Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET



2180 Galva Expresse

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

1.1 Product identifier	
Product name	: 2180 Galva Expresse
Product description	: Paint
Product type	: Aerosol.
UFI	: DKE1-T0S2-D007-4FHA

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

Identified uses		
Consumer use Professional use Industrial 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/Poison Centre				
<u>Supplier</u>				
Telephone number United Kingdom: Great Britain	: +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

<u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> Aerosol 1, H222, H229 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

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

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

2.2 Label elements





Signal word	:	Danger
Hazard statements	:	H222, H229 - Extremely flammable aerosol. Pressurised container: may burst if heated.
		H410 - Very toxic 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	:	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P273 - Avoid release to the environment. P251 - Do not pierce or burn, even after use.
Response	1	P391 - Collect spillage.
Storage	:	P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	EUH208 - Contains maleic anhydride. May produce an allergic reaction.
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 requirem	ner	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.

2.3 Other hazards

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SECTION 2: Hazards identification

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.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture United Kingdom: Great Britain

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
dimethyl ether	REACH #: 01-2119472128-37 EC: 204-065-8 CAS: 115-10-6	≥25 - ≤50	Flam. Gas 1A, H220 Press. Gas (Comp.), H280 EUH018	-	[2]
Zinc powder - zinc dust (stabilized)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥25 - ≤50	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤10	Flam. Liq. 3, H226 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	≤10	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Ethylacetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≤5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Quaternary ammonium compounds, C12-14 (even- numbered)- alkylethyldimethyl, ethyl sulphates	REACH #: 01-2119977130-42	≤1	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg ATE [Dermal] = 300 mg/kg M [Acute] = 1 M [Chronic] = 10	[1]
maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0,1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (inhalation) EUH071	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0,001%	[1] [2]
Date of issue/Date of revision	: 06/11/2023 Date	e of previous is:	sue : 29/09/2023	Version : 8.0	1 3/20

SECTION 3: Composition/information on ingredients

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

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

List numbers have no legal significance.

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. Get medical attention if irritation occurs. Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: 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.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

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

SECTION 5: Firefighting measures

5.2 Special hazards arising f	ron	n 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 very toxic 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 metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Additional information	:	Pressurised container: 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, pro	te	ctive 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. 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. Collect spillage.
6.3 Methods and material for o	со	ntainment 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.

SECTION 6: Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

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. 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		
	Notification and MAPP threshold	Safety report threshold
	150 tonne 100 tonne	500 tonne 200 tonne

7.3 Specific end use(s)

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Recommendations

: Not available.

- Industrial sector specific solutions
- : Not available.

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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 / Biological exposure indices

United Kingdom: Great Britain

Product/ingredient name	Exposure limit values
dimethyl ether	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 958 mg/m ³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 766 mg/m ³ 8 hours. TWA: 400 ppm 8 hours.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 560 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
Ethylacetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. STEL: 1468 mg/m ³ 15 minutes. TWA: 734 mg/m ³ 8 hours.

Recommended monitoring procedures : 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
Zinc powder - zinc dust (stabilized)	DNEL	Long term Inhalation	5 mg/m³	Workers	Local
	DNEL	Long term Inhalation	2,5 mg/m³	Workers	Local
	DNEL	Short term Oral	50 mg/day	Workers	Local
	DNEL	Short term Dermal	5000 mg/ day	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/m ³	Workers	Systemic
	DNEL	Short term Inhalation	960 mg/m ³	Workers	Local
	DNEL	Long term	480 mg/m ³	Workers	Systemic
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		111	1		
	DNEL	Inhalation Long term	480 mg/m³	Workers	Local
		Inhalation	950 7 m m/	Conorol	Curatarmia
	DNEL	Short term Inhalation	859,7 mg/ m³	General population	Systemic
	DNEL	Short term Inhalation	859,7 mg/ m³	[Consumers] General population	Local
	DNEL	Long term Inhalation	102,34 mg/ m³	[Consumers] General population	Systemic
	DNEL	Long term Inhalation	102,34 mg/ m³	[Consumers] General population	Local
	DNEL	Long term Dermal	3,4 mg/kg bw/day	[Consumers] General population	Systemic
1-methoxy-2-propanol	DNEL	Short term Inhalation	553,5 mg/ m³	[Consumers] Workers	Local
	DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	50,6 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	43,9 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	18,1 mg/ kg bw/day	[Consumers] General population	Systemic
	DNEL	Long term Oral	3,3 mg/kg bw/day	[Consumers] General population	Systemic
Ethylacetate	DNEL	Short term Inhalation	1468 mg/ m³	[Consumers] Workers	Local
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Systemic
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	34 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	734 mg/m ³	General population [Consumers]	Local
	DNEL	Short term Inhalation	734 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	367 mg/m³	General population	Local
	DNEL	Long term Inhalation	367 mg/m³	[Consumers] General population	Systemic
	DNEL	Long term Dermal	37 mg/kg bw/day	[Consumers] General population	Systemic
	DNEL	Long term Oral	4,5 mg/kg bw/day	[Consumers] General population	Systemic
Quaternary ammonium compounds,	DNEL	Long term	0,98 mg/m ³	[Consumers] General	Systemic

SECTION 8: Exposure controls/personal protection

	, 010/ p	•			
C12-14 (even-numbered)- alkylethyldimethyl, ethyl sulphates		Inhalation		population	
	DNEL	Long term Oral	2,83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2,83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	3,32 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	4,7 mg/kg bw/day	Workers	Systemic
maleic anhydride	DNEL	Short term Inhalation	0,8 mg/m³	Workers	Systemic
	DNEL DNEL	Short term Dermal Long term Inhalation	0,04 mg/kg 0,4 mg/m³	Workers Workers	Systemic Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Zinc powder - zinc dust (stabilized)	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	-
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		
1-methoxy-2-propanol	Fresh water	10 mg/l	-
	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		
Ethylacetate	Fresh water	0,24 mg/l	-
	Marine	0,024 mg/l	-
	Fresh water sediment	1,15 mg/kg	-
	Marine water sediment	0,115 mg/kg	-
	Soil	0,148 mg/kg	-
	Sewage Treatment	650 mg/l	-
	Plant		
maleic anhydride	Fresh water	0,04281 mg/l	-
	Marine water	0,004281 mg/l	-
	Soil	0,0415 mg/l	-
	Fresh water sediment	0,334 mg/kg	-
	Marine water sediment	0,0334 mg/kg	-
	Sewage Treatment	44,6 mg/l	-
	Plant	-	

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, 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 explosionproof ventilation equipment.

SECTION 8: Exposure controls/personal protection

Individual protection me	asures
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: safety glasses with side-shields.

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	emical-resistant, impervious gloves complying with an approvious and all times when handling chemical products if a risk as is necessary. Considering the parameters specified by the eck during use that the gloves are still retaining their protective build be noted that the time to breakthrough for any glove materent for different glove manufacturers. In the case of mixtur veral substances, the protection time of the gloves cannot be imated. > 8 hours (breakthrough time): polyethylene (PE), polyethylene (PE), polyethylene (0.65mm)	ssessment indicates glove manufacturer, e properties. It erial may be res, consisting of accurately
	e recommendation for the type or types of glove to use when duct is based on information from the following source: EN33 eck that the final choice of type of glove selected for handling st appropriate and takes into account the particular condition luded in the user's risk assessment.	74. The user must this product is the
Body protection	rsonal protective equipment for the body should be selected I ing performed and the risks involved and should be approved ore handling this product. When there is a risk of ignition fro ar anti-static protective clothing. For the greatest protection f charges, clothing should include anti-static overalls, boots an ropean Standard EN 1149 for further information on material uirements and test methods. Recommended: Personnel sho thing made of natural fibres or of high-temperature-resistant 49-1).	by a specialist m static electricity, from static d gloves. Refer to and design buld wear antistatic
Other skin protection	propriate footwear and any additional skin protection measure ected based on the task being performed and the risks involve proved by a specialist before handling this product.	
Respiratory protection	sed on the hazard and potential for exposure, select a respiratoropriate standard or certification. Respirators must be used piratory protection program to ensure proper fitting, training, pects of use. Recommended: organic vapour (Type A) and public.	according to a and other important
Environmental exposure controls	issions from ventilation or work process equipment should b sure they comply with the requirements of environmental prot some cases, fume scrubbers, filters or engineering modificati upment will be necessary to reduce emissions to acceptable	ection legislation. ons to the process

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 physic	al and chemical properties
Physical state	: Liquid. [Aerosol.]
Colour	: Grey.
Odour	: Hydrocarbon.
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	: Not available.

1

Ingredient name	°C	°F	Method	
dimethyl ether	-24,82	-12,7		

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.
Lower and upper explosion limit	: Lower: 3% Upper: 18%
Flash point Auto-ignition temperature Decomposition temperature	 Closed cup: -40°C (-40°F) [Literature] 350°C (662°F) [Literature] Not available.
рН	: Not applicable.
pH : Justification	: Product is non-soluble (in water).
Viscosity	: Dynamic: Not applicable. Kinematic: Not applicable.

Solubility(ies)

Media		Result	
cold water hot water		Not soluble Not soluble	
Solubility in water	:	Not available.	
Partition coefficient: n-octanol/ water	:	Not applicable.	
Vapour pressure	:	420 kPa (3150 mm Hg) [calculated.]	
Evaporation rate	:	>1 (butyl acetate = 1) [Literature]	
Relative density	:	Not available.	
Density	:	1,05 g/cm³ [20°C (68°F)] [DIN 53217]	
Vapour density	:	>1 [Air = 1]	
Explosive properties	:	Highly explosive in the presence of the following materials or conditions: ope flames, sparks and static discharge, heat and shocks and mechanical impar Pressurised container: protect from sunlight and do not expose to temperate 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 or sunlight. Container explosion may occur under fire conditions or when heate Bursting aerosol containers may be propelled from a fire at high speed.	icts. ure direct
Oxidising properties	1	Not available.	
Particle characteristics			
Median particle size	:	Not applicable.	
ate of issue/Date of revision	: 06	6/11/2023 Date of previous issue : 29/09/2023 Version : 8.01	11/20

SECTION 9: Physical and chemical properties

9.2 Other information	
Heat of combustion	: 17,54 kJ/g
Aerosol product	
Type of aerosol	: Spray
SECTION 10: Stabilit	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
dimethyl ether	LC50 Inhalation Gas.	Mouse	386 ppm	0,5 hours
-	LC50 Inhalation Gas.	Rat	308000 mg/m ³	1 hours
	LC50 Inhalation Gas.	Rat	164000 ppm	4 hours
	LC50 Inhalation Vapour	Rat	309 g/m ³	4 hours
n-butyl acetate	LC50 Inhalation Dusts and	Rat - Male,	23,4 mg/l	4 hours
-	mists	Female	-	
	LC50 Inhalation Vapour	Rat	>21 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	9700 mg/m ³	4 hours
	LD50 Oral	Rat	14000 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	30,02 mg/l	4 hours
2	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Mouse	11700 mg/kg	-
	LD50 Oral	Rat - Male,	4016 mg/kg	-
		Female		
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	-
maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
,	LD50 Oral	Rat	400 mg/kg	-

Conclusion/Summary

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

Acute toxicity estimates

SECTION 11: Toxicological information

Ŭ					
Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
dimethyl ether	N/A	N/A	164000	309	N/A
n-butyl acetate	N/A	N/A	N/A	N/A	23,4
Quaternary ammonium compounds, C12-14 (even- numbered)-alkylethyldimethyl, ethyl sulphates	500	300	N/A	N/A	N/A
maleic anhydride	400	2620	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Zinc powder - zinc dust (stabilized)	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 Percent	-
Conclusion/Summary	·	·		·	
Skin	: Based on available data, the	classification c	riteria are	not met.	
Eyes	: Based on available data, the	classification c	riteria are	not met.	
Respiratory	: Based on available data, the	classification c	riteria are	not met.	
Sensitisation					
Conclusion/Summary					
Skin	: Based on available data, the	classification c	riteria are	not met.	
Respiratory	: Based on available data, the	classification c	riteria are	not met.	
<u>Mutagenicity</u>					
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
Carcinogenicity					
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
Reproductive toxicity					
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
Teratogenicity					
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
Specific target organ toxicit	<u>y (single exposure)</u>				

Product/ingredient nameCategoryRoute of
exposureTarget organsn-butyl acetateCategory 3-Narcotic effects1-methoxy-2-propanolCategory 3-Narcotic effectsEthylacetateCategory 3-Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
maleic anhydride	Category 1	inhalation	-

Aspiration hazard

Not available.

Information on likely routes : Routes of entry anticipated: Dermal, Inhalation, Eyes. of exposure Routes of entry not anticipated: Oral.

Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.

<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u> <u>Short term exposure</u>

<u>Short term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Long term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	: Not available.	
Potential chronic health effe	<u>ts</u>	
Not available.		
Conclusion/Summary	: Based on available data, the classification criteria are not met.	
General	: No known significant effects or critical hazards.	
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Reproductive toxicity	: No known significant effects or critical hazards.	

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Zinc powder - zinc dust (stabilized)	Acute EC50 106 µg/l Fresh water	Algae - <i>Pseudokirchneriella</i> <i>subcapitata</i> - Exponential growth phase	72 hours
	Acute EC50 0,572 mg/l Marine water	Ălgae - Ulva pertusa	96 hours
	Acute EC50 10000 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute LC50 107 µg/l Fresh water	Daphnia spec Daphnia pulex	48 hours
	Acute LC50 182 µg/l Fresh water	Fish - Oncorhynchus tshawytscha	96 hours
	Chronic EC10 27,3 µg/l Fresh water	Algae - <i>Pseudokirchneriella</i> <i>subcapitata</i> - Exponential growth phase	72 hours
	Chronic EC10 59,2 µg/l Fresh water	Daphnia spec Daphnia magna	21 days
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	Chronic NOEC 9 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 178 µg/l Marine water	Crustaceans - Palaemon elegans	21 days
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
1-methoxy-2-propanol	Acute EC50 >1000 mg/l	Algae - Selenastrum	7 days
	Ŭ	capricomutum	
	Acute EC50 23300 mg/l	Daphnia spec.	96 hours
	Acute LC50 6812 mg/l Fresh water	Fish	96 hours
Ethylacetate	Acute EC50 5600 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 165 mg/l Fresh water	Daphnia spec <i>Daphnia</i> <i>Cucullata</i>	48 hours
	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
maleic anhydride	Acute LC50 230000 µg/l Fresh water	Fish - Gambusia affinis - Adult	96 hours

Conclusion/Summary : Very toxic 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	-	-
1-methoxy-2-propanol	OECD 301E	96 % - Readily - 28 days	-	-
	OECD 301C	88 to 92 % - Readily - 28 days	-	-
	-	>90 % - Readily - 5 days	1,95 qO₂/g	-
			ThOD	
Ethylacetate	OECD 301D	70 % - Readily - 28 days	-	-
Conclusion/Summary	: This product	has not been tested for biodegrada	ation.	•

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-butyl acetate	-	-	Readily
1-methoxy-2-propanol	Fresh water <28 days, 5 to 25°C		Readily
Ethylacetate	-		Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
dimethyl ether	0,07	-	Low
n-butyl acetate	2,3	10	Low
1-methoxy-2-propanol	<1	<100	Low
Ethylacetate	0,68	30	Low
maleic anhydride	-2,78	-	Low

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

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SECTION 12: Ecological information

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

12.6 Endocrine disrupting properties

Not available.

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 Methods of disposal : The gener Disposal c with the re any region products v

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (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.

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. Marine pollutant	AEROSOLS, flammable
14.3 Transport hazard class(es)		2	2.1	2.1
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
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SECTION 14: Transport information

Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg. Limited quantity 1L	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Special provisions	The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg. <u>Emergency</u> <u>schedules</u> F-D,S-U	The environmentally hazardous substance mark may appear if required by other transportation regulations.
	Special provisions 190, 327, 344, 625 Tunnel code (D)	190, 327, 344, 625 <u>Remarks</u> : <u><</u> 1L: Limited Quantity	Special provisions 63, 190, 277, 327, 344, 381, 959 <u>Remarks</u> : ≤ 1L: Limited Quantity - IMDG 3.4	Quantity limitation

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.

14.7 Transport in bulk	
according to IMO	
instruments	

SECTION 15: Bogulatory information

SECTION 15: Regulatory information

: Not available.

:06/11/2023

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous</u> <u>substances, mixtures and articles</u>

Product/ingredient name	%	Designation [Usage]
Decamethylcyclopentasiloxane toluene benzene	≤0,1 ≤0,1 ≤0,1	70 48 [Consumer products] 5 72

Labelling

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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	: Listed
Explosive precursors	: This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

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SECTION 15: Regulatory information

United Kingdom: Great Britain

UK (GB)/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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants Not listed.

Aerosol dispensers



Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P3a E1	
E1	

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

International regulations

Stockholm Convention on Persistent Organic Pollutants

List name	Ingredient name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

List name		Ingredient name	Status	
Not listed.				
CN code : 3208	10 90 00	· · ·	L	
Inventory list				
Australia	: At least	At least one component is not listed.		
Canada	: Not dete	Not determined.		
China	: Not dete	Not determined.		
Eurasian Economic Union : Russian Federation inventory: Not determined.				

SECTION 15: Regulatory information

Japan	: Japan inventory (CSCL): At least one component is not listed. Japan inventory (ISHL): At least one component is not listed.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: At least one component is not listed.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement 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
	vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Aerosol 1, H222, H229	Expert judgment
Aquatic Acute 1, H400	Expert judgment
Aquatic Chronic 1, H410	Expert judgment

Full text of abbreviated H statements

United Kingdom: Great Britain

 H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. EUH018 In use may form flammable/explosive vapour-air mixture. EUH066 Repeated exposure may cause skin dryness or cracking. 	Full text of abbreviated H : statements	H222, Extrem H229 heated H225 Highly H226 Flamm H280 Conta H302 Harmf H311 Toxic H314 Cause H318 Cause H319 Cause H334 May c H336 May c H400 Very tr H410 Very tr	I. flammable liquid and vapour. nable liquid and vapour. ns gas under pressure; may e ul if swallowed. n contact with skin. s severe skin burns and eye e ause an allergic skin reaction. s serious eye damage. s serious eye damage. s serious eye irritation. ause allergy or asthma sympt d. ause drowsiness or dizziness. s damage to organs through oxic to aquatic life. oxic to aquatic life with long la may form flammable/explosiv	explode if heated. damage. toms or breathing difficulties if prolonged or repeated exposure. asting effects. ve vapour-air mixture.
EUH071 Corrosive to the respiratory tract.	Date of issue/Date of revision	EUH071 Corros	ive to the respiratory tract.	

SECTION 16: Other information

Full text of classifications [CLP/GHS]	:	Acute Tox. 3 Acute Tox. 4 Aerosol 1 Aquatic Acute 1 Aquatic Chronic 1 Eye Dam. 1 Eye Irrit. 2 Flam. Gas 1A Flam. Liq. 2 Flam. Liq. 3 Press. Gas (Comp.) Resp. Sens. 1 Skin Corr. 1B Skin Corr. 1C Skin Sens. 1A STOT RE 1 STOT SE 3	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 AEROSOLS - Category 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE GASES - Category 1A FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 GASES UNDER PRESSURE - Compressed gas RESPIRATORY SENSITISATION - Category 1 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN SENSITISATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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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.

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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.