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• RUST-OLEUM®

SAFETY DATA SHEET

Mirror Effect Finish (2016)

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

- 1.1 Product identifier
- : Mirror Effect Finish (2016)
- Product name Product description Product type
- : Paint. Aerosol.
- : 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

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 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

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

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

SECTION 2: Hazards identification

Classification	: F+; R12 Xi; R36 R66, R67 N; R50/53
Physical/chemical hazards	: Extremely flammable.
Human health hazards	 Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
Environmental hazards	: Very toxic 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. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Pressurized container: may burst if heated.
Precautionary statements		
General	:	Read label before use. If medical advice is needed: Have product container or label at hand.
Prevention	:	Do not spray on an open flame or other ignition source. Keep away from heat, sparks, open flames and hot surfaces No smoking. Do not pierce or burn, even after use. Avoid breathing vapour or spray. Wear protective gloves and eye protection: gloves: neoprene , safety glasses with side-shields. Do not pierce or burn, even after use.
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. Protect from sunlight and do not expose to temperatures exceeding 50 °C.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Repeated exposure may cause skin dryness or cracking.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.

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

Mirror Effect Finish (2016)

SECTION 2: Hazards identification

2.3 Other hazards

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

			Class	ification	
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	≥25 - <50	F+; R12	Flam. Gas 1, H220	[2]
acetone	Index: 649-202-00-6 REACH #: 01-2119471330-49	≥25 - <50	F; R11	Flam. Liq. 2, H225	[1] [2]
	EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8		Xi; R36 R66, R67	Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1	≥25 - <50	R10 R66, R67	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
	CAS: 123-86-4 Index: 607-025-00-1			EUH066	
copper	EC: 231-159-6 CAS: 7440-50-8	≥3 - <5	Xn; R22 N; R50/53	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	[1]
zincpowder, stabilised	REACH #: 01-2119467174-37	≥1 - <3	N; R50/53	Aquatic Acute 1, H400	[1]
	EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9			Aquatic Chronic 1, H410	
			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 m	easures
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	: 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.

SECTION 4: First aid measures

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	 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. 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 media	:	: Recommended: alcohol-resistant foam, CO ₂ , powders, water spray.				
Unsuitable extinguishing media	:	: Do not use water jet.				
5.2 Special hazards arising f	ron	the substance or mixture				
Hazards from the substance or mixture	:	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.				
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.				
5.3 Advice for firefighters						
Special protective actions for fire-fighters	:	Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.				
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.				
Additional information	:	: 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.				
Date of issue/Date of revision		: 5/6/2015 Date of previous issue : 5/6/2015 Version : 1 4/15				

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures		
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.		
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 Section 8 for additional information on hygiene measures.		
6.2 Environmental precautions	:	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.		
6.3 Methods and material for containment and cleaning up	:	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.		
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

7.1 Precautions for safe handling	avoid vapo In addition, other source protected t Operators conducting Keep away Avoid conta mist arising sanding. Eating, drir handled, st Put on app Always kee Comply wite watercours Informatio Vapours ar explosive r When oper ventilation cases. In s	ur concentrations higher the the product should only b ces of ignition have been e to the appropriate standard should wear antistatic foo type. from heat, sparks and fla act with skin and eyes. Ave from the application of the hking and smoking should ored and processed. ropriate personal protective op in containers made from h the health and safety at es. n on fire and explosion per the heavier than air and main inxtures with air.	nan the occupation e used in areas fro xcluded. Electrica twear and clothing me. No sparking to bid the inhalation of is mixture. Avoid i be prohibited in ar e equipment (see n the same materia work laws. Do not protection y spread along floo not, have to work o control particula nould wear a comp	om which all naked lights and l equipment should be g and floors should be of the ools should be used. of dust, particulates, spray or nhalation of dust from reas where this material is Section 8). al as the original one. allow to enter drains or ors. Vapours may form a inside the spray booth, tes and solvent vapour in all pressed air-fed respirator
7.2 Conditions for safe		contration has fallen below		its.
storage, including any incompatibilities	Notes on j Keep away Additional Observe la (95°F). Sto	oint storage from: oxidising agents, st information on storage bel precautions. Do not sto	rong alkalis, strong conditions ore above the follo rentilated area. Ke	wing temperature: 35°C ep away from heat and direct
Date of issue/Date of revision	: 5/6/2015	Date of previous issue	: 5/6/2015	Version : 1 5/15

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

Mirror Effect Finish (2016)

SECTION 7: Handling and storage

access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

: Not available.
: 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 ³ 15 minutes.
	STEL: 1250 ppm 15 minutes.
	TWA: 1750 mg/m ³ 8 hours.
	TWA: 1000 ppm 8 hours.
acetone	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.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 966 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.

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
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 ³	Workers	Systemic
	DNEL	Short term Inhalation	960 mg/m³	Workers	Local
	DNEL	Long term Inhalation	480 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	480 mg/m ³	Workers	Local
	DNEL	Short term	859.7 mg/	Consumers	Systemic
te of issue/Date of revision : 5/	6/2015	Date of previous issue	: 5/6/201	5	Version : 1

SECTION 8: Exposure controls/personal protection

		Inhalation	m³		
	DNEL	Short term	859.7 mg/	Consumers	Local
		Inhalation	m³		
	DNEL	Long term	102.34 mg/	Consumers	Systemic
		Inhalation	m³		
	DNEL	Long term	102.34 mg/	Consumers	Local
		Inhalation	m³		
zincpowder, stabilised	DNEL	Long term	5 mg/m³	Workers	-
		Inhalation			
	DNEL	Inhalation	2.5 mg/m ³	Workers	Local
	DNEL	Short term Oral	50 mg/day	Workers	Local
	DNEL	Short term Dermal	5000 mg/	Workers	Local
			day		

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		
zincpowder, stabilised	Fresh water	20.6 µg/l	-
	Marine	6.1 µg/l	-
	Sewage Treatment	52 µg/l	-
	Plant		
	Fresh water sediment	118 mg/kg dwt	-
	Marine water sediment	56.5 mg/kg dwt	-
	Soil	35.6 mg/kg dwt	-

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 measures

Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety glasses with side shields. (EN166)

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.

Date of issue/Date of revision	: 5/6/2015	Date of previous issue	: 5/6/2015	Version : 1	7/15

SECTION 8: Exposure controls/personal protection

		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	1	Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres. (EN 1149-1)
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.
		Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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	1	Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

5	
9.1 Information on basic physic	al and chemical properties
<u>Appearance</u>	
Physical state	: Liquid. [Aerosol.]
Colour	: Gold.
Odour	: Solvent-like [Slight]
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	: Not available.
boiling range	
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	: Not applicable.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: 400 kPa [room temperature]
Vapour density	: Not available.
Relative density	: 0,7
Solubility(ies)	: Insoluble in the following materials: cold water and hot water.
Solubility in water	: Not available.

Date of issue/Date of revision	Date of	issue/	Date of	f revision
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: 5/6/2015 Date of p

Date of previous issue

SECTION 9: Physical and chemical properties

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Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	1	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	1	Not available.
9.2 Other information		
Aerosol product		
Type of aerosol	:	Spray
Heat of combustion	:	17.08 kJ/g
No additional information.		

SECTION 10: Stability and reactivity

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

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

SECTION 11: Toxicological information

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Result	Species	Dose	Exposure
LD50 Oral	Rat	5800 mg/kg	-
LC50 Inhalation Vapour	Rat	>21 mg/l	4 hours
LC50 Inhalation Vapour	Rat	9700 mg/m ³	4 hours
LD50 Dermal	Rabbit	>17600 mg/kg	-
LD50 Oral	Rat	14000 mg/kg	-
	LD50 Oral LC50 Inhalation Vapour LC50 Inhalation Vapour LD50 Dermal	LD50 OralRatLC50 Inhalation VapourRatLC50 Inhalation VapourRatLD50 DermalRabbit	LD50 OralRat5800 mg/kgLC50 Inhalation VapourRat>21 mg/lLC50 Inhalation VapourRat9700 mg/m³LD50 DermalRabbit>17600 mg/kg

Conclusion/Summary

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

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
acetone	Eyes - Mild irritant	Human	-	186300 parts	-
				per million	
	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	395	-
				milligrams	
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Primary dermal irritation index (PDII)	Rabbit	0	-	-
	Eyes - Cornea opacity	Rabbit	1	-	-
zincpowder, stabilised	Skin - Mild irritant	Human	-	72 hours 300	-
				Micrograms	
				Intermittent	

Conclusion/Summary	
Skin	: Based on available data, the classification criteria are not met.
Eyes	: Causes serious eye irritation.
Respiratory	: May cause drowsiness or dizziness.
Sensitisation	
Conclusion/Summary	
Skin	: Based on available data, the classification criteria are not met.
Respiratory	: Based on available data, the classification criteria are not met.
Mutagenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Carcinogenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Reproductive toxicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Teratogenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Specific target organ toxici	<u>y (single exposure)</u>

Product/ingredient name	Category	Route of exposure	Target organs
acetone		Not applicable.	Narcotic effects
n-butyl acetate		Not applicable.	Narcotic effects

Date of issue/Date of revision

SECTION 11: Toxicological information

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

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.

Product/ingredient name	Result	Species	Exposur
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
n-butyl acetate	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
copper	Acute EC50 1 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute IC50 5.4 mg/l Marine water	Aquatic plants - Plantae - Exponential growth phase	72 hours
	Acute LC50 0.072 µg/l Marine water	Crustaceans - Amphipoda - Adult	48 hours
	Acute LC50 0.0115 to 9.4 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 7.56 µg/l Marine water	Fish - Periophthalmus waltoni - Adult	96 hours
	Chronic NOEC 2.5 µg/l Marine water	Algae - Nitzschia closterium - Exponential growth phase	72 hours
	Chronic NOEC 7 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 0.02 mg/l Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days
	Chronic NOEC 2 μg/l Fresh water Chronic NOEC 0.8 μg/l Fresh water	Daphnia spec Daphnia magna Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	21 days 6 weeks
zincpowder, stabilised	Acute EC50 106 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute EC50 0.572 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 10000 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute LC50 107 μg/l Fresh water Acute LC50 182 μg/l Fresh water	Daphnia spec Daphnia pulex Fish - Oncorhynchus tshawytscha	48 hours 96 hours
	Chronic EC10 27.3 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Chronic EC10 59.2 µg/l Fresh water Chronic NOEC 9 mg/l Fresh water	Daphnia spec Daphnia magna Aquatic plants - Ceratophyllum	21 days 3 days

SECTION 12: Ecological information

Chronic NOEC 178 µg/l Marine water Crustaceans - Palaemon 21 da elegans	<u> </u>			
		Chronic NOEC 178 µg/l Marine water	Crustaceans - Palaemon	21 days
5	(Chronic NOEC 2.6 µg/l Fresh water	5	4 weeks

Conclusion/Summary : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test Result		Dose		Inoculum	
n-butyl acetate	-	90 % - Rea	idily - 28 days	-		-
Conclusion/Summary	: This product has not been tested for biodegradation. Based on available data, the classification criteria are not met.			ailable data, the		
Product/ingredient name	Aquatic half-life Photolysis Biodegradability		radability			
acetone n-butyl acetate	-		-		Readily Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
acetone	-0.27 to 0.58	-	low
n-butyl acetate	2.3	10	low

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

12.6 Other adverse effects : No known significant effects or critical hazards.

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	1	Yes.
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:

Date of issue/Date of revision : 5/6/2015 Date of previous issue	: 5/6/2015	Version : 1 12/15
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SECTION 13: Disposal considerations

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	 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.
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	UN 1950	UN 1950	UN 1950	
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 + <u>S-U</u> Remarks: Limited Quantity - ADR/IMDG 3.4	Passenger and Cargo AircraftQuantity limitation: 75 kgPackaging instructions: 203Cargo Aircraft OnlyQuantity limitation: 150 kgPackaging instructions: 203Limited Quantities - Passenger AircraftQuantity limitation: 30 kgPackaging instructions: Y 203	

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

CN code : 3208 10 90

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

Date of issue/Date of revision

: 5/6/2015

: 5/6/2015

SECTION 15: Regulatory information

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
Europe inventory : Not determined.
Integrated pollution : Listed prevention and control list (IPPC) - Air
Aerosol dispensers :
3

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	: 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	calculated.
Eye Irrit. 2, H319	calculated.
STOT SE 3, H336	calculated.
Aquatic Acute 1, H400	calculated.
Aquatic Chronic 2, H411	calculated.

SECTION 16: Other information

Full text of abbreviated H statements	 H220 Extremely flammable gas. H222, Extremely flammable aerosol. Pressurized container: may burst if heated. H229 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. 	
Full text of classifications [CLP/GHS]	 Acute Tox. 4, H302 Aerosol 1, H222, H229 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 2, H411 EUH066 Eye Irrit. 2, H319 Flam. Gas 1, H220 Flam. Liq. 2, H225 Flam. Liq. 3, H226 STOT SE 3, H336 ACUTE TOXICITY (oral) - Category 4 AEROSOLS - Category 1 ACUTE AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 2 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 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 	
Full text of abbreviated R phrases	 R12- Extremely flammable. R11- Highly flammable. R10- Flammable. R22- Harmful if swallowed. R36- Irritating to eyes. R66- Repeated exposure may cause skin dryness or cracking. R67- Vapours may cause drowsiness and dizziness. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 	
Full text of classifications [DSD/DPD]	: F+ - Extremely flammable F - Highly flammable Xn - Harmful Xi - Irritant N - Dangerous for the environment	
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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.