Hempadur 15557 Base



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 : Hempadur 15557 Base
Product identity : 1555711320, 00137C07

Product type: epoxy primer (base for multi-component product)

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

Field of application : metal industry, ships and shipyards.

Ready-for-use mixture: 15553 = 15557 3 vol. / 98021 1 vol.15554 = 15557 3 vol. / 98024 1 vol. 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 : 27 August 2025

Date of previous issue : 20 February 2024.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Flam. 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 Chronic 2, H411 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

UK: 01633 833600 (08.00 - 17.00)

Monday-Sunday; 08:00-22:00)

Emergency telephone number (with hours of operation)

Ireland: 01 809 2166 (National Poisons Information Centre,

See Section 4 of the safety data sheet (first aid measures).

Signal word: Danger

Hazard statements: H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

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

H411 - 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: Collect 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: middlemolecular epoxyresin

Methylstyrenated phenol

butan-1-ol

Supplemental label elements: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Contains epoxy constituents. May produce an allergic reaction.

Special packaging requirements

Version: 0.06 Page: 1/14

Hempadur 15557 Base



SECTION 2: Hazards identification

Containers to be fitted with child-

Not applicable.

resistant fastenings:

Tactile warning of danger : Not applicable.

2.3 Other hazards

See Section 15 for details. EU - Substances of very high concern - 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
middlemolecular epoxyresin	CAS: 25068-38-6 Index: Polymer	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≤10	Carc. 2, H351 (inhalation)	[1] [*]
Methylstyrenated phenol	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≤10	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1] [3]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3. H336	[1] [2]
Solvent naphtha (petroleum), light arom.	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≤5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤5	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤3	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤0.3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[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.

Type

- Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit, see section 8.
- [3] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [*] 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 ≤ 10 µm not bound within a matrix.

Version: 0.06 Page: 2/14

Safety Data Sheet Hempadur 15557 Base



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/advice.

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: Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or

thinners. Remove contaminated clothing and shoes.

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: 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, CO₂, powders, water spray.

Not to be used: waterjet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or

mixture:

Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products: Decomposition products may include the following materials: carbon oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides

Version: 0.06 Page: 3/14

Safety Data Sheet Hempadur 15557 Base



SECTION 5: Firefighting measures

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

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

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. Contains epoxy constituents. Avoid all possible skin contact with epoxy and amine containing products, they may cause allergic reactions.

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)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Version: 0.06 Page: 4/14

Hempadur 15557 Base



SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
M ene	EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-,p- or mixed isomers] Absorbed through skin. STEL 15 minutes: 441 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 100 ppm.
butan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 154 mg/m³. STEL 15 minutes: 50 ppm.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020) STEL 15 minutes: 966 mg/m³. STEL 15 minutes: 200 ppm. TWA 8 hours: 724 mg/m³. TWA 8 hours: 150 ppm.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 552 mg/m³. STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m³.

Biological exposure indices

Product/ingredient name	Exposure limit values		
Mene	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.		

Recommended monitoring procedures

Réference 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	Type - Population - Exposure	Value	Effects
M ene	DNEL - Workers - Long term - Inhalation	77 mg/m³	Effects: Systemic
v ·	DNEL - Workers - Long term - Dermal	212 mg/kg bw/day	Effects: Systemic
Methylstyrenated phenol	DNEL - Workers - Long term - Dermal	3.5 mg/kg bw/day	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	1.4 mg/m³	Effects: Systemic
Solvent naphtha (petroleum), light arom.	DNEL - Workers - Long term - Dermal	12.5 mg/kg bw/day	Effects: Systemic
, , ,	DNEL - Workers - Long term - Inhalation	150 mg/m³	Effects: Systemic
trizinc bis(orthophosphate)	DNEL - Workers - Long term - Inhalation	5 mg/m³	Effects: Systemic
, , ,	DNEL - Workers - Long term - Dermal	83 mg/kg bw/day	Effects: Systemic
n-butyl acetate	DNEL - Workers - Long term - Inhalation	300 mg/m³	Effects: Systemic
•	DNEL - Workers - Long term - Dermal	11 mg/kg bw/day	Effects: Systemic
ethylbenzene	DNEL - Workers - Long term - Dermal	180 mg/kg bw/day	Effects: Systemic
•	DNEL - Workers - Long term - Inhalation	77 mg/m³	Effects: Systemic
zinc oxide	DNEL - Workers - Long term - Inhalation	5 mg/m³	Effects: Systemic
	DNEL - Workers - Long term - Dermal	83 mg/kg bw/day	Effects: Systemic

Predicted effect concentrations

Product/ingredient name	Compartment Detail	Value	
M lene	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	
	Soil	2.31 mg/kg	
	Sewage Treatment Plant	6.68 mg/l	
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	
trizinc bis(orthophosphate)	Fresh water	20.6 µg/l	
,	Marine water	6.1 µg/l	

Version: 0.06 Page: 5/14

Hempadur 15557 Base



SECTION 8: Exposure controls/personal protection

n-butyl acetate	Fresh water sediment Marine water sediment Soil Sewage Treatment Plant Fresh water Marine	117.8 mg/kg dwt 56.5 mg/kg dwt 35.6 mg/kg dwt 52 µg/l 0.18 mg/l 0.018 mg/l
	Fresh water sediment	0.981 mg/kg
	Marine water sediment Soil	0.0981 mg/kg 0.0903 mg/kg
	Sewage Treatment Plant	35.6 mg/l
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
zinc oxide	Fresh water	20.6 μg/l
	Marine	6.1 μg/l
	Sewage Treatment Plant	52 µg/l
	Marine water sediment	56.5 mg/kg dwt
	Soil	35.6 mg/kg dwt

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 chemically 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.

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 (>0.3 mm)

Short term exposure: neoprene rubber (>0.1 mm), butyl rubber (>0.5 mm), natural rubber (latex) (>0.4

mm), polyvinyl chloride (PVC), nitrile rubber (>0.1 mm), butyl rubber (>0.3 mm)

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.

Chemical-resistant apron.

Respiratory protection : When the product is applied by spraying and for continuous or prolonged work always wear an air-fed

respirator e.g. hood with supply of fresh or compressed air or a full face, powered air purifying filter. 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. (EN140) Be sure to use an approved/certified respirator or equivalent.

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.

Version: 0.06 Page: 6/14

Hempadur 15557 Base



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid. Colour: Grey. 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: 30°C (86°F)

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

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

static discharge and heat.

Flammable in the presence of the following materials or conditions: oxidising materials.

Vapour pressure:

	Vapour Pressure at 20°C			Vap	our pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Mene	6.7	0.89				

Not available. Vapour density: Specific gravity: 1.69 g/cm³

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

Auto-ignition temperature :

Ingredient name °C °F Method >385 DIN 51794 Methylstyrenated phenol >725

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

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

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

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: 20 % Water % by weight : Weighted average: 0 %

VOC content: 340.3 g/l VOC content, Ready-for-use 386.3 g/l

mixture:

Weighted average: 279 g/l

TOC Content: Weighted average: 0.084 m³/l Solvent Gas:

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

Version: 0.06 Page: 7/14

Safety Data Sheet Hempadur 15557 Base



SECTION 10: Stability and reactivity

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

Reactive or incompatible with the following materials: reducing materials, organic materials, acids, alkalis and moisture.

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 sulfur oxides phosphorus oxides halogenated compounds 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.

Epoxy and amine containing products can cause skin disorders such as allergic eczema. The allergy may arise after only a short exposure period.

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

Acute toxicity

Product/ingredient name	Result	Dose / Exposure	Effects
mddlemolecular epoxyresin	Rat - Dermal - LD50	>2000 mg/kg	
xylene	Rabbit - Dermal - LD50	>4200 mg/kg	
	Rat - Oral - LD50	3523 mg/kg	
	Rat - Inhalation - LC50 Vapour	6350 ppm [4 hours]	
	Rat - Inhalation - LC50 Gas.	5000 ppm [4 hours]	
titanium dioxide	Rat - Oral - LD50	>5000 mg/kg	
	Rabbit - Dermal - LD50	>5000 mg/kg	
	Rat - Inhalation - LC50 Dusts and mists	>6.8 mg/l [4 hours]	
Methylstyrenated phenol	Rat - Oral - LD50	>2000 mg/kg	
	Rat - Dermal - LD50	>2000 mg/kg	
	Rat - Inhalation - LC50 Dusts and mists	>5 mg/l [4 hours]	
butan-1-ol	Rabbit - Dermal - LD50	3400 mg/kg	Toxic effects: Eye - Corneal damage Cardiac - Pulse rate Lung, Thorax, or Respiration - Dyspnea
	Rat - Oral - LD50	790 mg/kg	Toxic effects: Liver - Fatty liver degeneration Kidney, Ureter, and Bladder - Other changes Blood - Other changes
	Rat - Inhalation - LC50 Vapour	24000 mg/m³ [4 hours]	Other changes blood - Other changes
Solvent naphtha (petroleum), light arom.	Rat - Oral - LD50	3492 mg/kg	
	Rabbit - Dermal - LD50	3160 mg/kg	
	Rat - Inhalation - LC50 Vapour	6193 mg/m³ [4 hours]	
trizinc bis(orthophosphate)	Rat - Oral - LD50	>5000 mg/kg	
n-butyl acetate	Rat - Oral - LD50	10768 mg/kg	
	Rabbit - Dermal - LD50	>14112 mg/kg	
	Rat - Inhalation - LC50 Vapour	>21 mg/l [4 hours]	
ethylbenzene	Rat - Oral - LD50	3500 mg/kg	Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other
			changes
	Rabbit - Dermal - LD50	>5000 mg/kg	
zinc oxide	Rat - Oral - LD50	>5000 mg/kg	
	Rat - Dermal - LD50	>2000 mg/kg	
	Rat - Inhalation - LC50 Dusts and mists	>5.7 mg/l [4 hours]	

Acute toxicity estimates

Version: 0.06 Page: 8/14

Hempadur 15557 Base



SECTION 11: Toxicological information

Product/ingredient name	Oral mg/kg	Dermal mg/kg	Inhalation (gases) ppm	Inhalation (vapours) mg/l	Inhalation (dusts and mists) mg/l
<mark>⊮</mark> empadur 15557 Base	22145.2	14965.8	55099.3	708.8	
xylene	3523	1100	5000		
butan-1-ol	790	3400		24	
Solvent naphtha (petroleum), light arom.	3492	3160			
n-butyl acetate	10768				
ethylbenzene	3500		4500	11	

Irritation/Corrosion

Product/ingredient name	Result	Species	Exposure
M ene	Rabbit - Eyes - Severe irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 5 milligrams
	Rabbit - Skin - Moderate irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 500 milligrams
	Rabbit - Skin - Irritant		99
titanium dioxide	Human - Skin - Mild irritant	Duration of treatment/ exposure: 72 hours	Amount/concentration applied: 300 Micrograms Intermittent
Methylstyrenated phenol	Rabbit - Eyes - Mild irritant Rabbit - Skin - Irritant	,	
butan-1-ol	Rabbit - Eyes - Severe irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 2 milligrams
	Rabbit - Skin - Moderate irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 20 milligrams
Solvent naphtha (petroleum), light arom.	Rabbit - Eyes - Mild irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 100 microliters
	Rabbit - Respiratory - Mild irritant Rabbit - Skin - Moderate irritant	'	
n-butyl acetate	Rabbit - Skin - Moderate irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 500 mg
	Rabbit - Eyes - Mild irritant Rabbit - Respiratory - Mild irritant		
ethylbenzene	Rabbit - Skin - Mild irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 15 milligrams
	Rabbit - Respiratory - Mild irritant Rabbit - Eyes - Mild irritant		9
zinc oxide	Rabbit - Eyes - Mild irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 500 milligrams
	Rabbit - Skin - Mild irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 500 milligrams

Sensitiser

Product/ingredient name	Species - Route of exposure	Result
mddlemolecular epoxyresin	Guinea pig - skin	Result: Sensitising

Mutagenic effects

No known data avaliable in our database.

Carcinogenicity

No known data avaliable in our database.

Reproductive toxicity

No known data avaliable in our database.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
outan-1-ol	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects
Solvent naphtha (petroleum), light arom.	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects
n-butyl acetate	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Version: 0.06 Page: 9/14

Hempadur 15557 Base



SECTION 11: Toxicological information

Product/ingredient name	Category Route of exposure		Target organs	
et hylbenzene	Category 2	-	hearing organs	

Aspiration hazard

Product/ingredient name	Result
Solvent naphtha (petroleum), light arom. ethylbenzene	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

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. Toxic to aquatic life with long lasting effects.

Product/ingredient name	Result	Species	Exposure
mddlemolecular epoxyresin	Acute - LC50	Fish	>100 mg/l [96 hours]
	Acute - EC50	Daphnia	>100 mg/l [48 hours]
titanium dioxide	Acute - LC50	Fish	>100 mg/l [96 hours]
	Acute - LC50	Daphnia	>100 mg/l [48 hours]
Methylstyrenated phenol	Acute - EC50	Daphnia	14 - 51 mg/l [48 hours]
	Acute - EC50	Algae	15 mg/l [72 hours]
	Acute - EC50	Fish	25.8 mg/l [96 hours]
butan-1-ol	Acute - LC50	Fish	1.376 mg/l [96 hours]
	Acute - EC50	Daphnia	1328 mg/l [96 hours]
Solvent naphtha (petroleum), light arom.	Acute - LC50	Fish - Oncorhynchus mykiss (rainbow trout)	9.22 mg/l [96 hours]
	Acute - EC50	Algae - Pseudokirchneriella subcapitata (green algae)	2.6 mg/l [96 hours]
	Acute - EC50	Daphnia	3.2 mg/l [48 hours]
trizinc bis(orthophosphate)	Acute - EC50	Daphnia	2.44 mg/l [48 hours]
	Acute - EC50	Algae	0.8 mg/l [72 hours]
n-butyl acetate	Acute - EC50	Daphnia	44 mg/l [48 hours]
	Acute - EC50	Algae	648 mg/l [72 hours]
ethylbenzene	Chronic - NOEC - Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	<1000 µg/l [96 hours]
zinc oxide	Acute - LC50 - Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	24600 μg/l [48 hours]
	Acute - EC50	Algae - Green algae - <i>Pseudokirchneriella</i> subcapitata - Exponential growth phase	0.17 mg/l [72 hours]
	Acute - EC50	Daphnia - Green algae - Pseudokirchneriella subcapitata - Exponential growth phase	1 mg/l [48 hours]
	EC50	Daphnia	0.413 mg/l [48 hours]
	LC50	Fish	0.1169 mg/l [96 hours]
	Chronic - EC50	Algae	0.136 mg/l [72 hours]

12.2 Persistence and degradability

Product/ingredient name	Test	Result
xy lene	OECD Ready Biodegradability - Manometric Respirometry Test	>60% [28 days] - Readily 90 - 98% [28 days] - Readily
butan-1-ol	OECD Ready Biodegradability - Closed Bottle Test	92% [20 days]
Solvent naphtha (petroleum), light arom.	, , ,	>70% [28 days] - Readily
		>60% [28 days] - Readily
	OECD Ready Biodegradability - Manometric Respirometry Test	78% [28 days] - Readily
n-butyl acetate	OECD Ready Biodegradability - Closed Bottle Test	90% [28 days] - Readily 80% [5 days] - Readily
ethylbenzene		>70% [28 days] - Readily

Version: 0.06 Page: 10/14

Hempadur 15557 Base



SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methylstyrenated phenol butan-1-ol Solvent naphtha (petroleum), light arom.			Readily Not readily Readily Readily
n-butyl acetate ethylbenzene zinc oxide			Readily Readily Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
mddlemolecular epoxyresin	2.64 - 3.78	31	Low
xylene	3.12	8.1 - 25.9	Low
Methylstyrenated phenol	3.627	-	Low
butan-1-ol	1	3.16	Low
Solvent naphtha (petroleum), light arom.	-	10 - 2500	High
trizinc bis(orthophosphate)	-	60960	High
n-butyl acetate	2.3	3.1	Low
ethylbenzene	3.6	-	Low
zinc oxide	2.2	60960	High

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос	
butan-1-ol n-butyl acetate ethylbenzene	1.59 0.51 1.52 2.23	39 3.22078 33.2139 170.406	

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	М	Т	vPvM	νP	νM
mddlemolecular epoxyresin	No	No	No	No	No	No	No
xylene	No	No	Yes	No	No	No	Yes
titanium dioxide	No	No	No	No	No	No	No
Methylstyrenated phenol	No	No	No	No	No	Yes	No
butan-1-ol	No	No	Yes	No	No	No	Yes
Solvent naphtha (petroleum), light arom.	No	No	No	No	No	No	No
trizinc bis(orthophosphate)	No	No	No	No	No	No	No
n-butyl acetate	No	No	Yes	No	No	No	Yes
ethylbenzene	No	No	Yes	Yes	No	No	No
zinc oxide	No	No	No	No	No	No	No

Mobility:

The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

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. 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.

Version: 0.06 Page: 11/14

Hempadur 15557 Base



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 Transport hazard class(es)	14.4 PG*	14.5 Env*	Additional information
ADR/RID Class	UN1263	PAINT	3 42	III	Yes.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Tunnel code (D/E)
IMDG Class	UN1263	PAINT. (Solvent naphtha (petroleum), light arom.)	3 42	III	Yes.	The 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.	The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Methylstyrenated phenol	vPvB	Candidate	D(2023)8585-DC	1/23/2024

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

55c: Flammable liquids 2 and 3 not falling under P5a or P5b

E2: Hazardous to the aquatic environment - Chronic 2

15.2 Chemical safety assessment

-

Version: 0.06 Page: 12/14

Hempadur 15557 Base



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

Highly flammable liquid and vapour. Full text of abbreviated H statements: H225 H226

Flammable liquid and vapour. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways

H312 Harmful in contact with skin. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

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.

FUH066 Repeated exposure may cause skin dryness or cracking.

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

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Acute 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Asp. Tox. 1 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 Carc. 2

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

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

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1B Skin Sens. 1 Skin Sens. 1B

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

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

Version: 0.06 Page: 13/14

Safe Use of Mixture Information Hempadur 15557 Base



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 Type and air changes per hour		Respiratory	Eye	Hands
activity	category (ies)	duration					
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 chemically 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 chemically 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 chemically 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 chemically 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 chemically 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 chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

See section 8 of this Safety Data Sheet for specifications.









Page: 14/14