iso-/ cyclo- alkanes, aromatics (2-25%)
Supplemental label elements	: Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	ients
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Yes, applicable.
2.3 Other hazards	
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
			Classification		
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре	
liquefied petroleum gas	EC: 270-704-2 CAS: 68476-85-7 Index: 649-202-00-6	≥25 - ≤50	Flam. Gas 1, H220	[2]	
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]	
xylene (mixture of isomeres)	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]	
Solvent naphtha (petroleum), medium aliph.	REACH #: 01-2119458049-33 EC: 919-446-0 CAS: 64742-88-7 Index: 649-405-00-X	≤5	Flam. Liq. 3, H226 STOT RE 1, H372 (central nervous system (CNS)) Asp. Tox. 1, H304	[1] [2]	
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	[1] [2]	
aluminium powder (stabilized)	EC: 231-072-3 CAS: 7429-90-5 Index: 013-002-00-1	≤3	Flam. Sol. 1, H228 Water-react. 2, H261	[2]	
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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	: 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.
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Date of issue/Date of revision

SECTION 4: First aid measures		
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners. 	
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting. 	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	

4.2 Most important symptoms and effects, both acute and delayed

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

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

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

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

Ingestion may cause nausea, diarrhea and vomiting.

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

Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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.
Chaoifia traatmonta	Ne aposifia tractment

Specific treatments : No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Recommended: alcohol-resistant foam, CO ₂ , powders, water spray.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	rom	the substance or mixture
Hazards from the substance or mixture	:	Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition 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.
Additional information	:	Pressurised 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.

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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. 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".
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 material for containment and cleaning up

SECTION 6: Accidental release measures

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.

7.1 Precautions for safe : handling	 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. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. 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. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. 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. Information on fire and explosion protection Vapours are heavier than air and may spread along floors. Vapours may form 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 vapour in all cases.
7.2 Conditions for onfo storage	including any incompatibilities

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

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

SECTION 7: Handling and storage

leakage.

Seveso Directive - Reporting thresholds (in tonnes)

Named substances

	Notification and MAPP threshold	Safety report threshold
Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas	50	200

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P3a: Flammable aerosols containing flammable gases or flammable liquids	150	500

7.3 Specific end use(s)

Recommendations

- : Not available.
- Industrial sector specific solutions
- : Not available.

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

quefied petroleum gas	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 2180 mg/m ³ 15 minutes.
	STEL: 1250 ppm 15 minutes.
	TWA: 1750 mg/m ³ 8 hours.
	TWA: 1000 ppm 8 hours.
cetone	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 3620 mg/m ³ 15 minutes.
	STEL: 1500 ppm 15 minutes.
	TWA: 500 ppm 8 hours.
	TWA: 1210 mg/m ³ 8 hours.
ylene (mixture of isomeres)	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 441 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Solvent naphtha (petroleum), medium aliph.	EH40/2005 WELs (United Kingdom (UK), 8/2007).
	STEL: 850 mg/m ³ , (as turpentine ***TO BE TRANSLATED***), 4
	times per shift, 15 minutes. Form: Vapour
	TWA: 566 mg/m³, (as turpentine (100 ppm)) 8 hours. Form:
	Vapour
thylbenzene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 552 mg/m ³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 441 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
luminium powder (stabilized)	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	TWA: 10 mg/m ³ 8 hours. Form: inhalable dust

SECTION 8: Exposure controls/personal protection

	TWA: 4 mg/m ³ 8 hours. Form: respirable dust
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

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be 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 measu	<u>ires</u>
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. 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. Recommended: safety glasses with side-shields (EN 166)
Skin protection	

Skin protection

Hand protection

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

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

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

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

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

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

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

Gloves

: For prolonged or repeated handling, use the following type of gloves:

Recommended: > 8 hours (breakthrough time): neoprene (0.65mm) 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

SECTION 8: Exposure controls/personal protection

	The user must check that the final choice of type of glove selected for handling this roduct is the most appropriate and takes into account the particular conditions of se, as included in the user's risk assessment.
Body protection	Personal protective equipment for the body should be selected based on the task eing performed and the risks involved and should be approved by a specialist efore handling this product. When there is a risk of ignition from static electricity, vear anti-static protective clothing. For the greatest protection from static ischarges, clothing should include anti-static overalls, boots and gloves. Refer to curopean Standard EN 1149 for further information on material and design equirements and test methods. Recommended: disposable overall (EN 1149-1).
Other skin protection	ppropriate footwear and any additional skin protection measures should be elected based on the task being performed and the risks involved and should be pproved by a specialist before handling this product.
Respiratory protection	assed on the hazard and potential for exposure, select a respirator that meets the ppropriate standard or certification. Respirators must be used according to a espiratory protection program to ensure proper fitting, training, and other importar spects of use. Recommended: organic vapour (Type A) and particulate filter (as Iter combination A-P2). (EN 140)
Environmental exposure controls	missions from ventilation or work process equipment should be checked to ensur- ney comply with the requirements of environmental protection legislation. In some ases, fume scrubbers, filters or engineering modifications to the process quipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

l and chemical properties
: Liquid. [Aerosol.]
: Various
: Solvent-like [Slight]
: Not available.
: Closed cup: -70°C
: Not available.
 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.
: Lower: 0,8% Upper: 13%
: 400 kPa [room temperature]
: >1 [Air = 1]
: 0,72 to 0,73
: Partially soluble in the following materials: cold water and hot water.
: Not available.
: 405°C
: Not available.
: Not available.

SECTION 9: Physical and chemical properties

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.
9.2 Other information	
Type of aerosol	: Spray
Heat of combustion	: 14,89 kJ/g
No additional information.	

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	;	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	:	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

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	-
Solvent naphtha (petroleum), medium aliph.	LC50 Inhalation Vapour	Cat	10000 mg/m ³	8 hours
	LC50 Inhalation Vapour	Rat	>8200 mg/m ³	8 hours
	LD50 Dermal	Rat	>3052 mg/kg	-
	LD50 Oral	Rat	>6040 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	50000 mg/m ³	2 hours
-	LCLo Inhalation Vapour	Rat	4000 ppm	4 hours
	LD50 Oral	Rat	3500 mg/kg	-

Acute toxicity estimates

Not available.

SECTION 11: Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
acetone	Eyes - Mild irritant	Human	-	186300 parts	-	
	Eyes - Mild irritant	Rabbit	_	per million 10 microliters	_	
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-	
		1 CODIC		milligrams		
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-	
	Skin - Mild irritant	Rabbit	-	milligrams 395 milligrams	-	
xylene (mixture of isomeres)	Eyes - Mild irritant	Rabbit	-	87 milligrams	-	
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-	
				milligrams		
	Skin - Mild irritant	Rat	-	8 hours 60	-	
				microliters		
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-	
	Skin - Moderate irritant	Rabbit	_	milligrams 100 Percent	_	
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-	
ettyloenzene		1 CODIC		milligrams		
	Skin - Mild irritant	Rabbit	-	24 hours 15	-	
				milligrams		
Conclusion/Summary	•		•			
Skin	: Causes skin irritation.					
Eyes	: Causes serious eye irritation	า.				
Respiratory	 May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure if inhaled. 					
<u>Sensitisation</u>						
Conclusion/Summary						
Skin	: Based on available data, the	e classification c	riteria are	not met.		
Respiratory	: Based on available data, the classification criteria are not met.					
Mutagenicity						
Conclusion/Summary	: Based on available data, the	e classification c	riteria are	not met.		
Carcinogenicity						
Conclusion/Summary	: Based on available data, the	e classification c	riteria are	not met.		
Reproductive toxicity						
Conclusion/Summary	: Based on available data, the	e classification o	riteria are	not met.		
Teratogenicity						
Conclusion/Summary	: Based on available data, the	e classification o	riteria are	not met.		
Specific target organ toxicit	y (single exposure)					

Product/ingredient name	Category	Route of exposure	Target organs
acetone xylene (mixture of isomeres)	0,	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	C	ategory	Route of exposure	Target organs
kylene (mixture of isomeres) Solvent naphtha (petroleum), medium aliph.	Categ Categ		Not determined Not determined	Not determined central nervous system (CNS)
ethylbenzene	Categ	jory 2	Not determined	hearing organs
Aspiration hazard	·			
Product/ingredient name			Result	
xylene (mixture of isomeres) Solvent naphtha (petroleum), medium aliph. ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		

<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 eff		
Not available.		
Conclusion/Summary	Based on available data, the classification criteria are not met.	
General	May cause 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	No known significant effects or critical hazards.	
Developmental effects	No known significant effects or critical hazards.	

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.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment.

Product/ingredient name	Result	Species	Exposure
acetone	Acute LC50 8,64 to 8098 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 7,88 to 7280 mg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 9,46 to 6530 µg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 4,4 to 2970 µg/l Fresh water	Daphnia spec Daphnia magna - Neonate	48 hours
	Acute LC50 13,7 to 8780 µg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
ate of issue/Date of revision	: 19/03/2018 Date of previous issue	: 21/08/2017 Version	: 3.02 12/18

SECTION 12: Ecological information

	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 11 to 9090 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 4200 µg/l Fresh water Chronic NOEC 1000 µg/l Fresh water	Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata	96 hours 96 hours
Conclusion/Summary	: Based on available data, the classific	ation criteria are not met.	

: Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
xylene (mixture of isomeres)	-	90 % - Readily - 5 day	/S	-	-
Conclusion/Summary	: This product has not been tested for biodegradation. Based on available data, the classification criteria are not met.				
Product/ingredient name	Aquatic half-life	P	hotolysis	5	Biodegradability
acetone xylene (mixture of isomeres) ethylbenzene	- -				Readily Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
acetone	-0,23	-	low
xylene (mixture of isomeres)	3,12	8.1 to 25.9	low
ethylbenzene	3,6	-	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.
12.5 Results of PBT and	vPvB assessment
PBT	: Not applicable.
vPvB	: Not applicable.

- : 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.

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.

SECTION 13: Disposal considerations

Disposal considerations : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

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 hazardous 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	 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. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
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. 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	UN1950	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS, Flammable [Limited quantity]	AEROSOLS, Flammable [Limited quantity]	AEROSOLS, Flammable [Limited quantity]	AEROSOLS, Flammable
14.3 Transport hazard class(es)	2	2	2.1	2.1
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	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 AircraftQuantity limitation: 75 kgPackaging instructions: 203Cargo Aircraft Only Quantity limitation: 150 kgPackaging instructions: 203Limited Quantities - Passenger Aircraft Quantity limitation: 30

SECTION 14: Transport information		
		kg Packaging instructions: Y 203

^{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

EU Regulation (EC) No. 190 Annex XIV - List of substa	nces subject to authorisation
Annex XIV	
None of the components a	re listed.
Substances of very high	<u>concern</u>
None of the components a	re listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Other EU regulations	
VOC for Ready-for-Use Mixture	: Not applicable.
Europe inventory	: All components are listed or exempted.
Industrial emissions (integrated pollution prevention and control) - Air	: Listed
Ozone depleting substand	<u>es (1005/2009/EU)</u>
Not listed.	
Prior Informed Consent (P Not listed.	<u>PIC) (649/2012/EU)</u>
Aerosol dispensers	:
	3
	Extremely flammable
Seveso Directive	-
This product is controlled ur	ider the Seveso Directive.
•	

Named substances

Name

Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas

SECTION 15: Regulatory information

Danger criteria

Category

P3a: Flammable aerosols containing flammable gases or flammable liquids

National regulations

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.

Product/ingredient name	List name	Name on list	Classification	Notes
liquefied petroleum gas		liquefied petroleum gas; LPG	Carc.	-
Poforoncos	EH40/2005 Workplace	oxposuro limite		

References

EH40/2005 Workplace exposure limits Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2016/918

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

CN code : 3208 10 90 **UFI Code** : 0P00-X070-4008-P8R5

International lists

National inventory			
Australia	: Not determined.		
Canada	: Not determined.		
China	: Not determined.		
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.		
Malaysia	: Not determined.		
New Zealand	: Not determined.		
Philippines Republic of Korea	At least one component is not listed.At least one component is not listed.		
Taiwan	: Not determined.		
Turkey	: Not determined.		
United States	: Not determined.		
15.2 Chemical safety assessment	: No Chemical Safety Assessment has been carried out.		

SECTION 16: Other information

Indicates information that has changed from previously issued version.

	5 1 5
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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
	PNEC = Predicted No Effect Concentration
	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]

Classification	Justification
Aerosol 1, H222, H229	Expert judgment
Skin Irrit. 2, H315	Expert judgment
Eye Irrit. 2, H319	Expert judgment
STOT SE 3, H336	Expert judgment
STOT RE 2, H373	Expert judgment

Full text of H-phrases referred to in sections 2 and 3

Full text of abbreviated H : statements	H220 H222, H229 H225 H226 H228 H261 H304 H312 H315 H319 H332 H335 H336 H372 H373	Extremely flammable gas. Extremely flammable aerosol. Pressurised container: May burst if heated. Highly flammable liquid and vapour. Flammable liquid and vapour. Flammable solid. In contact with water releases flammable gases. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure.
Full text of classifications : [CLP/GHS]	Acute Tox. 4, H312 Acute Tox. 4, H332 Aerosol 1, H222, H229 Asp. Tox. 1, H304 EUH066 Eye Irrit. 2, H319 Flam. Gas 1, H220 Flam. Liq. 2, H225 Flam. Liq. 3, H226 Flam. Sol. 1, H228 Skin Irrit. 2, H315 STOT RE 1, H372 STOT RE 2, H373 STOT SE 3, H335 STOT SE 3, H336 Water-react. 2, H261	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AEROSOLS - Category 1 ASPIRATION HAZARD - Category 1 Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE GASES - Category 1 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 FLAMMABLE SOLIDS - Category 3 FLAMMABLE SOLIDS - Category 1 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3 SUBSTANCES AND MIXTURES WHICH IN CONTACT
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SECTION 16: Other information

			WITH WATER EMIT FLAMMABLE GASES - Category 2
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Notice to reader

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. 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.