

1.4 Emergency telephone number

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

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

1.1 Product identifier

Product name : Hemucryl Ename	
Product identity :	5810000010, 000FE700
Product type :	acrylic paint

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

Field of application :	metal industry, ships and shipyards.
Identified uses :	Consumer applications, Industrial applications, Used by spraying.

1.3 Details of the supplier of the safety data sheet

Company details :	Hempel UK Ltd Berwyn House, The Pavilions Llantarnam Park Cwmbran South Wales NP44 3FD Telephone: 01633 833600	Emergency telephone number (with hours of operation) UK: 01633 833600 (08.00 - 17.00) Ireland: 01 809 2166 (National Poisons Information Centre, Monday-Sunday; 08:00-22:00) See Section 4 of the safety data sheet (first aid measures).
Date of issue : Date of previous issue :	hempel@hempel.com 17 January 2024 22 December 2022.	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition :	Mixture
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Classification according to	UK CLP/GHS
<mark>\$</mark> kin Sens. 1, H317	SKIN SENSITISATION

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

2.2 Label elements

Hazard pictograms :



Signal word :	Warning
Hazard statements :	₩317 - May cause an allergic skin reaction.
Precautionary statements :	
General :	Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention :	Wear protective gloves. Avoid breathing vapour.
Response :	Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
	Store locked up.
Disposal :	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients :	2-benzisothiazol-3(2H)-one 2-methylisothiazol-3(2H)-one reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Supplemental label elements :	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Special packaging requirements	
Containers to be fitted with child- resistant fastenings :	Not applicable.
Tactile warning of danger :	Not applicable.



SECTION 2: Hazards identification

2.3 Other hazards

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

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product/ingredient name	Identifiers	%	GB CLP Classification	Туре
jitanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≥10 - ≤25	Carc. 2, H351 (inhalation)	[1] [*]
propyleneglycol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≤5	Not classified.	[2]
trimethylolpropane	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd	[1]
ammonia	REACH #: 01-2119488876-14 EC: 215-647-6 CAS: 1336-21-6 Index: 007-001-01-2	≤0.3	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1)	[1] [2]
1,2-benzisothiazol-3(2H)-one	REACH #: 01-2120761540-60 EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1)	[1]
2-methylisothiazol-3(2H)-one	REACH #: 01-2120764690-50 EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9	<0.01	Acute Tox. 3, H301 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) EUH071	[1]
reaction mass of 5-chloro- 2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol- 3-one (3:1)	REACH #: 01-2120764691-48 CAS: 55965-84-9 Index: 613-167-00-5	<0.0015	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071	[1]
zinc pyrithione	REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7 Index: 613-333-00-7	<0.01	Acute Tox. 3, H301 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=10)	[1]

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 and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit, see section 8.

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter \leq 10 μ m not bound within a matrix.



SECTION 4: First aid measures

4.1 Description of first aid measures

General :	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
	If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 112 and give immediate treatment (first aid).
Eye contact :	beck for and remove any contact lenses. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. In all cases of doubt, or when symptoms persist, seek medical attention.
Inhalation :	Remove to fresh air and keep at rest in a position comfortable for breathing. Give nothing by mouth. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately.
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 this container or label. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so that vomit will not re-enter the mouth and throat.
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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects	
Eye contact :	No known significant effects or critical hazards.
Inhalation :	No known significant effects or critical hazards.
Skin contact :	May cause an allergic skin reaction.
Ingestion :	No known significant effects or critical hazards.
Over-exposure signs/symptoms	
Eye contact :	No specific data.
Inhalation :	No specific data.
Skin contact :	Adverse symptoms may include the following: irritation redness
Ingestion :	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

 Notes to physician :
 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

 Specific treatments :
 No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Extinguishing media :	Recommended: alcohol resistant foam, CO_2 , powders, water spray. Not to be used : waterjet.	
5.2 Special hazards arising from the substance or mixture		

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. Hazardous combustion products : Decomposition products may include the following materials: carbon oxides metal oxide/oxides

5.3 Advice for firefighters

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. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. 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.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Woid all direct contact with the spilled material. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.2 Environmental precautions

Woid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. 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). Contaminated absorbent material may pose the same hazard as the spill 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

7.1 Precautions for safe handling

Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

Storage : Do not store below the following temperature: 5 °C

7.3 Specific end use(s)

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Product/ingredient name	Exposure limit values
propyleneglycol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Particulate TWA: 150 ppm 8 hours. Form: total vapour and particulates TWA: 474 mg/m ³ 8 hours. Form: total vapour and particulates
ammonia	EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia] STEL: 25 mg/m ³ 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous TWA: 25 ppm 8 hours. Form: anhydrous TWA: 18 mg/m ³ 8 hours. Form: anhydrous

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical 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.

Derived effect levels



SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
trimethylolpropane	DNEL	Long term Dermal	0.94 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.3 mg/m ³	Workers	Systemic
ammonia	DNEL	Long term Dermal	68 mg/kg	Workers	Systemic
	DNEL	Long term Inhalation	47.6 mg/m ³	Workers	Systemic
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.966 mg/kg bw/day	Workers	Systemic
. ,	DNEL	Long term Inhalation	6.81 mg/m³	Workers	Systemic

Predicted effect concentrations

Product/ingredient name	Compartment Detail	Value	Method Detail
propyleneglycol	Fresh water	260 mg/l	-
	Marine water	26 mg/l	-
	Sewage Treatment Plant	20000 mg/l	-
	Fresh water sediment	572 mg/kg	-
	Marine water sediment	57.2 mg/kg	-
	Soil	50 mg/kg	-
ammonia	Fresh water	0.0011 mg/l	-
	Marine water	0.0011 mg/l	-
1,2-benzisothiazol-3(2H)-one	Fresh water	0.00403 mg/l	-
	Marine water	0.000403 mg/l	-
	Sewage Treatment Plant	1.03 mg/l	-
	Fresh water sediment	0.0499 mg/kg dwt	-
	Marine water sediment	0.00499 mg/kg dwt	-
	Soil	3 mg/kg dwt	-
2-methylisothiazol-3(2H)-one	Fresh water	0.0039 mg/l	_
	Marine water	0.0039 mg/l	-
	Sewage Treatment Plant	0.23 mg/l	-
	Soil	0.047 mg/kg dwt	-
reaction mass of 5-chloro-2-methyl-2H- isothiazol-3-one and 2-methyl-2H-isothiazo 3-one (3:1)	Fresh water I-	0.049 μg/l	-
()	Marine water	0.0098 µg/l	_
			_
			_
	Sewage Treatment Plant Soil	0.045 μg/l 0.009 μg/l	-

8.2 Exposure controls

Appropriate engineering controls

Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Individual protection measures

General :	Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure.
Hygiene measures :	Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.
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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Hand protection :	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. The quality of the chemical-resistant protective gloves must be chosen as a function of the specific workplace concentrations and quantity of hazardous substances.
	Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the appropriate type. Below listed glove(s) should be regarded as generic advice:
	May be used: natural rubber (latex) Recommended: Silver Shield / Barrier / 4H gloves, nitrile rubber, neoprene rubber, butyl rubber, polyvinyl alcohol (PVA), polyvinyl chloride (PVC), Viton®
Body protection :	Personal protective equipment for the body should be selected based on the task being performed and the risks involved handling this product. Wear suitable protective clothing. Always wear protective clothing when spraying.



SECTION 8: Exposure controls/personal protection

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Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Wear appropriate respirator when ventilation is inadequate. Be sure to use approved/certified respirator or equivalent. It is not possible to specify precise filter type, since the actual work situation is unknown. Supplier of respirators should be contacted in order to find the appropriate filter.
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Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state :	Liquid.
Colour :	White
Odour :	Non-characteristic.
pH :	7 - 9
Melting point/freezing point :	0°C This is based on data for the following ingredient: water
Boiling point/boiling range :	Testing not relevant or not possible due to nature of the product.
Flash point :	Closed cup: 99°C (210.2°F)
Evaporation rate :	Testing not relevant or not possible due to nature of the product.
Flammability :	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Lower and upper explosive (flammable) limits :	0.6 - 12.6 vol %
Vapour pressure :	2.333 kPa This is based on data for the following ingredient: water
Vapour density :	Testing not relevant or not possible due to nature of the product.
Specific gravity :	1.2 g/cm ³
Partition coefficient (LogKow) :	Testing not relevant or not possible due to nature of the product.
Auto-ignition temperature :	Testing not relevant or not possible due to nature of the product.
Decomposition temperature :	Testing not relevant or not possible due to nature of the product.
Viscosity :	Testing not relevant or not possible due to nature of the product.
Explosive properties :	Slightly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.
Oxidising properties :	Testing not relevant or not possible due to nature of the product.
9.2 Other information	

Solvent(s) % by weight :Weighted average: 5 %Water % by weight :Weighted average: 45 %VOC content :\$0.3 g/lTOC Content :Weighted average: 32 g/lSolvent Gas :Weighted average: 0.017 m³/l

SECTION 10: Stability 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



SECTION 10: Stability and reactivity

No specific data.

10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidising materials. Slightly reactive or incompatible with the following materials: reducing materials.

10.6 Hazardous decomposition products

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

Decomposition products may include the following materials: carbon oxides metal oxide/oxides

SECTION 11: Toxicological information

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

Exposure to component solvent vapor concentrations may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.8 mg/l	4 hours
r .	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
trimethylolpropane	LD50 Oral	Rat	14100 mg/kg	-
ammonia	LD50 Oral	Rat	350 mg/kg	-
1,2-benzisothiazol-3(2H)-one	LD50 Oral	Rat - Male	670 mg/kg	-
2-methylisothiazol-3(2H)-one	LC50 Inhalation Dusts and mists	Rat	0.11 mg/l	4 hours
	LD50 Dermal	Rat	242 mg/kg	-
	LD50 Oral	Rat - Female	183 mg/kg	-
reaction mass of 5-chloro-2-methyl-	LD50 Oral	Rat	69 mg/kg	-
2H-isothiazol-3-one and 2-methyl-			0.0	
2H-isothiazol-3-one (3:1)				
zinc pyrithione	LC50 Inhalation Dusts and mists	Rat	1.03 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	269 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral mg/kg	Dermal mg/kg	Inhalation (gases) ppm	Inhalation (vapours) mg/l	Inhalation (dusts and mists) mg/l
trimethylolpropane	14100				
1,2-benzisothiazol-3(2H)-one	670				
2-methylisothiazol-3(2H)-one	183	242			0.11
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	69	50		0.5	
zinc pyrithione	221				0.14

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent
ammonia	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 milligrams
	Skin - Severe irritant	Rabbit	-	-
1,2-benzisothiazol-3(2H)-one	Eyes - Severe irritant	Rabbit	-	-
	Skin - Irritant	Rabbit	-	4 hours
	Skin - Mild irritant	Rabbit	-	-
2-methylisothiazol-3(2H)-one	Skin - Moderate irritant	Rabbit	-	-
reaction mass of 5-chloro-2-methyl- 2H-isothiazol-3-one and 2-methyl- 2H-isothiazol-3-one (3:1)	Eyes - Severe irritant	Rabbit	-	-
	Skin - Severe irritant	Human	-	0.01 Percent
	Skin - Severe irritant	Rabbit	-	-

Sensitiser



SECTION 11: Toxicological information

Product/ingredient name	Route of exposure	Species	Result
2-benzisothiazol-3(2H)-one	skin skin	Guinea pig Mouse	Sensitising Sensitising
2-methylisothiazol-3(2H)-one reaction mass of 5-chloro-2-methyl- 2H-isothiazol-3-one and 2-methyl- 2H-isothiazol-3-one (3:1)	skin skin	Guinea pig Guinea pig	Sensitising Sensitising

Mutagenic effects

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

Teratogenic effects

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ammonia	Category 3	Respiratory tract irritation	

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
zinc pyrithione	Category 1	-	-

Aspiration hazard

Product/ingredient name	Result
No known data avaliable in our database.	

Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential chronic health effects

No known significant effects or critical hazards.

11.2 Information on other hazards

Other information :

No additional known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Do not allow to enter drains or watercourses.

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l	Daphnia	48 hours
r F	Acute LC50 >100 mg/l	Fish	96 hours
ammonia	Acute LC50 0.8 mg/l	Fish	96 hours
	Chronic LC50 0.66 mg/l	Daphnia	48 hours
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.11 mg/l	Algae	72 hours
	Acute EC50 2.94 mg/l	Daphnia	48 hours
	Acute LC50 10 - 20 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 1.6 mg/l	Fish	96 hours
2-methylisothiazol-3(2H)-one	Acute EC50 0.158 mg/l	Algae	72 hours
	Acute EC50 0.063 mg/l	Algae	96 hours
	Acute EC50 0.87 mg/l	Daphnia	48 hours
	Acute LC50 0.056 ppm Marine water	Crustaceans - Acartia tonsa	48 hours
	Acute LC50 4.77 mg/l	Fish	96 hours
reaction mass of 5-chloro-2-methyl- 2H-isothiazol-3-one and 2-methyl- 2H-isothiazol-3-one (3:1)	Acute EC50 0.018 mg/l	Algae	72 hours
	Acute EC50 0.1 mg/l	Daphnia	48 hours
	Acute LC50 0.188 mg/l	Fish - Oncorhynchus mykiss	96 hours
zinc pyrithione	Acute EC50 0.0012 mg/l	Algae	120 hours



SECTION 12: Ecological information

Acute EC50 0.0082 mg/l	Daphnia	48 hours
Acute LC50 0.0026 mg/l	Fish	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum	
methylolpropane	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	100 % - Readily - 28 days	-	-	
1,2-benzisothiazol-3(2H)-one	-	90 % - Readily - 28 days	-	-	
2-methylisothiazol-3(2H)-one	-	98 % - Readily - 48 days	-	-	
reaction mass of 5-chloro-2-methyl- 2H-isothiazol-3-one and 2-methyl- 2H-isothiazol-3-one (3:1)	OECD 301B Ready Biodegradability - CO2 Evolution Test	62 % - Not readily - 28 days	-	-	
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability		
Minethylolpropane 1,2-benzisothiazol-3(2H)-one reaction mass of 5-chloro-2-methyl- 2H-isothiazol-3-one and 2-methyl- 2H-isothiazol-3-one (3:1) zinc pyrithione			Readily Readily Not readily Inherent		

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
tri methylolpropane	-0.47	<1	low
1,2-benzisothiazol-3(2H)-one	1.3	6.95	low
2-methylisothiazol-3(2H)-one	-0.32	3.16	low
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	<3	<100	low
zinc pyrithione	0.9	11	low

12.4 Mobility in soil

 Soil/water partition coefficient (Koc) :
 No known data avaliable in our database.

 Mobility :
 No known data avaliable in our database.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB	
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

13.1 Waste treatment methods

The generation of waste should be avoided or minimised wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

European waste catalogue no. (EWC) is given below.

European waste catalogue (EWC) : 08 01 11*

Packaging

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.



SECTION 14: Transport information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

	14.1 14.2 UN / ID no. Proper shipping name	14.3 Transport hazard class(es)	14.4 PG*		Additional information
ADR/RID Class	Not regulated.	-	-	No.	-
IMDG Class	Not regulated.	-	-	No.	-
IATA Class	Not regulated.	-	-	No.	-

PG* : Packing group

Env.* : Environmental hazards

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 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation - Substances of very high concern

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Other EU regulations

Seveso category

This product is not controlled under the Seveso III Directive.

15.2 Chemical safety assessment

\checkmark

SECTION 16: Other information

Abbreviations and acronyms :	EUH statement = Cl RRN = REACH Reg DNEL = Derived No	, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] P-specific Hazard statement istration Number
Full text of abbreviated H statements :	H301	Toxic if swallowed.
	H302	Harmful if swallowed.
	H310	Fatal in contact with skin.
	H311	Toxic in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H330	Fatal if inhaled.
	H335	May cause respiratory irritation.
	H351	Suspected of causing cancer.
	H360D	May damage the unborn child.
	H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
	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.
	EUH071	Corrosive to the respiratory tract.



SECTION 16: Other information

KIN SENSITISATION	Classification		Justification				
	Repr. 1B Repr. 2 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 1 STOT SE 3	REPRODUCTIVE TOXICITY - Category 1B REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category SKIN CORROSION/IRRITATION - Category SKIN CORROSION/IRRITATION - Category SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY - RE SPECIFIC TARGET ORGAN TOXICITY - SIN	1C 2 PEATED EXPOSURE - Category 1 IGLE EXPOSURE - Category 3				
Full text of classifications [CLP/GHS] :	Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Carc. 2 Eye Dam. 1	Acute Tox. 3ACUTE TOXICITY - Category 3Acute Tox. 4ACUTE TOXICITY - Category 4Aquatic Acute 1SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1Aquatic Chronic 1LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1Carc. 2CARCINOGENICITY - Category 2					

Notice to reader

Indicates information that has changed from previously issued version.

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical preformance or suitability for particular applications.

It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.

Safe Use of Mixture Information Hemucryl Enamel



This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

Indoor or outdoor spray painting by professionals or with brush, roller, putty knife, dipping etc. with good general room ventilation.

This safe use information is linked to	:	Professional spray painting and/or low-energy painting, local effect - Level II Skin Sens. 1, Eye Irrit. 2 , Asp. Tox. 1 or Solvent.
Sector(s) of use	:	Industrial uses - Professional uses
Product category(ies)	:	Coatings and paints, thinners, paint removers

Operational conditions

Place of use

: Indoor or outdoor use

Risk management measures (RMM)

Contributing	Process	Maximum duration	Ventilation		Respiratory	Eye	Hands
activity	category (ies)	duration	Type and air changes per hour				
Preparation of material for application	PROC05	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	PROC08a	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Professional application of coatings by brush or roller	PROC10	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Professional application of coatings by spraying	PROC11	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	None	None
Cleaning	PROC05	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Waste management	PROC08a	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.



The information in this Safe Use of Mixture Information (SUMI) sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the Safety Data Sheet (SDS) and the label of the product. No liability is accepted for any damage, no matter of what kind, which is a direct or indirect consequence of acts and/or decisions based on the contents of this document.