# TRUSTED QUALITY SINCE 1921. SAFETY DATA SHEET

Surface Primers

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

- 1.1 Product identifier
- Product name Product description
- : Surface Primers : Aerosol. Paint
- Product type
- UFI

- : Aerosol.
- Aerosol.
- : 8E31-U0G0-G00R-NERH

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

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

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

RUST-OLEUM EUROPE Martin Mathys NV, Kolenbergstraat 23, B-3545 Zelem, Belgium Telephone no.: +32 (0) 13 460 200 Fax no.: +32 (0) 13 460 201

Tor Coatings Limited Unit 21, White Rose Way, Follingsby Park, Gateshead, Tyne & Wear, NE10 8YX United Kingdom Telephone no.: +44 (0) 191 4106611 Fax no.: +44 (0) 191 4920125 enquiries@tor-coatings.com

e-mail address of person : rpmeurohas@rustoleum.eu responsible for this SDS

1.4 Emergency telephone	number
National advisory body/F	<u>Poison Centre</u>
Supplier	
Telephone number	: +44 870 8200418 / +44 2038073798
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 Chronic 3, H412

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

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

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

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 - United Kingdom (UK)

Surface Primers

# **SECTION 2: Hazards identification**

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#### 2.2 Label elements

**Hazard pictograms** 



Signal word	:	Danger	
Hazard statements	:	Extremely flammable aerosol. Pressurised container: may burst if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.	
Precautionary statements			
General	:	P103 - Read carefully and follow all instructions. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.	
Prevention	:	<ul> <li>P280 - Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P211 - Do not spray on an open flame or other ignition source.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P251 - Do not pierce or burn, even after use.</li> </ul>	
Response	:	Not applicable.	
Storage	;	P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.	
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Hazardous ingredients	:	acetone	
Supplemental label elements	:	Repeated exposure may cause skin dryness or cracking. Contains Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.	
Supplemental label elements : Detergents - Regulation (EC) No 907/2006	:	Not applicable.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.	
Special packaging requirements			
Containers to be fitted with child-resistant fastenings		Not applicable.	
Tactile warning of danger	:	Not applicable.	

#### 2.3 Other hazards

#### Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 -**United Kingdom (UK)**

Surface Primers

# **SECTION 2: Hazards identification**

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

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

#### **3.2 Mixtures**

#### : Mixture **United Kingdom: Great Britain**

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
liquefied petroleum gas	REACH #: Annex V EC: 270-704-2 CAS: 68476-85-7	≥25 - ≤50	Flam. Gas 1A, H220 Press. Gas (Liq.), H280	[2]
acetone	Index: 649-202-00-6 REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
Ethylacetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤1	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤0,3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Fatty acids, tall-oil, compds. with oleylamine	REACH #: 01-2119974148-28 EC: 288-315-1 CAS: 85711-55-3	≤0,1	Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 (oral)	[1]
			See Section 16 for the full text of the H statements declared above.	

#### Туре

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 -**United Kingdom (UK)**

Surface Primers

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

- [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
- [6] Additional disclosure due to company policy

This mixture contains ≥ 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

SCL (Specific Concentration Limits) Not applicable.	Not applicable.
ATE (acute toxicity estimates) Not applicable.	Not applicable.
	Particle Size Not applicable.

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.

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

### SECTION 4: First aid measures

4.1 Description of first aid	measures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Date of issue/Date of revision	: 16/12/2021 Date of previous issue : 20/04/2021 Version : 7 4/22

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

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

#### Over-exposure signs/symptoms

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

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.

# SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing	: Use an extinguishing agent suitable for the surrounding fire.
media	
Unsuitable extinguishing media	: None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

#### **5.3 Advice for firefighters**

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# **SECTION 5: Firefighting measures**

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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: 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.

## **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). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for o	ontainment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an

appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
 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: See Section 1 for emergency contact information.sections: 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

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### **Seveso Directive - Reporting thresholds**

Danger criteria					
Category	Notification and MAPP threshold	Safety report threshold			
РЗа	150 tonne	500 tonne			

#### 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** 

#### **United Kingdom: Great Britain**

Product/ingredient name	E	Exposure limit values			
liquefied petroleum gas	EH40/2005 WELs (Uni STEL: 2180 mg/m <sup>3</sup> 15 STEL: 1250 ppm 15 m TWA: 1750 mg/m <sup>3</sup> 8 ho TWA: 1000 ppm 8 ho	o minutes. ninutes. nours.	K), 1/2020).		
acetone	TWA: 1000 ppm 8 hours. <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b> 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.				
n-butyl acetate	EH40/2005 WELs (Uni		K), 1/2020).		
Date of issue/Date of revision : 16/12/202	Date of previous issue	: 20/04/2021	Version	:7	7/22

#### **SECTION 8: Exposure controls/personal protection** 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. EH40/2005 WELs (United Kingdom (UK), 1/2020). Ethylacetate STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. STEL: 1468 mg/m<sup>3</sup> 15 minutes. TWA: 734 mg/m<sup>3</sup> 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed 1-methoxy-2-propanol through skin. STEL: 560 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. **Recommended monitoring** : If this product contains ingredients with exposure limits, personal, workplace 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 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

documents for methods for the determination of hazardous substances will also be

for the measurement of chemical agents) Reference to national guidance

DNELs/DMELs

required.

Product/ingredient name	Туре	Exposure	Value	Population	Effects
acetone	DNEL	Long term Oral	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	62 mg/kg bw/day	General	Systemic
	DNEL	Long term Dermal	186 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	200 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	1210 mg/ m³	Workers	Systemic
	DNEL	Short term	2420 mg/ m³	Workers	Local
n-butyl acetate	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	3,4 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	960 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	960 mg/m³	Workers	Local
	DNEL	Long term	480 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	480 mg/m³	Workers	Local
	DNEL	Short term Inhalation	859,7 mg/ m³	General population [Consumers]	Systemic
	DNEL	Short term	859,7 mg/	General	Local

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

		Inhalation	m³	population [Consumers]	
	DNEL	Long term	102,34 mg/	General	Systemic
		Inhalation	m <sup>3</sup>	population	
				[Consumers]	
	DNEL	Long term	102,34 mg/	General	Local
		Inhalation	m <sup>3</sup>	population	
				[Consumers]	
	DNEL	Long term Dermal	3,4 mg/kg	General	Systemic
			bw/day	population	-
			-	[Consumers]	
Ethylacetate	DNEL	Short term	1468 mg/	Workers	Local
-		Inhalation	m³		
	DNEL	Short term	1468 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Long term	734 mg/m <sup>3</sup>	Workers	Local
		Inhalation	-		
	DNEL	Long term	34 mg/m³	Workers	Systemic
		Inhalation	U U		-
	DNEL	Long term Dermal	63 mg/kg	Workers	Systemic
		U U	bw/day		
	DNEL	Short term	734 mg/m <sup>3</sup>	General	Local
		Inhalation	l	population	
				[Consumers]	
	DNEL	Short term	734 mg/m <sup>3</sup>	General	Systemic
		Inhalation	Ŭ	population	,
				[Consumers]	
	DNEL	Long term	367 mg/m <sup>3</sup>	General	Local
		Inhalation	Ŭ	population	
				[Consumers]	
	DNEL	Long term	367 mg/m³	General	Systemic
		Inhalation	5	population	- <b>,</b>
				[Consumers]	
	DNEL	Long term Dermal	37 mg/kg	General	Systemic
		<b>J</b>	bw/day	population	- <b>,</b>
			<b>,</b>	[Consumers]	
	DNEL	Long term Oral	4,5 mg/kg	General	Systemic
		5	bw/day	population	,
			,	[Consumers]	
1-methoxy-2-propanol	DNEL	Short term	553,5 mg/	Workers	Local
		Inhalation	m <sup>3</sup>		
	DNEL	Long term	369 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	l		-
	DNEL	Long term Dermal	50,6 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	43,9 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
				[Consumers]	
	DNEL	Long term Dermal	18,1 mg/	General	Systemic
			kg bw/day	population	
				[Consumers]	
	DNEL	Long term Oral	3,3 mg/kg	General	Systemic
		-	bw/day	population	-
				[Consumers]	
trizinc bis(orthophosphate)	DNEL	Long term	5 mg/m³	Workers	Systemic
· · · ·		Inhalation	_		-
	DNEL	Long term	2,5 mg/m³	General	Systemic
		Inhalation		population	-
				[Consumers]	
	DNEL	Long term Dermal	83 mg/kg	Workers	Systemic
			bw/day		

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

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#### **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		
Ethylacetate	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	Ŭ	
1-methoxy-2-propanol	Fresh water	10 mg/l	-
<b>5</b>	Fresh water sediment	41,6 mg/l	-
	Marine water sediment	4,17 mg/l	-
	Soil	2,47 mg/l	-
	Sewage Treatment	100 mg/l	-
	Plant	C C	
trizinc bis(orthophosphate)	Fresh water	48,1 µg/l	-
	Marine	14,2 µg/l	-
	Fresh water sediment	550,2 mg/kg	-
	Marine water sediment	263,9 mg/kg	-
	Soil	249,4 mg/kg	-
	Sewage Treatment	121,4 µg/l	-
	Plant		
zinc oxide	Fresh water	25,6 µg/l	-
	Marine	7,6 µg/l	-
	Sewage Treatment	64,7 µg/l	-
	Plant		
	Fresh water sediment	146 mg/kg dwt	-
	Marine water sediment	70,3 mg/kg dwt	-
	Soil	44,3 mg/kg dwt	-

#### 8.2 Exposure controls

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

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	<u>res</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. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin 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.

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): neoprene (0.65mm) - nitrile rubber (0.5mm).
	The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. 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	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.
Other skin protection	<ul> <li>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.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour (Type A) and particulate filter. (EN 140)

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

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Environmental exposure
controls
: Emissions from ventilation or work process equipment should be checked to
ensure they comply with the requirements of environmental protection legislation.
In some cases, fume scrubbers, filters or engineering modifications to the process
equipment will be necessary to reduce emissions to acceptable levels.
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### **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

Physical state       : Liquid. (Aerosol.)         Colour       : Grey. Red. White. [Light]         Odour       : Solvent-like [Siight]         Odour threshold       : Not available.         Meiting point/freezing point       : Not available.         Initial boiling point and boiling range       : Not relevant due to nature of the product.         Flammability (solid, gas)       : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.         Sightly flammable in the presence of the following materials or conditions: is 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.         Upper/lower flammability or       : Lower: 0.8%         Upper/lower flammability or       : Not relevant due to nature of the product.         Auto-lignition temperature       : Not relevant due to nature of the product.         Decomposition temperature       : Not available.         PH       : Not available.         Viscosity       : Not available.         Solubility in water       : Not available.         Solubility in water       : Not available.         Vapour pressure       : 400 KPa (3000 mm Hg)         Evaporation rate       :> 1 (buty acatate = 1)         Relative density       : Not available. <th></th> <th></th> <th></th>			
Odour: Solvent-like [Slight]Odour threshold: Not available.Metting point/freezing point: Not available.Initial boiling point and boiling range: Not relevant due to nature of the product.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: schocks 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.Upper/lower flammability or explosive limits: Lower: 0.8%. Upper: 13%Flash point: Not relevant due to nature of the product.Auto-Ignition temperature pH: Not relevant due to nature of the product.Decomposition temperature pH: Not relevant due to nature of the product.Solubility (ise): Product is non-soluble (in water).Viscosity: Not available.PH : Justification: Product is non-soluble (in water).Viscosity: Not available.Solubility in water: Not available.Partition coefficient: n-octaouf water: Not available.Vapour pressure Evaporation rate: > 1 (butyl acetate = 1)Relative density: Not available.Density: > 1 (Air # 1]Evaporation rate: > 1 (butyl acetate = 1)Relative density: > > 1 (Air # 1]Explosive properties: > 1 (Air # 1]Explosive properties: > 1 (Air # 1]Explosive properties: > 1 (	Physical state		
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Melting point methods       : Not available.         Initial boiling point and       : Not relevant due to nature of the product.         Soling range       : Not relevant due to nature of the product.         Flammability (solid, gas)       : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.         Silghty flammabile 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.         Upper/lower flammability or explosive limits       : Lower: 0.8%         uto-ignition temperature       : Not relevant due to nature of the product.         Auto-ignition temperature       : Not relevant due to nature of the product.         pH       : Justification         pH       : Not available.         pH       : Not available.         Solubility (ies)       : Very slightly soluble in the following materials: cold water and hot water.         Solubility in water       : Not available.         Partition coefficient: n-octanol/       : Not available.         Vapour pressure       : 400 kPa (3000 mm Hg)         Evaporation rate       :> 1 (lift) acetate = 1)         Relative density       : 1 (lift) acetate = 1)         Relative density       :> 1 (lift) acetate = 1)	Odour	Solvent-like [Slight]	
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explosive limitsUpper: 13%Flash point: Not relevant due to nature of the product.Auto-ignition temperature: Not relevant due to nature of the product.Decomposition temperature: Not available.pH: Not available.pH : Justification: Product is non-soluble (in water).Viscosity: Not available.Solubility(ies): Very slightly soluble in the following materials: cold water and hot water.Solubility in water: Not available.Partition coefficient: n-octanol/: Not available.Vapour pressure: 400 kPa (3000 mm Hg)Evaporation rate: >1 (butyl acetate = 1)Relative density: Not available.Density: 0.75 to 0.8 g/cm³ [20°C (68°F)]Vapour density: >1 [Air = 1]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 owhen heated. Bursting aerosol containers may be propelled from a fire at high speed.Oxidising properties: Not available.Particle characteristics: Not available.	Flammability (solid, gas)	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	
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pH : Justification:Product is non-soluble (in water).Viscosity:Not available.Solubility (ies):Very slightly soluble in the following materials: cold water and hot water.Solubility in water:Not available.Partition coefficient: n-octanol/ water:Not available.Vapour pressure:400 kPa (3000 mm Hg)Evaporation rate:>1 (butyl acetate = 1)Relative density:Not available.Density:0.75 to 0.8 g/cm³ [20°C (68°F)]Vapour density:>1 [Air = 1]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.Particle characteristics:Not available.	Decomposition temperature	Not available.	
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Solubility (ies): Very slightly soluble in the following materials: cold water and hot water.Solubility in water: Not available.Partition coefficient: n-octanol/ water: Not available.Vapour pressure Evaporation rate: 400 kPa (3000 mm Hg) : >1 (butyl acetate = 1)Relative density: Not available.Density: 0,75 to 0,8 g/cm³ [20°C (68°F)]Vapour density: >1 [Air = 1]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.Particle characteristics	pH : Justification	Product is non-soluble (in water).	
Solubility in water       : Not available.         Partition coefficient: n-octanol/       : Not available.         water       : 400 kPa (3000 mm Hg)         Evaporation rate       : >1 (butyl acetate = 1)         Relative density       : Not available.         Density       : 0,75 to 0,8 g/cm³ [20°C (68°F)]         Vapour density       : >1 [Air = 1]         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.         Particle characteristics       : Not available.	Viscosity	Not available.	
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Evaporation rate       : >1 (butyl acetate = 1)         Relative density       : Not available.         Density       : 0,75 to 0,8 g/cm³ [20°C (68°F)]         Vapour density       : >1 [Air = 1]         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.		Not available.	
Relative density       : Not available.         Density       : 0,75 to 0,8 g/cm³ [20°C (68°F)]         Vapour density       : >1 [Air = 1]         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.	Vapour pressure	400 kPa (3000 mm Hg)	
Density: 0,75 to 0,8 g/cm³ [20°C (68°F)]Vapour density: >1 [Air = 1]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.	Evaporation rate	>1 (butyl acetate = 1)	
Vapour density: >1 [Air = 1]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.	Relative density	Not available.	
<ul> <li>Explosive properties</li> <li>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.</li> <li>Not available.</li> </ul>	Density	0,75 to 0,8 g/cm³ [20°C (68°F)]	
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 Particle characteristics: Not available.	Vapour density	>1 [Air = 1]	
Particle characteristics	Explosive properties	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.	t
	Oxidising properties	Not available.	
Median particle size       : Not applicable.	Particle characteristics		
	Median particle size	Not applicable.	

<b>SECTION 9: Physica</b>	I and chemical properties
9.2 Other information	
Heat of combustion	: 13,92 kJ/g
Aerosol product	
Type of aerosol	: Spray
<b>SECTION 10: Stabilit</b>	y and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

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

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
acetone	LD50 Dermal	Guinea pig	>7400 mg/kg	-
	LD50 Dermal	Rabbit	>7400 mg/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
n-butyl acetate	LC50 Inhalation Dusts and	Rat - Male,	23,4 mg/l	4 hours
2	mists	Female		
	LC50 Inhalation Vapour	Rat	>21 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	9700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	14000 mg/kg	-
Ethylacetate	LC50 Inhalation Vapour	Rat	>22,5 mg/l	6 hours
2	LD50 Oral	Mouse	4100 mg/kg	-
	LD50 Oral	Rabbit	4935 mg/kg	-
	LD50 Oral	Rat	5620 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	30,02 mg/l	4 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Mouse	11700 mg/kg	-
	LD50 Oral	Rat - Male,	4016 mg/kg	-
		Female		
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and	Rat	>5,7 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>5000 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and	Mouse	2500 mg/m <sup>3</sup>	4 hours
	mists		_	
	LC50 Inhalation Dusts and	Rat	>5700 mg/m³	4 hours
	mists			
	LD50 Oral	Rat	>15 g/kg	-

Acute toxicity estimates

Date of issue/Date of revision

Product/ingredient name n-butyl acetate		Oral (mg/ kg)Dermal (mg/kg)N/AN/A		Inhalation (gases) (ppm)		Inhalatio (vapour (mg/l)	
				N/A		N/A	23,4
rritation/Corrosion		ļ	ļ				Į
Product/ingredient name	Result		Species	Score	Ex	oosure	Observation
acetone zinc oxide	Eyes - Severe irritant Eyes - Mild irritant Skin - Mild irritant	Ra	bbit bbit bbit	-	millig	urs 500	-
			~~~		millig		
Conclusion/Summary							
Skin	: Based on available of	data, the clas	sification cri	teria are	not m	et.	
Eyes	: Causes serious eye irritation.						
Respiratory	: May cause drowsine	ess or dizzine	SS.				
Sensitisation							
Conclusion/Summary							
Skin	: Based on available of	data, the clas	sification cri	teria are	not m	et.	
Respiratory	: Based on available of	data, the clas	sification cri	teria are	not m	et.	
<u>Mutagenicity</u>							
Conclusion/Summary	: Based on available of	data, the clas	sification cri	teria are	not m	et.	
Carcinogenicity							
t has been observed that the eading to significant impairme	ent of particle clearance	mechanisms	in the lung.				l in quantities
Conclusion/Summary	: Based on available of	data, the clas	sification cri	teria are	not m	et.	
Reproductive toxicity							
Conclusion/Summary	: Based on available of	data, the clas	sification cri	teria are	not m	et.	
<u>Feratogenicity</u>							
Conclusion/Summary	: Based on available of	data, the clas	sification cri	teria are	not m	et.	
Specific target organ toxicit				1			
Product/ingr	redient name	Ca	ategory		ute of osure		rget organs
Surface Primers acetone n-butyl acetate		Categ Categ Categ	ory 3			Narc	otic effects otic effects otic effects
Ethylacetate		Categ	00.2			Mara	otic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Fatty acids, tall-oil, compds. with oleylamine	Category 2	oral	-

#### Aspiration hazard

Not available.

# Information on likely routes of exposure

: Routes of entry anticipated: Dermal, Inhalation. Routes of entry not anticipated: Oral.

#### Potential acute health effects

Date of issue/Date of revision

#### SECTION 11: Toxicological information : Causes serious eye irritation. Eye contact Inhalation Can cause central nervous system (CNS) depression. May cause drowsiness or • dizziness. Skin contact Defatting to the skin. May cause skin dryness and irritation. 2 : Can cause central nervous system (CNS) depression. Ingestion Symptoms related to the physical, chemical and toxicological characteristics : Adverse symptoms may include the following: Eye contact pain or irritation watering redness Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Skin contact Adverse symptoms may include the following: ÷. irritation dryness cracking : No specific data. Ingestion Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure **Potential immediate** : Not available. effects **Potential delayed effects** : Not available. Long term exposure Potential immediate : Not available. effects **Potential delayed effects** : Not available. Potential chronic health effects Not available. : Based on available data, the classification criteria are not met. **Conclusion/Summary** General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Carcinogenicity No known significant effects or critical hazards. ٤. **Mutagenicity** : No known significant effects or critical hazards. : No known significant effects or critical hazards. Reproductive toxicity **Endocrine disrupting** : Not available. properties Other information : Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
acetone	Acute LC50 8098000 µg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
		dubia - Neonate	
	Acute LC50 7280000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 0,5 ml/L Marine water	Algae - Karenia brevis	96 hours
	Chronic NOEC 0,016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 1 g/L Fresh water	Daphnia spec Daphnia magna	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus -	42 days
		Larvae	
n-butyl acetate	Acute EC50 397 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 44 mg/l Fresh water	Daphnia spec.	48 hours
	Acute LC50 18 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 23 mg/l Fresh water	Daphnia spec.	21 days
Ethylacetate	Acute EC50 5600 mg/l	Algae - Scenedesmus	72 hours
· , · · · · · · · · · · · · · · · · · ·	3	subspicatus	
	Acute EC50 165 mg/l Fresh water	Daphnia spec Daphnia	48 hours
		Cucullata	
	Acute LC50 230 mg/l Fresh water	Fish - Pimephales promelas	48 hours
	Chronic NOEC 2,4 mg/l Fresh water	Daphnia spec Daphnia magna	21 days
	Chronic NOEC 6,9 mg/l Fresh water	Fish - Pimephales promelas	6,9 hours
1-methoxy-2-propanol	Acute EC50 >1000 mg/l	Algae - Selenastrum	7 days
		capricomutum	
	Acute EC50 23300 mg/l	Daphnia spec.	96 hours
	Acute LC50 6812 mg/l Fresh water	Fish	96 hours
trizinc bis(orthophosphate)	Acute EC50 5,7 mg/l	Daphnia spec ceriodaphnia dubia	48 hours
	Acute IC50 1,87 mg/l	Algae - selenastrum	72 hours
		capricornutum	
zinc oxide	Acute EC50 0,024 mg/l	Algae	72 hours
	Acute EC50 0,137 mg/l	Algae	72 hours
	Acute EC50 0,413 mg/l	Daphnia spec.	48 hours
	Acute EC50 0,481 mg/l Fresh water	Daphnia spec Daphnia magna - Neonate	48 hours
	Acute IC50 46 µg/l Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata - Exponential	
		growth phase	
	Acute LC50 98 µg/l Fresh water	Daphnia spec Daphnia magna - Neonate	48 hours
	Acute LC50 0,33 to 0,78 mg/l	Fish	96 hours
	Chronic NOEC 0,019 mg/l	Algae	7 days
	Chronic NOEC 0,037 mg/l	Daphnia spec.	21 days
	Chronic NOEC 0,082 mg/l	Daphnia spec.	7 days
	Chronic NOEC 0,199 mg/l	Fish	30 days

**Conclusion/Summary** 

: Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	-	90 % - Readily - 28 days	-	-
-	OECD 301D	83 % - Readily - 28 days	-	-
	-	80 % - 5 days	-	-
Ethylacetate	OECD 301D	70 % - Readily - 28 days	-	-
1-methoxy-2-propanol	OECD 301E	96 % - Readily - 28 days	-	-
	-	>90 % - Readily - 5 days	1,95 gO₂/g	-
			ThOD	
	OECD 301C	88 to 92 % - Readily - 28 days	-	-

# **SECTION 12: Ecological information**

<b>Conclusion/Summary</b> : This product has not been tested for biodegradation. Based on available data, the classification criteria are not met.			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetone n-butyl acetate Ethylacetate 1-methoxy-2-propanol	- - - Fresh water <28 days, 5 to 25°C	- - - -	Readily Readily Readily Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
acetone	-0,23	-	low
n-butyl acetate	2,3	10	low
Ethylacetate	0,68	30	low
1-methoxy-2-propanol	<1	<100	low
trizinc bis(orthophosphate)	-	60960	high
zinc oxide	-	177	low

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: 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

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting	: No known significant effects or critical hazards.
properties	
12.7 Other adverse effects	: No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance.

#### 13.1 Waste treatment methods

#### Product

Disposal of this product, solutions and any by-products should at all times comp with the requirements of environmental protection and waste disposal legislatio and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should no disposed of untreated to the sewer unless fully compliant with the requirements all authorities with jurisdiction.
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Hazardous waste : Yes.

<b>European</b>	waste	cataloc	ue	(EWC)

Waste code	Waste designation	
20 01 27*	paint, inks, adhesives and resins containing hazardous substances	
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.	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 -**United Kingdom (UK)** 

Surface Primers

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1950	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable	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 : ≤ 1L Tunnel code (D)		Emergency schedules : F-D, S-U <u>Remarks</u> : ≤ 1L: Limited Quantity - IMDG 3.4	Quantity limitation Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203.

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.

14.7 Transport in bulk : Not available. according to IMO instruments

# SECTION 15: Regulatory information

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

# **SECTION 15: Regulatory information**

#### **Other EU regulations**

VOC	:		
VOC for Ready-for-Use Mixture	:	Exempt	
Industrial emissions (integrated pollution prevention and control) - Air	:	Listed	
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed	
Ozone depleting substance Not listed.	<u>es</u>	<u>(1005/2009/EC)</u>	
Brier Informed Concept (BIC) (649/2012/EC)			

Prior Informed Consent (PIC) (649/2012/EC) Not listed.

Persistent Organic Pollutants (850/2004/EC)

Not listed.

**UKCA mark** 



Extremely flammable

#### Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria	
Category	
P3a	

#### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
liquefied petroleum gas	UK Occupational Exposure Limits EH40 - WEL	liquefied petroleum gas; LPG	Carc.	-
United Kingdom: Great Brit	ain			
References	<ul> <li>EH40/2005 Workplace exposure limits Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC</li> </ul>			
nternational regulations				
tockholm Convention on P	ersistent Organic Pollut	tants		

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 - United Kingdom (UK)

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List name		Ingredient name	Status	
Not listed.				
Rotterdam Convention of	on Prior Informed	d Consent (PIC)		
Not listed.				
UNECE Aarhus Protoco	I on POPs and He	eavy Metals		
List name		Ingredient name	Status	
Not listed.				
<b>CN code</b> : 3208 10	) 90 00			
Inventory list				
Australia	: Not deterr	mined.		
Canada	: At least or	ne component is not listed.		
China	: Not deterr	Not determined.		
Europe	: All compo	All components are listed or exempted.		
Japan		Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.		
New Zealand	: Not deterr	Not determined.		
Philippines	: Not deterr	Not determined.		
Republic of Korea	: Not deterr	mined.		
Taiwan	: Not deterr	mined.		
Thailand	: Not deterr	mined.		
Turkey	: Not deterr	Not determined.		
United States	: Not deterr	Not determined.		
Viet Nam	: Not deterr	Not determined.		
15.2 Chemical safety assessment	: This produred.	This product contains substances for which Chemical Safety Assessments are still required.		

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
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Aerosol 1, H222, H229	Bridging principle "Aerosols"
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements United Kingdom: Great Britain

Date of issue/Date of revision

# SECTION 16: Other information

Full text of classifications [CLP/GHS]	:	H222,       Ex         H229       he         H225       Hi         H226       Fla         H280       Co         H317       Ma         H318       Ca         H319       Ca         H336       Ma         H373       Ma         H400       Ve         H410       Ve         H412       Ha         EUH066       Re	tremely flammable gas. tremely flammable aerosol. Pressurised container: may burst if tated. ghly flammable liquid and vapour. ammable liquid and vapour. and the pressure; may explode if heated. ay cause an allergic skin reaction. auses serious eye damage. auses serious eye damage. auses serious eye damage. auses serious eye damage. auses dowsiness or dizziness. ay cause damage to organs through prolonged or repeated posure. ery toxic to aquatic life. ery toxic to aquatic life with long lasting effects. armful to aquatic life with long lasting effe
Dete of uninting		00/40/0004	Category 3
Date of printing		20/12/2021	
Date of issue/ Date of revision	:	16/12/2021	
Date of previous issue	:	20/04/2021	
Version	1	7	
Notice to reader			

#### Notice to reader

IMPORTANT NOTE: 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 information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety

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Surface Primers

# **SECTION 16: Other information**

laws.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.