### **Hempel's Curing Agent 95570**



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

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

1.1 Product identifier

Product name: Hempel's Curing Agent 95570

Product identity: 9557000000
Product type: Curing agent

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

Field of application: used only as part of two- or multi component products

Ready-for-use mixture : (See base component)

Identified uses: Industrial applications, Professional 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 hempel@hempel.com

Date of issue : 26 October 2021

Date of previous issue : 2 July 2020.

**SECTION 2: Hazards identification** 

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

₹am. Liq. 3, H226 FLAMMABLE LIQUIDS

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION

Eye Dam. 1, H318 SERIOUS EYE DAMAGE/EYE IRRITATION

Skin Sens. 1, H317 SKIN SENSITISATION

Aquatic Acute 1, H400 SHORT-TERM (ACUTE) AQUATIC HAZARD Aquatic Chronic 3, H412 LONG-TERM (CHRONIC) AQUATIC HAZARD See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :









1.4 Emergency telephone number

01633 833600 (08.00 - 17.00)

measures).

Emergency telephone number (with hours of operation)

See Section 4 of the safety data sheet (first aid

Signal word : Danger

Hazard statements: F226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Avoid release to the environment.

Response: Fillect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Hazardous ingredients: Methylstyrenated phenol

butan-1-ol

2,4,6-tris(dimethylaminomethyl)phenol 3,6-diazaoctanethylenediamin bis[(dimethylamino)methyl]phenol

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### **SECTION 2: Hazards identification**

Supplemental label elements:

### Special packaging requirements

Containers to be fitted with child-

Not applicable.

resistant fastenings:

Tactile warning of danger: Not applicable.

### 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	%	Regulation (EC) No. 1272/2008 [	[CLP]	Туре
Methylstyrenated phenol	REACH #: 01-2119555274-38	≥10 - ≤25	Skin Irrit. 2, H315	-	[1]
	EC: 270-966-8		Skin Sens. 1B, H317		
	CAS: 68512-30-1		Aquatic Chronic 3, H412		
butan-1-ol	REACH #: 01-2119484630-38	≥10 - ≤18	Flam. Liq. 3, H226	-	[1]
	EC: 200-751-6		Acute Tox. 4, H302		
	CAS: 71-36-3		Skin Irrit. 2, H315		
	Index: 603-004-00-6		Eye Dam. 1, H318		
			STOT SE 3, H335		
			STOT SE 3, H336	С	
xylene	REACH #: 01-2119488216-32	≥10 - ≤25	Flam. Liq. 3, H226	C	[1] [2]
	EC: 215-535-7		Acute Tox. 4, H312		
	CAS: 1330-20-7		Acute Tox. 4, H332		
	Index: 601-022-00-9		Skin Irrit. 2, H315		
oleic acid, compound with (Z)-	REACH #: 01-2119974119-29	≥3 - ≤5	Skin Irrit. 2, H315	-	[1]
N-octadec-9-enylpropane-	EC: 251-846-4		Eye Irrit. 2, H319		
1,3-diamine (2:1)	CAS: 34140-91-5		STOT RE 2, H373 (oral)		
			Aquatic Acute 1, H400 (M=10)		
			Aquatic Chronic 2, H411		
ethylbenzene	REACH #: 01-2119489370-35	≥3 - ≤5	Flam. Liq. 2, H225	-	[1] [2]
	EC: 202-849-4		Acute Tox. 4, H332		
	CAS: 100-41-4		STOT RE 2, H373 (hearing organs)		
	Index: 601-023-00-4		Asp. Tox. 1, H304		
2,4,6-tris(dimethylaminomethyl)	REACH #: 01-2119560597-27	≥3 - <5	Acute Tox. 4, H302	-	[1]
phenol	EC: 202-013-9		Skin Corr. 1C, H314		
	CAS: 90-72-2		Eye Dam. 1, H318	_	
Solvent naphtha (petroleum),	REACH #: 01-2119455851-35	≤1.1	Flam. Liq. 3, H226	Р	[1] [2]
light arom.	EC: 265-199-0		STOT SE 3, H335		
	CAS: 64742-95-6		STOT SE 3, H336		
			Asp. Tox. 1, H304		
			Aquatic Chronic 2, H411		
3,6-diazaoctanethylenediamin	REACH #: 01-2119487919-13	<1	Acute Tox. 3, H311	-	[1]
	EC: 203-950-6		Skin Corr. 1B, H314		
	CAS: 112-24-3		Eye Dam. 1, H318		
	Index: 612-059-00-5		Skin Sens. 1, H317		
			Aquatic Chronic 3, H412		
bis[(dimethylamino)methyl]	EC: 275-162-0	<1	Skin Corr. 1C, H314	-	[1]
phenol	CAS: 71074-89-0		Eye Dam. 1, H318		
			Skin Sens. 1B, H317		
(Z)-N-9-octadecenylpropane-	EC: 230-528-9	≤0.3	Acute Tox. 4, H302	-	[1]
1,3-diamine	CAS: 7173-62-8		Skin Corr. 1B, H314		
			Eye Dam. 1, H318		
			STOT RE 1, H372		
			Aquatic Acute 1, H400 (M=10)		
			Aquatic Chronic 1, H410 (M=1)		
phenol	REACH #: 01-2119471329-32	≤0.22	Acute Tox. 3, H301	-	[1] [2]
	EC: 203-632-7		Acute Tox. 3, H311		
	CAS: 108-95-2		Acute Tox. 3, H331		
	Index: 604-001-00-2		Skin Corr. 1B, H314		
			Eye Dam. 1, H318		
			Muta. 2, H341		
			STOT RE 2, H373		
			See Section 16 for the full text of the H statement	s declared	
			above.		<u> </u>

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.

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### **Hempel's Curing Agent 95570**



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

#### Type

[1] Substance classified with a health or environmental hazard

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

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

### **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: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15

minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.

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. Give nothing by

mouth. 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. If it is suspected that

fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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 : Causes serious eye damage.

Inhalation: No known significant effects or critical hazards.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

stomach pains

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

Notes to physician: If gasses have been inhaled, from the decomposition of the product, symptoms may be delayed. Treat

symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested

or inhaled.

Specific treatments: No specific treatment.

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### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Extinguishing media: Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray.

Not to be used : waterjet.

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

Hazards from the substance or mixture :

Fammable 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

discharged to any waterway, sewer or drain.

Hazardous combustion products: Decomposition products may include the following materials: carbon oxides nitrogen 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

Avoid all direct contact with the spilled material. Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapour or mist. 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). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilt product.

### 6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

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

### 7.1 Precautions for safe handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.

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.

### 7.3 Specific end use(s)

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

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		
putan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 154 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.		
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.  STEL: 441 mg/m³ 15 minutes.  TWA: 50 ppm 8 hours.  TWA: 220 mg/m³ 8 hours.  STEL: 100 ppm 15 minutes.		
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.  STEL: 552 mg/m³ 15 minutes.  STEL: 125 ppm 15 minutes.  TWA: 441 mg/m³ 8 hours.  TWA: 100 ppm 8 hours.		
Solvent naphtha (petroleum), light arom.	EU OEL (Europe). TWA: 120 mg/m³ 8 hours. Form: Tentativ TWA: 25 ppm 8 hours. Form: Tentativ		
phenol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. TWA: 2 ppm 8 hours. STEL: 16 mg/m³ 15 minutes. STEL: 4 ppm 15 minutes. TWA: 7.8 mg/m³ 8 hours.		

### 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 and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **Derived effect levels**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Methylstyrenated phenol	DNEL	Long term Dermal	3.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.4 mg/m³	Workers	Systemic
xylene	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
oleic acid, compound with (Z)-N-octadec-	DNEL	Long term Inhalation	0.0984 mg/m <sup>3</sup>	Workers	Systemic
9-enylpropane-1,3-diamine (2:1)					•
	DNEL	Long term Dermal	14 μg/kg bw/day	Workers	Systemic
ethylbenzene	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
2,4,6-tris(dimethylaminomethyl)phenol	DNEL	Long term Inhalation	0.53 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	0.15 mg/kg bw/day	Workers	Systemic
Solvent naphtha (petroleum), light arom.	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
, , ,	DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic
3,6-diazaoctanethylenediamin	DNEL	Long term Dermal	0.57 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1 mg/m³	Workers	Systemic
phenol	DNEL	Long term Inhalation	8 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1.23 mg/kg bw/day	Workers	Systemic

### **Predicted effect concentrations**

Product/ingredient name	Compartment Detail	Value	Method Detail
Methylstyrenated phenol	Sewage Treatment Plant	2.4 mg/l	-
	Fresh water	14 µg/l	-
	Marine	1.4 µg/l	-
	Fresh water sediment	1064 mg/kg dwt	-
	Marine water sediment	106 mg/kg dwt	-
	Soil	212 mg/kg dwt	-
xylene	Fresh water	0.327 mg/l	-
•	Marine water	0.327 mg/l	-
	Fresh water sediment	12.46 mg/kg	-
	Marine water sediment	12.46 mg/kg	-

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### **Hempel's Curing Agent 95570**



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

	Soil Sewage Treatment Plant	2.31 mg/kg 6.68 mg/l	-
oleic acid, compound with (Z)-N-octadec- 9-enylpropane-1,3-diamine (2:1)	Fresh water	6.46 μg/l	-
	Marine water	0.646 µg/l	-
	Fresh water sediment	204 mg/kg dwt	_
	Marine water sediment	20.4 mg/kg dwt	_
	Soil	9.93 mg/kg dwt	_
ethylbenzene	Fresh water	0.1 mg/l	_
	Marine water	0.01 mg/l	_
	Sewage Treatment Plant	9.6 mg/l	_
	Fresh water sediment	13.7 mg/kg	_
	Soil	2.68 mg/kg	_
2,4,6-tris(dimethylaminomethyl)phenol	Fresh water	0.084 mg/l	_
	Marine water	0.0084 mg/l	-
	Sewage Treatment Plant	0.2 mg/l	-
3,6-diazaoctanethylenediamin	Fresh water	190 μg/l	-
•	Fresh water sediment	95.9 mg/kg	-
	Marine water	38 μg/l	-
	Marine water sediment	19.2 mg/kg	-
	Soil	19.1 mg/kg	-
	Sewage Treatment Plant	4.25 mg/l	-
phenol	Fresh water	0.0077 mg/l	-
·	Marine water	0.00077 mg/l	-
	Sewage Treatment Plant	2.1 mg/l	-
	Fresh water sediment	0.0915 mg/kg	-
	Marine water sediment	0.00915 mg/kg	-
	Soil	0.36 mg/kg	-

### 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face

respirator may be required instead.

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:

Recommended: Silver Shield / Barrier / 4H gloves, polyvinyl alcohol (PVA), Viton®

May be used: nitrile rubber, neoprene rubber, butyl rubber

Short term exposure: natural rubber (latex), polyvinyl chloride (PVC)

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.

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. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. Be sure to use an approved/certified respirator or equivalent.

**Environmental exposure controls** 

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### **Hempel's Curing Agent 95570**



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

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 : Transparent

Odour : Solvent-like

pH: Testing not relevant or not possible due to nature of the product.

Melting point/freezing point: Testing not relevant or not possible due to nature of the product.

Boiling point/boiling range: Testing not relevant or not possible due to nature of the product.

Flash point: Closed cup: 26°C (78.8°F)

Evaporation rate: Testing not relevant or not possible due to nature of the product.

Flammability: Highly flammable in the presence of the following materials or conditions: open flames, sparks and

static discharge and heat.

Lower and upper explosive

(flammable) limits:

0.8 - 11.3 vol %

Vapour pressure : Testing not relevant or not possible due to nature of the product.

Vapour density : Testing not relevant or not possible due to nature of the product.

Specific gravity: 0.949 g/cm<sup>3</sup>

Solubility(ies): Partially soluble in the following materials: cold water and hot water.

Partition coefficient (LogKow): Testing not relevant or not possible due to nature of the product.

Auto-ignition temperature: Lowest known value: 355°C (671°F) (butan-1-ol).

Decomposition temperature : Testing not relevant or not possible due to nature of the product.

Viscosity: Aspiration hazard (H304) Not classified. Testing not relevant due to nature of the product.

Explosive properties: Explosive in the presence of the following materials or conditions: open flames, sparks and static

discharge and heat.

Oxidising properties: Testing not relevant or not possible due to nature of the product.

9.2 Other information

Solvent(s) % by weight : Weighted average: 36 % Water % by weight : Weighted average: 0 %

VOC content: 344.8 g/l

TOC Content: Weighted average: 270 g/l
Solvent Gas: Weighted average: 0.094 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

Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

### 10.5 Incompatible materials

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### **SECTION 10: Stability and reactivity**

Highly reactive or incompatible with the following materials: oxidising materials. 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 nitrogen 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.

Direct contact with the eyes can cause irreversible damage, including blindness.

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Methylstyrenated phenol	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Vapour	Rat	6350 ppm	4 hours
	LD50 Dermal	Rabbit	>4200 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
•	LD50 Oral	Rat	3500 mg/kg	-
2,4,6-tris(dimethylaminomethyl) phenol	LD50 Dermal	Rabbit	1465 mg/kg	-
•	LD50 Oral	Rat	1200 mg/kg	-
	LD50 Oral	Rat	2169 mg/kg	-
Solvent naphtha (petroleum), light arom.	LC50 Inhalation Vapour	Rat	6193 mg/m³	4 hours
	LD50 Dermal	Rabbit	3160 mg/kg	-
	LD50 Oral	Rat	3492 mg/kg	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	550 mg/kg	-
,	LD50 Oral	Rat	1716 mg/kg	-
phenol	LD50 Dermal	Rabbit	630 mg/kg	-
•	LD50 Oral	Rat	317 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
⊭empel's Curing Agent 95570	4088.7	7078.3	35114.4	311.9	
butan-1-ol	790	3400		24	
xylene	3523	1100	5000		
ethylbenzene	3500			11	
2,4,6-tris(dimethylaminomethyl)phenol	1200				
Solvent naphtha (petroleum), light arom.	3492	3160			
3,6-diazaoctanethylenediamin		550			
(Z)-N-9-octadecenylpropane-1,3-diamine	500				
phenol	100	630		3	

Irritation/Corrosion

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## **Hempel's Curing Agent 95570**



### **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure
Methylstyrenated phenol	Eyes - Mild irritant	Rabbit	-	-
	Skin - Irritant	Rabbit	-	-
butan-1-ol	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams
xylene	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams
	Skin - Irritant	Rabbit	-	-
ethylbenzene	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams
	Respiratory - Mild irritant	Rabbit	-	-
	Eyes - Mild irritant	Rabbit	-	-
2,4,6-tris(dimethylaminomethyl)	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms
phenol				
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams
Solvent naphtha (petroleum), light	Eyes - Mild irritant	Rabbit	-	24 hours 100 microliters
arom.				
	Respiratory - Mild irritant	Rabbit	-	-
	Skin - Moderate irritant	Rabbit	-	-
3,6-diazaoctanethylenediamin	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams
	Skin - Severe irritant	Rabbit	-	24 hours 5 milligrams
phenol	Eyes - Mild irritant	Rabbit	-	0.5 minutes 5 milligrams
	Skin - Severe irritant	Pig	-	0.5 minutes 400 microliters

### Sensitiser

Product/ingredient name	Route of exposure	Species	Result
3,6-diazaoctanethylenediamin	skin	Guinea pig	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
butan-1-ol	Category 3 Category 3		Respiratory tract irritation Narcotic effects
Solvent naphtha (petroleum), light arom.	Category 3 Category 3		Respiratory tract irritation Narcotic effects

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
preic acid, compound with (Z)-N-octadec-9-enylpropane- 1,3-diamine (2:1)	Category 2	oral	-
ethylbenzene (Z)-N-9-octadecenylpropane-1,3-diamine	Category 2 Category 1	-	hearing organs -

### **Aspiration hazard**

Product/ingredient name	Result
ethylbenzene Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

### Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential chronic health effects

Sensitisation: Contains Methylstyrenated phenol, 3,6-diazaoctanethylenediamin. May produce an allergic reaction.

### 11.2 Information on other hazards

Endocrine disrupting properties: No known data avaliable in our database.

Other information : No additional known significant effects or critical hazards.

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## **Hempel's Curing Agent 95570**



### **SECTION 12: Ecological information**

### 12.1 Toxicity

not allow to enter drains or watercourses. Very toxic to aquatic life with long lasting effects.

Product/ingredient name	Result	Species	Exposure
Methylstyrenated phenol	Acute EC50 15 mg/l	Algae	72 hours
	Acute EC50 14 - 51 mg/l	Daphnia	48 hours
	Acute EC50 25.8 mg/l	Fish	96 hours
butan-1-ol	Acute EC50 1328 mg/l	Daphnia	96 hours
	Acute LC50 1.376 mg/l	Fish	96 hours
oleic acid, compound with (Z)-N- octadec-9-enylpropane-1,3-diamine (2:1)	Acute EC50 0.032 mg/l	Algae	72 hours
	Acute LC50 0.13 mg/l	Fish	96 hours
ethylbenzene	Chronic NOEC <1000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
2,4,6-tris(dimethylaminomethyl) phenol	Acute EC50 84 mg/l	Algae	72 hours
	Acute LC50 175 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light arom.	Acute EC50 2.6 mg/l	Algae - Pseudokirchneriella subcapitata (green algae)	96 hours
	Acute EC50 3.2 mg/l	Daphnia	48 hours
	Acute LC50 9.22 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
3,6-diazaoctanethylenediamin	Acute EC50 20 mg/l	Algae	72 hours
o,o a.a_aoota.rom.y.orroa.a.r	Acute EC50 31.1 mg/l	Daphnia	48 hours
	Acute LC50 330 mg/l	Fish	96 hours
(Z)-N-9-octadecenylpropane- 1,3-diamine	Acute EC50 0.05 mg/l	Algae	72 hours
phenol	Chronic NOEC 118 µg/l Fresh water	Fish - Oncorhynchus mykiss	90 days

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<mark>þ</mark> útan-1-ol	OECD 301D Ready	92 % - 20 days	-	-
xylene	Biodegradability - Closed Bottle Test OECD 301F Ready Biodegradability - Manometric	90 - 98 % - Readily - 28 days	-	-
	Respirometry Test	>60 % - Readily - 28 days	-	-
oleic acid, compound with (Z)-N- octadec-9-enylpropane-1,3-diamine (2:1)	OECD 301D Ready Biodegradability - Closed Bottle Test	66 % - Readily - 28 days	-	-
ethylbenzene	-	>70 % - Readily - 28 days	-	_
2,4,6-tris(dimethylaminomethyl) phenol	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	4 % - Not readily - 28 days	-	-
Solvent naphtha (petroleum), light arom.	OECD 301F Ready Biodegradability - Manometric Respirometry Test	78 % - Readily - 28 days	-	-
	-	>70 % - Readily - 28 days	-	-
(7) N.O. astadasanylaranana	- OFCD 201D Boody	>60 % - Readily - 28 days	-	-
(Z)-N-9-octadecenylpropane- 1,3-diamine	OECD 301D Ready Biodegradability - Closed Bottle Test	66 % - Readily - 28 days	<b>-</b>	
			i -	

Aquatic half-life	Photolysis	Biodegradability
-	-	Not readily
-	-	Readily
-	-	Readily
-	-	Readily
-	-	Readily
-	-	Not readily
		-
-	-	Readily
-	-	Readily
	- · · · · · · · · · · · · · · · · · · ·	

### 12.3 Bioaccumulative potential

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### **Hempel's Curing Agent 95570**



### **SECTION 12: Ecological information**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Methylstyrenated phenol	3.627	-	low
butan-1-ol	1	3.16	low
xylene	3.12	8.1 - 25.9	low
ethylbenzene	3.6	-	low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	low
Solvent naphtha (petroleum), light arom.	-	10 - 2500	high
3,6-diazaoctanethylenediamin	-1.661.4	-	low
(Z)-N-9-octadecenylpropane-1,3-diamine	0.03	0.5	low
phenol	1.47	647	high

### 12.4 Mobility in soil

Soil/water partition coefficient

No known data avaliable in our database.

(Koc):

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 Endocrine disrupting properties

No known data avaliable in our database.

### 12.7 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. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

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 UN / ID no.	14.2 Proper shipping name	14.3 Tran	sport hazard class(es)	14.4 PG*	14.5 Env*	Additional information
ADR/RID Class	UN1263	PAINT	3	<b>₹</b> 2	III	<b>Y</b> es.	he environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Tunnel code (D/E)
IMDG Class	UN1263	MINT. (oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1))	3	<b>₹</b> 2	III	Yes.	Me marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E,S-E
IATA Class	UN1263	PAINT	3		III	Yes.	Me environmentally hazardous substance mark may appear if required by other transportation regulations.

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### **Hempel's Curing Agent 95570**



### **SECTION 14: Transport information**

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 controlled under the Seveso III Directive.

### Seveso category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1

### 15.2 Chemical safety assessment

### **SECTION 16: Other information**

Abbreviations and acronyms: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

EUH statement = CLP-specific Hazard statement

RRN = REACH Registration Number DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

**H**225 Full text of abbreviated H statements: Highly flammable liquid and vapour.

H302

H226 Flammable liquid and vapour. H301 Toxic if swallowed.

Harmful if swallowed H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin. H312 Harmful 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 eve damage H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects.

H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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### **SECTION 16: Other information**

Full text of classifications [CLP/GHS] : Acute Tox. 3 Acute Tox. 4 ACUTE TOXICITY - Category 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1
Aquatic Chronic 1
Aquatic Chronic 2
Aquatic Chronic 3
Aquatic Acute 1
AQUATIC HAZARD - Category 1
AQUATIC HAZARD - Category 2
Aquatic Chronic 3
Aquatic Acute 1
Aquatic Acute 1
Aquatic Acute 1
Aquatic Acute 1
Aquatic HAZARD - Category 1
Aquatic Chronic 2
Aquatic Chronic 3
Aquatic Chronic 3
Aquatic Chronic 1
Aquatic Chronic 1
Aquatic Chronic 2
Aquatic Chronic 2
Aquatic Chronic 3
Aquatic Chro

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3

Muta. 2 GERM CELL MUTAGENICITY - Category 2
Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1 SKIN SENSITISATION - Category 1

Skin Sens. 1B SKIN SENSITISATION - Category 1B
STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY

STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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

Classification	Justification
MAMMABLE LIQUIDS	On basis of test data
SKIN CORROSION/IRRITATION	Calculation method
SERIOUS EYE DAMAGE/EYE IRRITATION	Calculation method
SKIN SENSITISATION	Calculation method
SHORT-TERM (ACUTE) AQUATIC HAZARD	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD	Calculation method

#### 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.

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# Safe Use of Mixture Information

### **Hempel's Curing Agent 95570**



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 III

Skin Corr. 1, Eye Dam. 1, Resp. Sens. 1 or EUH071

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	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	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		
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 chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		
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 chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		
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 chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	None	Wear suitable gloves tested to EN374.		
Cleaning	PROC05	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 chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		
Waste management	PROC08a	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		

See chapter 8 of this Safety Data Sheet for specifications.









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