RESIPLAST

SAFETY DATA SHEET of:

EPISOL PU 43 OP MAT

Revision date: Thursday, November 26, 2020

S95.588

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

1.1 Product identifier:

EPISOL PU 43 OP MAT

UFI: /

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

For professional use only

Concentration in use: /

1.3 Details of the supplier of the safety data sheet:

RESIPLAST NV

Gulkenrodestraat 3

B2160 Wommelgem

Phone: 033200211 — Fax: 033226380

E-mail: info@resiplast.be — Website: http://www.resiplast.be/

1.4 Emergency telephone number:

+32 70 245 245

2 SECTION 2: Hazards identification:

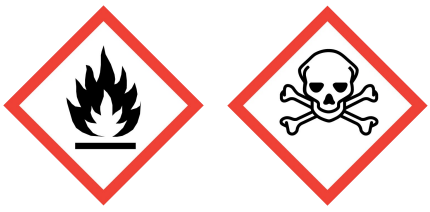
2.1 Classification of the substance or mixture:

Classification of the substance or mixture in accordance with regulation (EU) 1272/2008:

EUH014 H226 Flam. Liq. 3 H317 Skin Sens. 1A H331 Acute tox. 3 H335 STOT SE 3 H412 Aquatic Chronic 3

2.2 Label elements:

Pictograms:



Signal word:

Danger

Hazard statements:

EUH014:	Reacts violently with water.
H226 Flam. Liq. 3:	Flammable liquid and vapour.
H317 Skin Sens. 1A:	May cause an allergic skin reaction.
H331 Acute tox. 3:	Toxic if inhaled.
H335 STOT SE 3:	May cause respiratory irritation.
H412 Aquatic Chronic 3:	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P261:	Avoid breathing dust/vapours/spray.
P280:	Wear protective gloves, protective clothing, eye protection, face protection.
P304+P340:	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333+P313:	If skin irritation or rash occurs: Get medical advice/attention.
P403+P233:	Store in a well-ventilated place. Keep container tightly closed.
P501:	Dispose of contents/container in accordance with local/regional/national/international regulations.

Contains:

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-g-hydroxypoly(oxyethylene) a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-g-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylen) Hexamethylene diisocyanate polymer

2.3 Other hazards:

None

3 SECTION 3: Composition/information on ingredients:

Hexamethylene diisocyanate polymer	≤ 80 %	CAS number: EINECS: REACH Registration number: CLP Classification:	28182-81-2 931-288-4 01-2119488177-26 **H317 Skin Sens. 1** **H331 Acute tox. 3** **H335 STOT SE 3**
Hydrocarbons, C9, aromatics	≤ 20 %	CAS number: EINECS: REACH Registration number: CLP Classification:	 918-668-5 01-2119455851-35 **EUH066** **H226 Flam. Liq. 3** **H304 Asp. Tox. 1** **H335 STOT SE 3** **H336 STOT SE 3** **H411 Aquatic Chronic 2**
tosyl isocyanate	≤ 4 %	CAS number: EINECS: REACH Registration number: CLP Classification:	4083-64-1 223-810-8 **EUH014** **H315 Skin Irrit. 2** **H319 Eye Irrit. 2** **H335 STOT SE 3**

a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-g-hydroxypoly(oxyethylene) a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-g-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylen)	≤ 3 %	CAS number: EINECS: 400-830-7 REACH Registration number: 01- 0000015075-76 CLP Classification: **H317 Skin Sens. 1** **H411 Aquatic Chronic 2**
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	≤ 0.9 %	CAS number: EINECS: REACH Registration number: 01- 2119491304-40 CLP Classification: **H317 Skin Sens. 1A** **H400 Aquatic Acute 1** **H410 Aquatic Chronic 1**
dibutyltin dilaurate	≤ 0.2 %	CAS number: 77-58-7 EINECS: 201-039-8 REACH Registration number: 01-2119496068-27 CLP Classification: **H314 Skin Corr. 1C** **H317 Skin Sens. 1** **H341 Muta. 2** **H360FD Repr. 1B** **H370 STOT SE 1** **H372 STOT RE 1** **H410 Aquatic Chronic 1**

For the full text of the H phrases mentioned in this section, see section 16.

4 SECTION 4: First aid measures:

4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur.

Skin contact: Remove contaminated clothing, rinse skin with plenty of water and immediately transport to hospital.

Eye contact: Thoroughly rinse with water (contact lenses to be removed if this is easily done) then take to physician.

Ingestion: Rinse mouth, do not induce vomiting, take to hospital immediately.

Inhalation: Let sit upright, fresh air, rest and take to hospital.

4.2 Most important symptoms and effects, both acute and delayed:

Skin contact: Caustic, redness, pain, serious burns

Eye contact: Caustic, redness, blurred vision, pain

Ingestion: Caustic, lack of breath, vomiting, blisters on lips and tongue, burning pain in mouth and throat, gullet and stomach

Inhalation: Headache, dizziness, nausea, drowsiness, unconsciousness

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

None

5 SECTION 5: Fire-fighting measures:

5.1 Extinguishing media:

CO2, foam, powder, sprayed water

5.2 Special hazards arising from the substance or mixture:

None

5.3 Advice for firefighters:

Extinguishing agents to be avoided: None

6 SECTION 6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

6.2 Environmental precautions:

Do not allow to flow into sewers or open water.

6.3 Methods and material for containment and cleaning up:

Contain released substance, store into suitable containers. If possible, remove by using absorbent material.

6.4 Reference to other sections:

For further information, check sections 8 & 13.

7 SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Handle with care to avoid spillage.

7.2 Conditions for safe storage, including any incompatibilities:

Keep in a sealed container in a closed, frost-free, ventilated room.

7.3 Specific end use(s):

For professional use only

8 SECTION 8: Exposure controls/personal protection:

8.1 Control parameters:

Listing of the hazardous ingredients in section 3, of which the TLV value is known

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8.2 Exposure controls:

Inhalation protection:	Use with sufficient exhaust ventilation. If necessary, use an air-purifying face mask in case of respiratory hazards. Use the ABEK type as protection against these troublesome levels.	
Skin protection:	Handling with Viton-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,7 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands.	
Eye protection:	Keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems.	

Other protection:	Wear impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question.	

9 SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

Melting point/melting range:	/
Boiling point/Boiling range:	166 °C — 285 °C
pH:	/
pH 1% diluted in water:	/
Vapour pressure/20°C,:	300 Pa
Vapour density:	Not applicable
Relative density, 20°C:	/
Appearance/20°C:	Liquid
Flash point:	58 °C
Flammability (solid, gas):	Not applicable
Auto-ignition temperature:	325 °C
Upper flammability or explosive limit, (Vol %):	6.000 %
Lower flammability or explosive limit, (Vol %):	0.800 %
Explosive properties:	Not applicable
Oxidising properties:	Not applicable
Decomposition temperature:	/
Solubility in water:	Not soluble
Partition coefficient: n-octanol/water:	Not applicable
Odour:	characteristic
Odour threshold:	Not applicable
Dynamic viscosity, 20°C:	/
Kinematic viscosity, 40°C:	/
Evaporation rate (n-BuAc = 1):	0.200

9.2 Other information:

Volatile organic component (VOC):	11.21 %
Volatile organic component (VOC):	/
Sustained combustion test :	/

10 SECTION 10: Stability and reactivity:

10.1 Reactivity:

Stable under normal conditions.

10.2 Chemical stability:

Extremely high or low temperatures.

10.3 Possibility of hazardous reactions:

Reacts violently with water.

10.4 Conditions to avoid:

Protect from sunlight and do not expose to temperatures exceeding + 50°C.

10.5 Incompatible materials:

Acids, alkalines, oxidants, reductants

10.6 Hazardous decomposition products:

Under recommended usage conditions, hazardous decomposition products are not expected.

11 SECTION 11: Toxicological information:

11.1 Information on toxicological effects:

H317 Skin Sens. 1A: May cause an allergic skin reaction.

H331 Acute tox. 3: Toxic if inhaled.

H335 STOT SE 3: May cause respiratory irritation.

Calculated acute toxicity, ATE oral: /

Calculated acute toxicity, ATE dermal: /

Hexamethylene diisocyanate polymer	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5 000 mg/kg ≥ 5 000 mg/kg 3 mg/l
Hydrocarbons, C9, aromatics	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	3 492 mg/kg 3 160 mg/kg ≥ 50 mg/l
tosyl isocyanate	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	2 600 mg/kg ≥ 5 000 mg/kg ≥ 50 mg/l
a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-g-hydroxypoly(oxyethylene) a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-g-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylen)	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5 000 mg/kg ≥ 5 000 mg/kg ≥ 50 mg/l
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5 000 mg/kg ≥ 5 000 mg/kg ≥ 50 mg/l
dibutyltin dilaurate	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	2 071 mg/kg ≥ 5 000 mg/kg ≥ 50 mg/l

12 SECTION 12: Ecological information:

12.1 Toxicity:

Hexamethylene diisocyanate polymer	LC50 (Fish): EC50 (Daphnia):	> 100 mg/L (Danio rerio) > 100 mg/L (48h)

dibutyltin dilaurate	LC50 (Fish):	570 µg/L (30min)
	EC50 (Daphnia):	3.4 mg/l
	NOEC (Daphnia):	1.7 mg/l
	EC50 (Algae):	> 1 mg/l

12.2 Persistence and degradability:

No additional data available

12.3 Bioaccumulative potential:

No additional data available

12.4 Mobility in soil:

Water hazard class, WGK (AwSV): 3

Solubility in water: Not soluble

12.5 Results of PBT and vPvB assessment:

No additional data available

12.6 Other adverse effects:

No additional data available

13 SECTION 13: Disposal considerations:

13.1 Waste treatment methods:

Draining into the sewers is not permitted. Removal should be carried out by licensed services. Possible restrictive regulations by local authority should always be adhered to.

14 SECTION 14: Transport information:

14.1 UN number:

1866

14.2 UN proper shipping name:

UN 1866 Resin Solution, 3, III, (D/E)

14.3 Transport hazard class(es):

Class(es): 3

Identification number of the hazard: 30

14.4 Packing group:

III

14.5 Environmental hazards:

Not dangerous to the environment

14.6 Special precautions for user:

Hazard characteristics:	Risk of fire. Risk of explosion. Containments may explode when heated.
Additional guidance:	Take cover. Keep out of low areas.

15 SECTION 15: Regulatory information:

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

Water hazard class, WGK (AwSV):	3
Volatile organic component (VOC):	11.210 %
Volatile organic component (VOC):	/
Composition by regulation (EC) 648/2004:	Aromatic hydrocarbons 5% - 15%

15.2 Chemical Safety Assessment:

No data available

16 SECTION 16: Other information:

Legend to abbreviations used in the safety data sheet:

ADR:	The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE:	Acute Toxicity Estimate
BCF:	Bioconcentration factor
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling and Packaging of chemicals
EINECS:	European INventory of Existing commercial Chemical Substances
LC50:	median Lethal Concentration for 50% of subjects
LD50:	median Lethal Dose for 50% of subjects
Nr.:	Number
PTB:	Persistent, Toxic, Bioaccumulative
TLV:	Threshold Limit Value
UFI:	Unique Formula Identifier
vPvB:	very Persistent and very Bioaccumulative substances
WGK:	Water hazard class
WGK 1:	Slightly hazardous for water
WGK 2:	Hazardous for water
WGK 3:	Extremely hazardous for water

Legend to the H Phrases used in the safety data sheet:

EUH014: Reacts violently with water. **EUH066:** Repeated exposure may cause skin dryness or cracking. **H226 Flam. Liq. 3:** Flammable liquid and vapour. **H304 Asp. Tox. 1:** May be fatal if swallowed and enters airways. **H314 Skin Corr. 1C:** Causes severe skin burns and eye damage. **H315 Skin Irrit. 2:** Causes skin irritation. **H317 Skin Sens. 1:** May cause an allergic skin reaction. **H317 Skin Sens. 1A:** May cause an allergic skin reaction. **H319 Eye Irrit. 2:** Causes serious eye irritation. **H331 Acute tox. 3:** Toxic if inhaled. **H335 STOT SE 3:** May

cause respiratory irritation. **H336 STOT SE 3:** May cause drowsiness or dizziness. **H341 Muta. 2:** Suspected of causing genetic defects. **H360FD Repr. 1B:** May damage fertility. May damage the unborn child. **H370 STOT SE 1:** Causes damage to organs. **H372 STOT RE 1:** Causes damage to organs through prolonged or repeated exposure. **H400 Aquatic Acute 1:** Very toxic to aquatic life. **H410 Aquatic Chronic 1:** Very toxic to aquatic life with long lasting effects. **H411 Aquatic Chronic 2:** Toxic to aquatic life with long lasting effects. **H412 Aquatic Chronic 3:** Harmful to aquatic life with long lasting effects.

CLP Calculation method:

Calculation method

Reason of revision, changes of following items:

Sections: 2.1, 2.2, 16

SDS reference number:

ECM-106422,00

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 2015/830. Classification has been calculated in accordance with European regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application , the user must carry out a material suitability and safety study himself.