Hempadur 15579 Base



1.4 Emergency telephone number

Switzerland: Swiss Toxicological Information Centre

+41 44 251 51 51 (in Switzerland dial 145) (24 hrs)

(0 41 01) 70 70 (08.00 - 17.00)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 - Austria / Germany

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

1.1 Product identifier

Product name: Hempadur 15579 Base 1557912430, 00137C22 Product identity:

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: buildings and metal industry. ships and shipyards.

15570 = 15579 3 vol. / 95570 1 vol. Ready-for-use mixture: 15571 = 15579 4 vol. / 95040 1 vol.

Identified uses: Consumer applications, Industrial applications, Professional applications, Used by spraying.

1.3 Details of the supplier of the safety data sheet

Company details: Hempel (Germany) GmbH

Haderslebener Straße 9 Austria: Vergiftungsinformationszentrale 25421 Pinneberg +43 1 406 43 43 (24 hrs)

Tel. (0 41 01) 70 70 Fax. (0 41 01) 70 71 31

hempel@hempel.com

6 March 2025 Date of issue: Date of previous issue: 20 November 2023.

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]

FLAMMABLE LIQUIDS Flam. Liq. 3, H226

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION

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

Skin Sens. 1, H317 SKIN SENSITIZATION

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

2.2 Label elements

Hazard pictograms:







Signal word: Danger

Hazard statements: H226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

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

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. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Avoid breathing vapor. Wash thoroughly after

handling

FON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Response:

Take off contaminated clothing and wash it before reuse. 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.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international

regulations.

Hazardous ingredients: middle molecular epoxy resin MMW 700-1200

butan-1-ol

1,3-bis(12-hydroxyocta-decanamide-N-methyle)benzene

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SECTION 2: Hazards identification

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

Containers to be fitted with child-

resistant fastenings:

Not applicable.

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) N	lo. 1272/2008 [CLP]	Туре
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤20	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 5000 ppm	[1] [2]
middle molecular epoxy resin MMW 700-1200	CAS: 25068-38-6 Index: Polymer	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≥3 - ≤5	Carc. 2, H351 (inhalation)	-	[1] [*]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥3 - ≤4.2	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	ATE [Inhalation (gases)] = 4500 ppm	[1] [2]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≥3 - ≤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	ATE [Oral] = 790 mg/kg	[1]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥1 - ≤3	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
1,3-bis(12-hydroxyocta- decanamide-N-methyle) benzene	REACH #: 01-0000016979-49 EC: 423-300-7	<1	Skin Sens. 1B, H317 Aquatic Chronic 4, H413 See Section 16 for the full text above.	of the H statements declared	[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

[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 ≤ 10 µm 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: 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.

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SECTION 4: First aid measures

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 recognized skin cleanser. Do NOT use solvents or

thinners. Remove contaminated clothing and shoes.

If swallowed, seek medical advice immediately and show this container or label. Keep person warm Ingestion:

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.

No known significant effects or critical hazards. Ingestion:

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

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 vapor. 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.

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

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.

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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 vapor 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 spilled 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).

6.3 Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach 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 spilled 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

Product/ingredient name	Exposure limit values
w/lene	TRGS 900 OEL (Germany, 6/2024) [Xylol] Absorbed through skin.
	TWA 8 hours: 220 mg/m³.
	PEAK 15 minutes: 440 mg/m³.
	TWA 8 hours: 50 ppm.
	PEAK 15 minutes: 100 ppm.
	DFG MAC-values list (Germany, 7/2023) [Xylene] Develop D. Absorbed through
	skin.
	TWA 8 hours: 50 ppm.
	PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].
	TWA 8 hours: 220 mg/m³.
	PEAK 15 minutes: 440 mg/m³ 4 times per shift [Interval: 1 hour].
	EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin.
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 221 mg/m³.
	STEL 15 minutes: 100 ppm.
	STEL 15 minutes: 442 mg/m³.

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SECTION 8: Exposure controls/personal protection

ethylbenzene TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 88 mg/m3 PEAK 15 minutes: 176 mg/m³. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm. DFG MAC-values list (Germany, 7/2023) Carc 4, Develop C. Absorbed through skin. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 176 mg/m³ 4 times per shift [Interval: 1 hour]. TWA 8 hours: 88 mg/m³. TWA 8 hours: 20 ppm. EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m3. butan-1-ol TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 310 mg/m³. PEAK 15 minutes: 310 mg/m3. TWA 8 hours: 100 ppm. PEAK 15 minutes: 100 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 100 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 310 mg/m³. PEAK 15 minutes: 310 mg/m³ 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 6/2024) n-butyl acetate TWA 8 hours: 300 mg/m3. TWA 8 hours: 62 ppm. PEAK 15 minutes: 600 mg/m³. PEAK 15 minutes: 124 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 480 mg/m³ PEAK 15 minutes: 960 mg/m³ 4 times per shift [Interval: 1 hour]. **EU OEL (Europe, 1/2022)** STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m3. TWA 8 hours: 241 mg/m3. TWA 8 hours: 50 ppm. xylene Regulation on Limit Values - MAC (Austria, 4/2021) [Xylol (alle Isomeren, rein)] PEAK 15 minutes: 442 mg/m³ 4 times per shift. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift. TWA 8 hours: 221 mg/m³ EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. ethylbenzene Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 440 mg/m³. CEIL 5 minutes: 200 ppm 8 times per shift. CEIL 5 minutes: 880 mg/m³ 8 times per shift. EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m3. butan-1-ol Regulation on Limit Values - MAC (Austria, 4/2021) [Butanol (alle Isomeren außer 2-Methyl-2-propanol)] PEAK 15 minutes: 200 ppm 4 times per shift. TWA 8 hours: 150 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 600 mg/m3 4 times per shift. n-butyl acetate Regulation on Limit Values - MAC (Austria, 4/2021) [Butylacetat alle Isomeren außer tert-Butylacet] CEIL: 480 mg/m³. CEIL: 100 ppm.

TWA 8 hours: 241 mg/m³.

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SECTION 8: Exposure controls/personal protection

TWA 8 hours: 50 ppm. **EU OEL (Europe, 1/2022)**STEL 15 minutes: 150 ppm.

STEL 15 minutes: 723 mg/m³.

TWA 8 hours: 241 mg/m³.

TWA 8 hours: 50 ppm.

Biological exposure indices

Product/ingredient name	Exposure limit values
<mark>⊮</mark> lene	DFG BEI-values list (Germany, 7/2023) [Xylene (all isomers)] Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2024) [Xylene (all isomers)] BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.
ethylbenzene	DFG BEI-values list (Germany, 7/2023) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2024) BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.
butan-1-ol	DFG BEI-values list (Germany, 7/2023) BEI: 2 mg/g creatinine, 1-butanol [in urine]. Sampling time: at the beginning of the next shift. BEI: 10 mg/g creatinine, 1-butanol [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2024) BEI: 2 mg/g creatinine, butan-1-ol (butanol-1) (after hydrolysis) [in urine]. Sampling time: at the beginning of the next shift. BEI: 10 mg/g creatinine, butan-1-ol (butanol-1) (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift.
xy lene	VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.

Recommended monitoring procedures

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

Type - Population - Exposure	Value	Effects
DNEL - Workers - Long term - Inhalation	77 mg/m³	Effects: Systemic
DNEL - Workers - Long term - Dermal	212 mg/kg bw/day	Effects: Systemic
DNEL - Workers - Long term - Dermal	180 mg/kg bw/day	Effects: Systemic
DNEL - Workers - Long term - Inhalation	77 mg/m³	Effects: Systemic
DNEL - Workers - Long term - Inhalation	300 mg/m³	Effects: Systemic Effects: Systemic
	DNEL - Workers - Long term - Inhalation DNEL - Workers - Long term - Dermal DNEL - Workers - Long term - Dermal DNEL - Workers - Long term - Inhalation	DNEL - Workers - Long term - Inhalation DNEL - Workers - Long term - Dermal DNEL - Workers - Long term - Dermal DNEL - Workers - Long term - Dermal DNEL - Workers - Long term - Inhalation DNEL - Workers - Long term - Inhalation DNEL - Workers - Long term - Inhalation 300 mg/m³

Predicted effect concentrations

Product/ingredient name	Compartment Detail	Value
W 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
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
n-butyl acetate	Fresh water	0.18 mg/l
	Marine	0.018 mg/l
	Fresh water sediment	0.981 mg/kg

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SECTION 8: Exposure controls/personal protection

Marine water sediment 0.0981 mg/kg
Soil 0.0903 mg/kg
Sewage Treatment Plant 35.6 mg/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.

Where personal protection equipment is required this shall be chosen in accordance with German BGR

regulations of the "Berufsgenossenschaften".

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 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: neoprene rubber (>0.1 mm), butyl rubber (>0.5 mm), nitrile rubber (>0.3 mm)

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

Short term exposure: polyvinyl chloride (PVC), butyl rubber (>0.3 mm), nitrile rubber (>0.1 mm), natural

rubber (latex) (>0.4 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : Liquid.

Color : Gray

Odor : 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: 25°C (77°F)

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

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SECTION 9: Physical and chemical properties

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: oxidizing materials.

Vapor pressure : Vapor Pressure at 20°C Vapor pressur

	Vapor Pressure at 20°C			Val	oor pressur	e at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Mene	6.7	0.89				

Vapor density : Not available.

Specific gravity : 1.53 g/cm³

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

Auto-ignition temperature : Ingredient name oc.

Ingredient name	°C	°F	Method
w/lene	432	809.6	

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.

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

9.2 Other information

Solvent(s) % by weight : Weighted average: 29 % Water % by weight : Weighted average: 0 %

VOC content: 438 g/l
VOC content, Ready-for-use 400.6 g/l

mixture:

TOC Content: Weighted average: 376 g/l
Solvent Gas: Weighted average: 0.104 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 pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

Highly reactive or incompatible with the following materials: oxidizing 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 halogenated compounds metal oxide/oxides

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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
w/lene	Rabbit - Dermal - LD50 Rat - Oral - LD50 Rat - Inhalation - LC50 Vapor Rat - Inhalation - LC50 Gas.	>4200 mg/kg 3523 mg/kg 6350 ppm [4 hours] 5000 ppm [4 hours]	
middle molecular epoxy resin MMW 700-1200	Rat - Dermal - LD50	>2000 ppin [4 hours]	
titanium dioxide	Rat - Oral - LD50 Rabbit - Dermal - LD50 Rat - Inhalation - LC50 Dusts and mists	>5000 mg/kg >5000 mg/kg >6.8 mg/l [4 hours]	
ethylbenzene	Rat - Oral - LD50	3500 mg/kg	Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes
butan-1-ol	Rabbit - Dermal - LD50 Rabbit - Dermal - LD50	>5000 mg/kg 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
n-butyl acetate	Rat - Inhalation - LC50 Vapor Rat - Oral - LD50 Rabbit - Dermal - LD50 Rat - Inhalation - LC50 Vapor	24000 mg/m³ [4 hours] 10768 mg/kg >14112 mg/kg >21 mg/l [4 hours]	
1,3-bis(12-hydroxyocta-decanamide- N-methyle)benzene	Rat - Oral - LD50	>2000 mg/kg	
	Rat - Dermal - LD50 Rat - Inhalation - LC50 Dusts and mists	>2000 mg/kg >5 mg/m³ [4 hours]	

Acute toxicity estimates

Product/ingredient name	Oral mg/kg	Dermal mg/kg	Inhalation (gases) ppm	Inhalation (vapors) mg/l	Inhalation (dusts and mists) mg/l
Hempadur 15579 Base xylene ethylbenzene butan-1-ol n-butyl acetate	22693.3 3523 3500 790 10768	5683.5 1100 3400	20949.9 5000 4500	270.9 11 24	

Irritation/Corrosion

Product/ingredient name	Result	Species	Exposure
M lene	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	•	
titanium dioxide	Human - Skin - Mild irritant	Duration of treatment/	Amount/concentration applied: 300
		exposure: 72 hours	Micrograms Intermittent
ethylbenzene	Rabbit - Skin - Mild irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 15 milligrams
	Rabbit - Respiratory - Mild irritant	•	
	Rabbit - Eyes - Mild 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/	Amount/concentration applied: 20

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SECTION 11: Toxicological information

n-butyl acetate

Rabbit - Skin - Moderate irritant
Rabbit - Eyes - Mild irritant
Rabbit - Respiratory - Mild irritant

Sensitizer

Product/ingredient name	Species - Route of exposure	Result
mddle molecular epoxy resin MMW 700-1200	Guinea pig - skin	Result: Sensitizing

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
butan-1-ol	Category 3 Category 3		Respiratory tract irritation Narcotic effects
n-butyl acetate	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Product/ingredient name	Result			
ethylbenzene	ASPIRATION HAZARD - Category 1			

Information on the 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

Endocrine disrupting properties: Me product does not meet the criteria to be considered as having endocrine disrupting properties

according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No

1272/2008.

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	
middle molecular epoxy resin MMW 700-1200	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]	
ethylbenzene	Chronic - NOEC - Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	<1000 μg/l [96 hours]	
butan-1-ol	Acute - LC50	Fish	1.376 mg/l [96 hours]	
	Acute - EC50	Daphnia	1328 mg/l [96 hours]	
n-butyl acetate	Acute - EC50	Daphnia	44 mg/l [48 hours]	
•	Acute - EC50	Algae	648 mg/l [72 hours]	
1,3-bis(12-hydroxyocta-decanamide- N-methyle)benzene	Acute - LC50	Fish	>100 mg/l [96 hours]	

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SECTION 12: Ecological information

Acute - LC50 Algae	>100 mg/l [72 hours]
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12.2 Persistence and degradability

Product/ingredient name	Test	Result			
volene	OECD Ready Biodegradability - Manometric	>60% [28 days] - Readily 90 - 98% [28 days] - Readily			
ethylbenzene butan-1-ol n-butyl acetate	Respirometry Test OECD Ready Biodegradability - Closed Bottle Test	>70% [28 days] - Readily 92% [20 days] 90% [28 days] - Readily			
1,3-bis(12-hydroxyocta-decanamide- N-methyle)benzene	OECD Ready Biodegradability - Closed Bottle Test	80% [5 days] - Readily 5% [28 days]			

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethylbenzene butan-1-ol n-butyl acetate 1,3-bis(12-hydroxyocta-decanamide-N-methyle)benzene			Readily Readily Readily Readily Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
xylene	3.12	8.1 - 25.9	Low
middle molecular epoxy resin MMW 700-1200	2.64 - 3.78	31	Low
ethylbenzene	3.6	-	Low
butan-1-ol	1	3.16	Low
n-butyl acetate	2.3	3.1	Low

12.4 Mobility in soil

Soil/Water partition coefficient

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

Results of PMT and vPvM assessment

Product/ingredient name		Р	M	Т	vPvM	νP	νM
w/lene	No	No	Yes	No	No	No	Yes
middle molecular epoxy resin MMW 700-1200	No	No	No	No	No	No	No
titanium dioxide	No	No	No	No	No	No	No
ethylbenzene	No	No	Yes	Yes	No	No	No
butan-1-ol	No	No	Yes	No	No	No	Yes
n-butyl acetate	No	No	Yes	No	No	No	Yes
1,3-bis(12-hydroxyocta-decanamide-N-methyle)benzene	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

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name		P	В	Т	vPvB	νP	vB
wene e	No	No	No	No	No	No	No
middle molecular epoxy resin MMW 700-1200	No	No	No	No	No	No	No
titanium dioxide	No	No	No	No	No	No	No
ethylbenzene	No	No	No	Yes	No	No	No
butan-1-ol	No	No	No	No	No	No	No
n-butyl acetate	No	No	No	No	No	No	No
1,3-bis(12-hydroxyocta-decanamide-N-methyle)benzene	No	No	No	No	No	No	No

Regulation (EC) No. 1272/2008 [CLP]

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SECTION 12: Ecological information

Product/ingredient name		Р	В	Т	vPvB	νP	vB
⋈ lene	No	No	No	No	No	No	No
middle molecular epoxy resin MMW 700-1200	No	No	No	No	No	No	No
titanium dioxide	No	No	No	No	No	No	No
ethylbenzene	No	No	No	Yes	No	No	No
butan-1-ol	No	No	No	No	No	No	No
n-butyl acetate	No	No	No	No	No	No	No
1,3-bis(12-hydroxyocta-decanamide-N-methyle)benzene	No	No	No	No	No	No	No

Conclusion/Summary:

The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Me product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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 minimized 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 minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Empty containers or liners may retain some product residues.

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 Trans	port hazard class(es)	14.4 PG*		Additional information
ADR/RID Class	UN1263	PAINT	3		III	No.	Tunnel code (D/E)
IMDG Class	UN1263	PAINT	3		III	No.	Emergency schedules F-E, S-E
IATA Class	UN1263	PAINT	3		III	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.

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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 authorization - 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

5c: Flammable liquids 2 and 3 not falling under P5a or P5b

National regulations

Austria

VbF class: A II

Very dangerous flammable liquid.

Limitation of the use of organic

solvents:

Forbidden

Germany

Storage code :

Hazardous incident ordinance:

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria:

 Category
 Reference number

 P5c: Flammable liquids 2 and 3 not falling under P5a or P5b
 1.2.5.3

Hazard class for water: 2

Technical instruction on air quality

control:

Category Conc. (% w/w)

AOX: The pro

The product contains organically bound halogens and can contribute to the AOX value in waste water.

References: Other Rules:

- BGR 190 (Rules for the use of respiratory protective equipment)

- BGR 192 (Rules for the use of eye and face protection)

- BGR 195 (Rules for the use of gloves)

Switzerland

VOC content: 28.3 % (w/w)

National regulations Non-GHS

List name	Product/ingredient name	Name on list	Classification	Notes
FG MAC-values list	titanium dioxide	Titanium dioxide (inhalable fraction)	K3	-
DFG MAC-values list	ethylbenzene	Ethylbenzene	K3	-

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

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SECTION 16: Other information

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

H226 Flammable liquid and vapor

H226 Flammable liquid and vapor. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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

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.

H413 May cause long lasting harmful effects to aquatic life.
EUH066 Repeated exposure may cause skin dryness or cracking.

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

Aquatic Chronic 4 AQUATIC HAZARD (LONG-TERM) - Category 4

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

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
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITIZATION - Category 1
Skin Sens. 1B SKIN SENSITIZATION - Category 1B

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
SKIN CORROSION/IRRITATION	On basis of test data Calculation method
1	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.

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Safe Use of Mixture Information Hempadur 15579 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 category (ies)	Maximum duration	Ventilation Type and air changes per hour		Respiratory	Eye	Hands
activity							
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.









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