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

# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 18 August 2023

**Version** : 1.02



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

1.1 Product identifier	
Product name	: SIGMAWELD 165 PASTE GREY(EXP)
Product code	: 00332249
Product description	:
Product type	: Liquid.
Other means of identification	: Not available.
1.2 Relevant identified uses	s of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

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

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person :

: Product.Stewardship.EMEA@ppg.com

#### responsible for this SDS

### 1.4 Emergency telephone number

<u>Supplier</u>

+31 20 4075210

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS

Flam. Liq. 2, H225 Eye Irrit. 2, H319 Repr. 2, H361d STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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

Hazard pictograms



#### Signal word

: Danger

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BIGMAWELD 165 PASTE GR	
SECTION 2: Hazards	Identification
Hazard statements	<ul> <li>Highly flammable liquid and vapour.</li> <li>Causes serious eye irritation.</li> <li>Suspected of damaging the unborn child.</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> <li>Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour.
Response	: Collect spillage.
Storage	: Not applicable.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P260, P391, P501</li> </ul>
Supplemental label elements	: 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	<u>ients</u>
Containers to be fitted	: Not applicable.

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

Mixture

vPvB.

#### 3.2 Mixtures

with child-resistant

Product meets the criteria

for PBT or vPvB according

not result in classification

to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do

Tactile warning of danger : Not applicable.

fastenings

2.3 Other hazards

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Product/ingredient name	Identifiers	%	Classification	Туре
01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5Eye Irrit. 2, H319crystalline silica, respirable powder (<10 microns)	zínc powder zinc dust (stabilised)	01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6	≥25 - ≤50	(M=1) Aquatic Chronic 1,	[1]
(<10 microns)	ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5	≥10 - ≤25		[1] [2]
1-methoxy-2-propanol         REACH #: 01-2119457435-35         ≥5.0 - ≤7.6         Flam. Liq. 3, H226         [1]			≥10 - ≤25	,	[1] [2]
CAS: 107-98-2 Index: 603-064-00-3	· · · · · · · · · · · · · · · · · · ·	01-2119457435-35 EC: 203-539-1 CAS: 107-98-2	≥5.0 - ≤7.6	Flam. Liq. 3, H226	[1] [2]

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

: Prolonged or repeated contact may dry skin and cause irritation.

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SECTION 3: Con	nposition/information on	ingredients		
propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥1.0 - ≤6.9	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥1.0 - ≤5.0	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
			See Section 16 for the full text of the H statements declared above.	

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

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

#### 4.1 Description of first aid measures

Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important s	symptoms and effects, both acute and delayed
Potential acute healt	h effects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure sig</u>	ns/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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SECTION 4: Fir	st aid measures		
Inhalation	: Adverse sym reduced foeta increase in fo skeletal malfo	etal deaths	
Skin contact	: Adverse sym irritation dryness cracking reduced foeta increase in fo skeletal malfo	etal deaths	
Ingestion	: Adverse sym reduced foeta increase in fo skeletal malfo	etal deaths	

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
	<b>A</b>

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

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

Hazards from the substance or mixture	:	Highly flammable liquid and vapour. 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. 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 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.

# **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. 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.

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<b>SECTION 6: Accident</b>	al release measures
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	containment 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.
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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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

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#### **SECTION 7: Handling and storage**

Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected 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. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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

#### 8.1 Control parameters

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values			
ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 1920 mg/m <sup>3</sup> 8 hours.			
crystalline silica, respirable powder (<10 microns)	TWA: 1000 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica, respirable crystalline respirable fraction]			
1-methoxy-2-propanol	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed			
	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.			
propan-2-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 1250 mg/m <sup>3</sup> 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m <sup>3</sup> 8 hours. TWA: 400 ppm 8 hours.			
toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 384 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 191 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.			
Product/ingredient name	Exposure indices			
Recommended monitoring : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.				

#### **DNELs/DMELs**

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
zinc powder zinc dust (stabilised)	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
· · · · · · · · · · · · · · · · · · ·	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
ethanol	DNEL	Long term Oral	87 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	114 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	950 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	950 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	1900 mg/m <sup>3</sup>	Workers	Local
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	43.9 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	369 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/m³	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/m³	Workers	Systemic
propan-2-ol	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	89 mg/m³	General population	Systemic
	DNEL	Long term Dermal	319 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	500 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic
toluene	DNEL	Long term Oral	8.13 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	56.5 mg/m³	General population	Local
	DNEL	Long term Inhalation	56.5 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Local
	DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic
zinc oxide	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Local
	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
zinc powder zinc dust (stabilised)	Fresh water	20.6 µg/l	Sensitivity Distribution
	Marine water	6.1 µg/l	Sensitivity Distribution
	Sewage Treatment Plant	100 µg/l	Assessment Factors
	Fresh water sediment	118 mg/kg dwt	Sensitivity Distribution
	Marine water sediment	56.5 mg/kg dwt	Equilibrium Partitioning
	Soil	35.6 mg/kg dwt	Sensitivity Distribution
ethanol	Fresh water	0.96 mg/l	Assessment Factors
	Marine water	0.79 mg/l	Assessment Factors
	Sewage Treatment Plant	580 mg/l	Assessment Factors
	Fresh water sediment	3.6 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	2.9 mg/kg dwt	Equilibrium Partitioning
	Soil	0.63 mg/kg dwt	Assessment Factors
1-methoxy-2-propanol	Fresh water	10 mg/l	Assessment Factors
	Marine water	1 mg/l	Assessment Factors
	Sewage Treatment Plant	100 mg/l	Assessment Factors
English (GB)	United Kingdom (UK	()	7/16

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

	Fresh water sediment	41.6 mg/kg	Equilibrium Partitioning
	Marine water sediment	4.17 mg/kg	Equilibrium Partitioning
	Soil	2.47 mg/kg	Equilibrium Partitioning
propan-2-ol	Fresh water	140.9 mg/l	Assessment Factors
	Marine water	140.9 mg/l	Assessment Factors
	Secondary Poisoning	160 mg/kg	-
	Fresh water sediment	552 mg/kg dwt	-
	Marine water sediment	552 mg/kg dwt	-
	Sewage Treatment Plant	2251 mg/l	Assessment Factors
	Soil	28 mg/kg dwt	-
toluene	Fresh water	0.68 mg/l	Sensitivity Distribution
	Marine water	0.68 mg/l	Sensitivity Distribution
	Sewage Treatment Plant	13.61 mg/l	Sensitivity Distribution
	Fresh water sediment	16.39 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	16.39 mg/kg dwt	-
zinc oxide	Fresh water	20.6 µg/l	Sensitivity Distribution
	Marine water	6.1 µg/l	Sensitivity Distribution
	Fresh water sediment	117 mg/kg dwt	Sensitivity Distribution
	Sewage Treatment Plant	52 µg/l	Assessment Factors
	Marine water sediment	56.5 mg/kg dwt	Assessment Factors
	Soil	35.6 mg/kg dwt	Sensitivity Distribution

8.2 Exposure controls	
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 meas	<u>ures</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 Skin protection	: Chemical splash goggles.
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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. 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.
Gloves	: For prolonged or repeated handling, use the following type of gloves: Recommended: butyl rubber, nitrile rubber
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.

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Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
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.

# **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

<u>Appearance</u>				
Physical state	: Liqu	uid.		
Colour	: Gre	ey.		
Odour	: Aro	matic.		
Odour threshold	: Not	available.		
Melting point/freezing point	data		0	mperature: -90°C (-130°F) This is based on opyl alcohol. Weighted average: -101.24°C
Initial boiling point and boiling range	: >37	7.78°C (>100°F)		
Flammability (solid, gas)	: liqu	id		
Upper/lower flammability or explosive limits	: Gre	atest known rar	nge: Lower: 3.3%	Jpper: 19% (ethanol)
Flash point	: Clo	sed cup: 13°C (	55.4°F)	
Auto-ignition temperature	:			
Ingredient name		°C	°F	Method
1-methoxy-2-propanol		270	518	

Decomposition temperature	11	
рН		Not applicable. Not applicable. insoluble in water.
Viscosity		Kinematic (40°C): >21 mm <sup>2</sup> /s
Solubility(ies)	:	
Media		Result
cold water		Not soluble
Miscible with water	:	No.
Partition coofficient: n octanol		Not applicable

Partition coefficient: n-octanol/ : Not applicable. water

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#### Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
ethanol	42.95	5.7				

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

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Relative density	: 1.97
Vapour density	<ul> <li>Highest known value: 3.11 (Air = 1) (1-methoxy-2-propanol). Weighted average: 2.32 (Air = 1)</li> </ul>
Explosive properties	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
Oxidising properties	: Product does not present an oxidizing hazard.
Particle characteristics	
Median particle size	: Not applicable.
•	

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredie	ents.
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	r.
10.4 Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition p Refer to protective measures listed in sections 7 and 8.	roducts.
10.5 Incompatible materials	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.	:
10.6 Hazardous decomposition products	Evolves hydrogen on contact with water. Depending on conditions, decomposi products may include the following materials: carbon oxides metal oxide/oxide	

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
zinc powder zinc dust	LC50 Inhalation Dusts and	Rat	>5.4 mg/l	4 hours
(stabilised)	mists			
, , , , , , , , , , , , , , , , , , ,	LD50 Oral	Rat	>2000 mg/kg	-
ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	17100 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
propan-2-ol	LC50 Inhalation Vapour	Rat	72600 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m <sup>3</sup>	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary	: There are no data available o	n the mixture itse	if.	•

Acute toxicity estimates

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# **SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
ethanol	7000	17100	N/A	124.7	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
propan-2-ol	5045	12800	N/A	72.6	N/A
toluene	5580	8390	N/A	49	N/A

#### Irritation/Corrosion

Conclusion/Summary Skin	<ul><li>Not available.</li><li>There are no data available on the mixture itself.</li></ul>
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitisation	
<b>Conclusion/Summary</b>	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<b>Mutagenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	1 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (

There are no data available on the mixture itself.

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

Product/ingredient name	Category	Route of exposure	Target organs
1-methoxy-2-propanol	Category 3	-	Narcotic effects
propan-2-ol	Category 3		Narcotic effects
toluene	Category 3		Narcotic effects

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

Product/ingredient name	Category	Route of exposure	Target organs
	Category 1 Category 2	inhalation -	-

#### **Aspiration hazard**

Product/ingredient name	Result
toluene	ASPIRATION HAZARD - Category 1

Information on likely routes : Not available.

#### of exposure

# Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
	0
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.

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Symptoms related to th	e physical, chemical and toxicological characteristics			
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness			
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations			
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations			
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations			

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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 eff	<u>zts</u>	
Not available.		
<b>Conclusion/Summary</b>	: Not available.	
General	: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.	
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Reproductive toxicity	: Suspected of damaging the unborn child.	

# : Not available. **SECTION 12: Ecological information**

# 12.1 Toxicity

Other information

Product/ingredient name	Result	Species	Exposure
zínc powder zinc dust (stabilised)	Acute EC50 0.106 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.0727 mg/l Fresh water	Daphnia - <i>Daphnia Magna</i>	21 days
ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia magna</i>	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water	Daphnia - Daphnia Fish - Goldfish	48 hours 96 hours
propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> <i>magna</i>	48 hours
English (GB)	United Kingdon	n (UK)	12/1

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# **SECTION 12: Ecological information**

zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		<i>magna</i> - Neonate	
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours

**Conclusion/Summary** : Not available.

#### 12.2 Persistence and degradability

Conclusion/Summary	: Not available.
--------------------	------------------

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanol	-	-	Readily
toluene	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethanol	-0.35	-	Low
1-methoxy-2-propanol	<1	-	Low
propan-2-ol	0.05	-	Low
toluene	2.73	8.32	Low

#### 12.4 Mobility in soil

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

#### 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 Other adverse effects** : No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

: 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.
: Yes.
Waste designation
waste paint and varnish containing organic solvents or other hazardous substances
<ul> <li>The generation of waste should be avoided or minimised wherever possible. Wast packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.</li> </ul>
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### **SECTION 13: Disposal considerations**

Type of packaging	Waste catalogue		
Container	15 01 06	mixed packaging	
Special precautions	taken when Empty conta residues ma container. I thoroughly i	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned nternally. Avoid dispersal of spilt material and runoff and contact with ays, drains and sewers.	

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	11	11	Π
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Zinc powder - zinc dust (stabilized), zinc oxide)	Not applicable.

#### **Additional information**

ADR/RID	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
ADN	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

**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

#### : Not available.

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

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

None of the components are listed.

#### Ozone depleting substances

Not listed.

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

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### **Danger criteria**

Category	
P5c	
E1	

#### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
Quartz (SiO2)	UK Occupational Exposure Limits EH40 - WEL	silica, respirable crystalline respirable fraction	Carc.	-

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

A la la secola d'activa de la secola	
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and
	Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
	No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB 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

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Eye Irrit. 2, H319	Calculation method
Repr. 2, H361d	Calculation method
STOT RE 1, H372	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

United Kingdom (UK)

Code : 003322 SIGMAWELD 165 PAS	
SECTION 16: Of	ner information
	oxic to aquatic life. oxic to aquatic life with long lasting effects.
Full text of classificati	ins in the second se
Aquatic Acute 1 Aquatic Chronic 1 Asp. Tox. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Irrit. 2 STOT RE 1 STOT RE 2 STOT SE 3	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u> Date of issue/ Date of revision Date of previous issue Prepared by Version	<ul> <li>18 August 2023</li> <li>23 February 2023</li> <li>EHS</li> <li>1.02</li> </ul>

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