

SAFETY DATA SHEET

G5 RESIN

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier	
Product name	G5 RESIN
Product number	G5R
1.2. Relevant identified uses of	of the substance or mixture and uses advised against
Identified uses	Resin.
Uses advised against	No specific uses advised against are identified.
1.3. Details of the supplier of the supplicit states and the supplicit states are supplied as the supplicit states are supplicit. The supplicit states are supplicit. The supplicit states are supplicit states are supplicit states are supplicit states are supplicit. The supplicit states are supplicit states are supplicit states are supplicit. The supplicit states are supplicit states are supplicit states are supplicit states are supplicit. The supplicit states are supplicit states are supplicit states are supplicit. The supplicit states are supplicit states are supplicits are supplicit. The	the safety data sheet
Supplier	Wessex Resins & Adhesives Cupernham House Cupernham Lane Romsey Hampshire S051 7LF Tel+44(0)1794 521111 Fax+44(0)1794 521271 info@wessex-resins.com
1.4. Emergency telephone nu	mber
Emergency telephone	+44(0)207 858 1228
SECTION 2: Hazards identific	ation
2.1. Classification of the subs	tance or mixture
Classification (EC 1272/2008)	
Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317
Environmental hazards	Aquatic Chronic 2 - H411
Human health	The liquid is irritating to eyes and skin. The product contains a sensitising substance. See Section 11 for additional information on health hazards.
Environmental	The product contains a substance which may have hazardous effects on the environment.
2.2. Label elements	
Pictogram	

Signal word	Warning
Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	 P102 Keep out of reach of children. P273 Avoid release to the environment. P280 Wear protective gloves, eye and face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container in accordance with national regulations.
Contains	Epoxy resin (Number average MW <= 700)
Supplementary precautionary statements	 P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances			
Epoxy resin (Number average MW	/ <= 700)		100%
CAS number: 25068-38-6	EC number: 500-033-5	REACH registration number: 01- 2119456619-26-0000	
Classification			
Skin Irrit. 2 - H315			
Eye Irrit. 2 - H319			
Skin Sens. 1 - H317			
Aquatic Chronic 2 - H411			

The full text for all hazard statements is displayed in Section 16.

G5 RESIN

Product name

SECTION 4: First aid measures

4.1. Description of first aid measures

General informationGet medical attention immediately. Show this Safety Data Sheet to the medical personnel.InhalationRemove affected person from source of contamination. Move affected person to fresh air and
keep warm and at rest in a position comfortable for breathing. Maintain an open airway.
Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained
personnel may assist affected person by administering oxygen. Place unconscious person on
their side in the recovery position and ensure breathing can take place.

Ingestion	Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin contact	It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.
4.2. Most important symptoms	and effects, both acute and delayed
General information	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion	May cause discomfort if swallowed.
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.
Eye contact	Irritating to eyes.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from	om the substance or mixture
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
5.3. Advice for firefighters	

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautionsNo action shall be taken without appropriate training or involving any personal risk. Keep
unnecessary and unprotected personnel away from the spillage. Wear protective clothing as
described in Section 8 of this safety data sheet. Follow precautions for safe handling
described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure
procedures and training for emergency decontamination and disposal are in place. Do not
touch or walk into spilled material. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from light.
Storage class	Miscellaneous hazardous material storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure Contr	rols/personal protection
8.1. Control parameters	
Ingredient comments	No exposure limits known for ingredient(s).
8.2. Exposure controls	
Protective equipment	
Appropriate engineering controls	Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. Wear protective gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.13 mm The selected gloves should have a breakthrough time of at least 0.5 hours.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Combination filter, type A2/P2.
Environmental exposure controls	Avoid discharge to the aquatic environment. Keep container tightly sealed when not in use.
SECTION 9: Physical and C	hemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Water-white.
Odour	Mild.

Odour threshold	Not determined.	
рН	Not determined.	
Melting point	Not determined.	
Initial boiling point and range	Not determined.	
Flash point	> 100°C Closed cup.	
Evaporation rate	Not determined.	
Evaporation factor	Not determined.	
Upper/lower flammability or explosive limits	Not determined.	
Vapour pressure	Not determined.	
Vapour density	Not determined.	
Relative density	1.16 @ 20°C	
Bulk density	Not determined.	
Solubility(ies)	Slightly soluble in water.	
Partition coefficient	log Pow: \geq 2.918 REACH dossier information.	
Auto-ignition temperature	Not determined.	
Decomposition Temperature	Not determined.	
Viscosity	Not determined.	
Explosive properties	Not determined.	
Oxidising properties	Does not meet the criteria for classification as oxidising.	
9.2. Other information		
Other information	Not known.	
SECTION 10: Stability and rea	activity	
10.1. Reactivity		
Reactivity	There are no known reactivity hazards associated with this product.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended.	
10.3. Possibility of hazardous reactions		
Possibility of hazardous reactions	None known.	
10.4. Conditions to avoid		
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.	
10.5. Incompatible materials		
Materials to avoid	Strong acids. Strong alkalis. Strong oxidising agents.	
10.6. Hazardous decompositio	on products	
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.	

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity - oral	
Notes (oral LD₅₀)	> 2000 mg/kg Rat REACH dossier information. Based on available data the classification criteria are not met.
Acute toxicity - dermal Notes (dermal LD₅₀)	> 2000 mg/kg Rat REACH dossier information. Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC ₅₀)	Data lacking.
Skin corrosion/irritation Animal data	Dose: 0.5ml, 4 hr, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Irritating to skin.
Serious eye damage/irritation Serious eye damage/irritation	Irritating to eyes.
Respiratory sensitisation Respiratory sensitisation	No information available.
Skin sensitisation Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information. May cause sensitisation by skin contact.
Germ cell mutagenicity	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. This substance has no evidence of mutagenic properties.
Carcinogenicity Carcinogenicity	NOAEL 100 mg/kg, Oral, Rat REACH dossier information. There is no evidence that the product can cause cancer.
Reproductive toxicity	
Reproductive toxicity - fertility	Two-generation study - NOAEL 20 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.
Reproductive toxicity - development	Maternal toxicity: - NOAEL: 180 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
Specific target organ toxicity -	single exposure
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity -	repeated exposure
STOT - repeated exposure	NOAEL 50 mg/kg, Oral, Rat REACH dossier information. Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard	
Aspiration hazard	Based on available data the classification criteria are not met.
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion	May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.	
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.	
Eye contact	Irritating to eyes.	
Route of exposure	Ingestion Inhalation Skin and/or eye contact	
SECTION 12: Ecological Infor	mation	
Ecotoxicity	Dangerous for the environment if discharged into watercourses.	
12.1. Toxicity		
Toxicity	Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.	
Acute aquatic toxicity Acute toxicity - fish	LC₅₀, 96 hours: 1.2 mg/l, Oncorhynchus mykiss (Rainbow trout) REACH dossier information.	
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 2.8 mg/l, Daphnia magna REACH dossier information.	
Acute toxicity - aquatic plants	EC₅₀, 72 hours: 9.4 mg/l, Selenastrum capricornutum REACH dossier information.	
Acute toxicity - microorganisms	IC50, 3 hours >: 100 mg/l, Activated sludge REACH dossier information.	
12.2. Persistence and degrada	ability	
Phototransformation	Water - DT₅₀ : 6.44 hours Estimated value. REACH dossier information.	
Biodegradation	Water - Degradation (%) 5: 28 days REACH dossier information. No biodegradation observed under test conditions.	
12.3. Bioaccumulative potentia	al	
Bioaccumulative potential	The product is not bioaccumulating. BCF: ~ 31, Estimated value. REACH dossier information.	
Partition coefficient	log Pow: \geq 2.918 REACH dossier information.	
12.4. Mobility in soil		
Mobility	Slightly soluble in water.	
Adsorption/desorption coefficient	Water - log Koc: ~ 2.65 @ 20°C Estimated value. REACH dossier information.	
Surface tension	58.7 mN/m @ 20°C REACH dossier information.	
12.5. Results of PBT and vPvB	12.5. Results of PBT and vPvB assessment	
Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.	
12.6. Other adverse effects		
Other adverse effects	None known.	
SECTION 13: Disposal consid	erations	
13.1. Waste treatment methods		

General information	The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible. Do not discharge into drains or watercourses or onto the ground.

SECTION 14: Transport information	
14.1. UN number	
UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (ADN)	3082
14.2. UN proper shipping name	
Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy resin (Number average MW <= 700))
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy resin (Number average MW <= 700))
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy resin (Number average MW <= 700))
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy resin (Number average MW <= 700))
14.3. Transport hazard class(e	<u>s)</u>
ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9
Transport labels	

14.4. Packing group	king group
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ADR/RID packing group	
IMDG packing group	III
ADN packing group	

ICAO packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

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14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(-)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC₅₀: Lethal Concentration to 50 % of a test population. LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose). EC₅₀: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations and acronyms	Eye Irrit. = Eye irritation Skin Irrit. = Skin irritation Skin Sens. = Skin sensitisation Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Key literature references and sources for data	Source: European Chemicals Agency, http://echa.europa.eu/
Classification procedures according to Regulation (EC) 1272/2008	Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: Skin Sens. 1 - H317: : Expert judgement. Aquatic Chronic 2 - H411: : Expert judgement.
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
Revision date	24/05/2018
Revision	3
Supersedes date	01/02/2017
SDS number	10360
Hazard statements in full	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



SAFETY DATA SHEET

G5 HARDENER

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	G5 HARDENER
Product number	G5H
1.2. Relevant identified uses	of the substance or mixture and uses advised against
Identified uses	Hardener.
Uses advised against	No specific uses advised against are identified.
1.3. Details of the supplier of	f the safety data sheet
Supplier	Wessex Resins & Adhesives Cupernham House Cupernham Lane Romsey Hampshire S051 7LF Tel+44(0)1794 521111 Fax+44(0)1794 521271 info@wessex-resins.com
1.4. Emergency telephone n	umber
Emergency telephone	+44(0)207 858 1228
SECTION 2: Hazards identif	ication
2.1. Classification of the sub-	stance or mixture
Classification (EC 1272/2008	_
Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
Environmental hazards	Not Classified
Human health	The liquid is irritating to eyes and skin. See Section 11 for additional information on health hazards.
Environmental	The product is not expected to be hazardous to the environment.
Physicochemical	Not classified.
2.2. Label elements	

Pictogram



Signal word	Warning
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary statements	 P102 Keep out of reach of children. P280 Wear protective gloves, eye and face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.
Supplementary precautionary statements	P264 Wash contaminated skin thoroughly after handling. P332+P313 If skin irritation occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients	
	5-10
	CH registration number: 01- 560597-27-0000
	1-5'
EC number: 275-162-0	
	EC number: 202-013-9 REAC 21195

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

products	sulphide (H2S).
Hazardous combustion	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of: Sulphur. Hydrogen
5.2. Special nazards ansing in Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.
5.2. Special hazards arising fr	om the substance or mixture
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
5.1. Extinguishing media	
SECTION 5: Firefighting measurements	sures
Notes for the doctor	Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.
4.3. Indication of any immedia	te medical attention and special treatment needed
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin.
Ingestion	May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.
4.2. Most important symptoms General information	s and effects, both acute and delayed See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
	resuscitation.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Skin contact	It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.
Ingestion	Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Approach the spillage from upwind. Small Spillages: Collect spillage. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handlingUsage precautionsRead and follow manufacturer's recommendations. Wear protective clothing as described in
Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs.
Handle all packages and containers carefully to minimise spills. Keep container tightly sealed
when not in use. Avoid the formation of mists. Do not handle until all safety precautions have
been read and understood. Do not handle broken packages without protective equipment. Do
not reuse empty containers.Advice on general
occupational hygieneWash promptly if skin becomes contaminated. Take off contaminated clothing. Wash
contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Wash at the end of each work shift and before eating, smoking and using the toilet. Change
work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

7.2. Conditions for sale stora	ge, including any incompatibilities
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Protect from light. Store away from the following materials: Acids. Oxidising materials.
Storage class	Chemical storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure Contr	ols/personal protection
8.1. Control parameters	
Ingredient comments	No exposure limits known for ingredient(s).
8.2. Exposure controls	
Protective equipment	
Appropriate engineering controls	Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. Wear protective gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.13 mm The selected gloves should have a breakthrough time of at least 0.5 hours.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Combination filter, type A2/P2.
Environmental exposure controls	Not regarded as dangerous for the environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Colour	Light (or pale). Amber.	
Odour	Fishy.	
Odour threshold	Not determined.	
рН	Not determined.	
Melting point	Not determined.	
Initial boiling point and range	Not determined.	
Flash point	> 100°C Closed cup.	
Evaporation rate	Not determined.	
Evaporation factor	Not determined.	
Upper/lower flammability or explosive limits	Not determined.	
Vapour pressure	Not determined.	
Vapour density	Not determined.	
Relative density	1.15 @ 20°C	
Bulk density	Not determined.	
Solubility(ies)	Slightly soluble in water.	
Partition coefficient	Not determined.	
Auto-ignition temperature	Not determined.	
Decomposition Temperature	Not determined.	
Viscosity	Not determined.	
Explosive properties	Not determined.	
Oxidising properties	Does not meet the criteria for classification as oxidising.	
9.2. Other information		
Other information	Not known.	
SECTION 10: Stability and rea	activity	
10.1. Reactivity		
Reactivity	Stable under the prescribed storage conditions.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended.	
10.3. Possibility of hazardous		
Possibility of hazardous reactions	None known.	
10.4. Conditions to avoid		
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.	
10.5. Incompatible materials		
Materials to avoid	Strong oxidising agents.	

10.6. Hazardous decomposition products

Hazardous decompositionFire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of the followingproductssubstances: Sulphur. Hydrogen sulphide (H2S).

p	
SECTION 11: Toxicological inf	formation
11.1. Information on toxicologi	cal effects
<u>Acute toxicity - oral</u> Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
Ϋ́Υ, Ϋ́Υ,	
ATE oral (mg/kg)	5,882.35
Acute toxicity - dermal	
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Animal data	Irritating.
Serious eye damage/irritation	
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory sensitisation	
Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation	
Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Based on available data the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity -	Based on available data the classification criteria are not met.
development	
Specific target organ toxicity -	single exposure
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity -	repeated exposure
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard	
Aspiration hazard	Based on available data the classification criteria are not met.
General information	The severity of the symptoms described will vary dependent on the concentration and the
	length of exposure.
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion	May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.
Eye contact	Irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
Medical considerations	Skin disorders and allergies.

Toxicological information on ingredients.

2,4,6-tris(dimethylaminomethyl)phenol

		<u></u>
	Acute toxicity - oral	
	Notes (oral LD₅₀)	Harmful if swallowed.
	ATE oral (mg/kg)	500.0
	Skin sensitisation	
	Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.
	Germ cell mutagenicity	
	Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.
	Reproductive toxicity	
	Reproductive toxicity - fertility	 NOAEL > 15 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
	Specific target organ toxici	ty - repeated exposure
	STOT - repeated exposure	 NOAEL > 15 mg/kg, Oral, Rat REACH dossier information. Not classified as a specific target organ toxicant after repeated exposure.
		Bis[(dimethylamino)methyl]phenol
	Toxicological effects	No information available.
SECTION 1	2: Ecological Information	
Ecotoxicity	•	arded as dangerous for the environment. However, large or frequent spills may have ous effects on the environment.
12.1. Toxici	ity	
Toxicity	frequent	duct components are not classified as environmentally hazardous. However, large or t spills may have hazardous effects on the environment. There are no data on the city of this product.
Ecological i	nformation on ingredients.	
		2,4,6-tris(dimethylaminomethyl)phenol
	Acute aquatic toxicity	
	Acute toxicity - fish	LC₅₀, 96 hours: < 240 mg/l, Freshwater fish

	Acute toxicity - aquatic invertebrates	LC50, 96 hours: 718 mg/l, Marinewater invertebrates REACH dossier information.
	Acute toxicity - aquatic plants	EC₅₀, 72 hours: 84 mg/l, Scenedesmus subspicatus REACH dossier information.
		Bis[(dimethylamino)methyl]phenol
	Toxicity	There are no data on the ecotoxicity of this product.
12.2. Persis	stence and degradability	
Persistence	and degradability There a	re no data on the degradability of this product.
Ecological i	nformation on ingredients.	
		2,4,6-tris(dimethylaminomethyl)phenol
	Biodegradation	Water - Degradation (%) 4: 28 days
		REACH dossier information. The product is not readily biodegradable.
		Bis[(dimethylamino)methyl]phenol
	Persistence and degradability	There are no data on the degradability of this product.
12.3. Bioac	cumulative potential	
Bioaccumu	lative potential No data	available on bioaccumulation.
Partition co	efficient Not dete	ermined.
Ecological i	nformation on ingredients.	
		2,4,6-tris(dimethylaminomethyl)phenol
	Bioaccumulative potential	No data available on bioaccumulation.
	Partition coefficient	Pow: \geq 0.219 REACH dossier information.
		Bis[(dimethylamino)methyl]phenol
	Bioaccumulative potential	No data available on bioaccumulation.
12.4. Mobil	ity in soil	
Mobility	No infor	mation available.
Ecological i	nformation on ingredients.	
		2,4,6-tris(dimethylaminomethyl)phenol
	Mobility	The product is water-soluble and may spread in water systems.
		Bis[(dimethylamino)methyl]phenol
	Mobility	No information available.
12.5. Resu	ts of PBT and vPvB assessn	nent
Results of I assessmen		duct does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

2,4,6-tris(dimethylaminomethyl)phenol

Results of PBT and vPvB	3 This substance is not classified as PBT or vPvB according to current EU criteria	
assessment		

Bis[(dimethylamino)methyl]phenol

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria. assessment

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

Transport labels

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National regulations	Health and Safety at Work etc. Act 1974 (as amended).
	The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment
	Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
	EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18
	December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of
	Chemicals (REACH) (as amended).
	Commission Regulation (EU) No 2015/830 of 28 May 2015.
	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16
	December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC₅₀: Lethal Concentration to 50 % of a test population. LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose). EC₅₀: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations and acronyms	Eye Irrit. = Eye irritation Skin Irrit. = Skin irritation Skin Sens. = Skin sensitisation
Key literature references and sources for data	Source: European Chemicals Agency, http://echa.europa.eu/
Classification procedures according to Regulation (EC) 1272/2008	Skin Irrit. 2 - H315, Eye Irrit. 2 - H319: Calculation method.
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
Revision date	24/05/2018

Revision	4
Supersedes date	24/05/2018
SDS number	10038
Hazard statements in full	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.