(in accordance with Regulation (EU) 2020/878)



Polyurethan resin for high thickness part B

Date of issue: 29/01/2021 Version 1

Page 1 de 10 Revision date: 07/03/2023 Print date: 22/05/2023 Version 2 (replace the version 1)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY OR UNDERTAKING.

1.1 Product ID.

Polyurethan resin for high thickness part B Product Name:

K550-90WX-P00N-CW3M UFI:

1.2 Identified relevant uses of the substance or mixture and uses not recommended.

Uses not recommended:

Uses other than those advised.

1.3 Details of the vendor of the safety data sheet.

RESIN PRO SRL Enterprise: Address: Via 25 Aprile z.i. snc

19021 Arcola (SP)

Italy

Telephone: +39 0187 955108 Email: info@resinpro.it Web: www.resinpro.it

CAV di Napoli, tel. 0817472870 (Azienda ospedaliera "Antonio Cardarelli", via A. Cardarelli 9, Napoli)

CAV di Firenze, tel. 0554277238 (Azienda ospedaliera universitaria Careggi, via Largo Brambilla 3, Firenze)

CAV di Pavia, tel. 038224444 (IRCCS Fondazione Salvatore Maugeri, via S. Maugeri 10, Pavia)

CAV di Milano, tel. 0266101029 (Ospedale Niguarda Ca' Granda, piazza Ospedale Maggiore 3, Milano)

CAV di Bergamo, tel. 800883300 (Azienda ospedaliera "Papa Giovanni XXIII", piazza OMS 1, Bergamo)

CAV di Roma, tel. 0649970698 (Policlinico Umberto I, viale del Policlinico 155, Rome)

CAV di Roma, tel. 063054343 (Policlinico "Agostino Gemelli", largo A. Gemelli 8, Rome)

CAV di Foggia, tel. 800183459 (Azienda ospedaliera universitaria Ospedali riuniti, Viale L. Pinto 1, Foggia)

CAV di Roma, tel. 0668591 (Ospedale pediatrico Bambino Gesù, piazza Sant'Onofrio 4, Rome)

CAV di Verona, tel. 800011858 (Azienda ospedaliera universitaria integrata di Verona, Piazzale A. Stefani 1, Verona)

SECTION 2: IDENTIFICATION OF HAZARDS.

2.1 Classification of the substance or mixture.

According to Regulation (EC) No 1272/2008:

Acute Tox. 4: Harmful if swallowed.

Aquatic Acute 1: Very toxic to aquatic organisms.

Aquatic Chronic 1: Very toxic to aquatic organisms, with long-lasting harmful effects. Skin

Sens. 1: May cause an allergic skin reaction.

2.2 Label elements.

Labelling in accordance with Regulation (EC) No 1272/2008:

Pictograms:





Word of warning:

Attention

Hazard statements:

H302 Harmful in case of ingestion. H317 Can cause an allergic skin reaction.

H410 Very toxic to aquatic organisms, with long-lasting harmful effects.

Precautionary statements:

Keep out of reach of children P102 Read the label before use P103 P404 Store in a closed container P405 Keep under lock and key

P501 Dispose of the product/container in accordance with hazardous waste, container or container waste regulations

(in accordance with Regulation (EU) 2020/878)



Polyurethan resin for high thickness part B

Version 1 Date of issue: 29/01/2021 Page 2 de 10
Version 2 (replace the version 1) Revision date: 07/03/2023 Print date: 22/05/2023

P261 Avoid breathing dust/smoke/gas/mist/vapors/aerosol. Q273

Avoid its release into the environment.

P280 Wear gloves/protective clothing/protective equipment for the eyes/face/ears according to point 8.2 of the

safety data sheet.

P321 Specific treatment is needed (see reference to first aid instructions in the security).

P362+P364 Remove contaminated garments and wash them before reuse.

P391 Pick up the discharge.

P501 Eliminate the contents or container according to the applicable regulations.

Contains:

Branched polyester

2.3 Other dangers.

The mixture does not contain substances classified as PBT (Persistent, Bioaccumulative and Toxic). The mixture does not contain substances classified as vPvB (very persistent and very

bioaccumulative). The mixture does not contain substances with endocrine disrupting properties.

Under normal conditions of use and in its original form, the product does not have any other negative effects on health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON COMPONENTS.

3.1 Substances.

Not applicable.

3.2 Mixtures.

Substances that represent a danger to health or the environment in accordance with Regulation (EC) No. 1272/2008, are assigned a Community workplace exposure limit, are classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentration	(*) Classification - Regulation 1272/2008	
			Classification	Specific concentration limits and Acute Toxicity Estimation
	Branched polyester	25 - 100 %	Acute Tox. 4, H302 - Aquatic Acute 1, H400 (M=10) - Aquatic Chronic 1, H410 (M=10) - Skin Sens. 1, H317	-

^(*) The full text of the H-phrases is detailed in section 16 of this Safety Data Sheet.

Description of first aid

SECTION 4: FIRST AID

In cases of doubt, or when symptoms of discomfort persist, seek medical attention. Never give anything orally to people who are unconscious.

Inhalation.

Place the injured person outdoors, keep him warm and at rest, if breathing is irregular or stops, practice artificial respiration.

Eye contact.

Remove contact lenses, if you wear and it is easy to do. Wash your eyes thoroughly with clean, fresh water for at least 10 minutes, pulling up your eyelids and seek medical attention.

Skin contact.

Remove contaminated clothing. Wash the skin vigorously with soap and water or a suitable skin cleanser. NEVER use solvents or diluents.

Ingestion.

If accidentally ingested, seek medical attention immediately. Keep you at rest. NEVER make you vomit.

(in accordance with Regulation (EU) 2020/878)



Polyurethan resin for high thickness part B

Date of issue: 29/01/2021 Version 1

Page 3 de 10 Revision date: 07/03/2023 Print date: 22/05/2023 Version 2 (replace the version 1)

4.1 Main symptoms and effects, acute and delayed.

Harmful product, prolonged exposure by inhalation can cause anesthetic effects and the need for immediate medical assistance. It can cause an allergic reaction, dermatitis, redness or inflammation of the skin.

4.2 Indication of any medical care and special treatment to be provided immediately. In cases of doubt, or when symptoms of discomfort persist, seek medical attention. Never give anything orally to people who are unconscious. Do not induce vomiting. If the person vomits, clear the airway.

SECTION 5: FIRE-FIGHTING MEASURES

The product is NOT classified as flammable, in case of fire the following measures must be followed:

5.1 Extinguishing media.

Appropriate extinguishing

media:

Extinguishing powder or CO2. In case of more serious fires also foam resistant to alcohol and water spray.

Unsuitable extinguishing media:

Do not use for extinguishing direct jet of water. In the presence of electrical voltage it is not acceptable to use water or foam as an extinguishing medium.

5.2 Specific hazards arising from the substance or mixture.

Special risks.

Exposure to combustion or decomposition products can be harmful to health.

5.3 Recommendations for firefighting personnel.

Cool tanks, cisterns or containers near the source of heat or fire with water. Take into account the direction of the wind. Prevent products used in firefighting from entering drains, sewers or waterways. Product residues and extinguishing media can contaminate the aquatic environment.

Fire protection equipment.

Depending on the extent of the fire, the use of heat protection suits, self-contained breathing apparatus, gloves, goggles or face masks and boots may be necessary.

SECTION 6: MEASURES IN CASE OF ACCIDENTAL SPILLAGE.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protective measures, see section 8.

6.2 Environmental precautions.

Product hazardous to the environment, in case of large spills or if the product contaminates lakes, rivers or sewers, inform the competent authorities, according to local legislation. Avoid contamination of drains, surface or groundwater, as well as soil.

6.3 Containment and cleaning methods and material.

Contain and collect the spill with inert absorbent material (earth, sand, vermiculite, diatomaceous earth ...) and clean the area immediately with an appropriate decontaminant.

Deposit waste in closed containers suitable for disposal, in accordance with local and national regulations (see section 13).

6.4 Reference to other sections.

For exposure control and individual protective measures, see section 8. For waste disposal, follow the recommendations in section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling.

For personal protection, see section 8.

Smoking, eating and drinking should be prohibited in the area of application.

(in accordance with Regulation (EU) 2020/878)



Polyurethan resin for high thickness part B

Version 1 Date of issue: 29/01/2021 Page 4 de 10
Version 2 (replace the version 1) Revision date: 07/03/2023 Print date: 22/05/2023

Comply with legislation on safety and hygiene at work.

Never use pressure to empty the containers, they are not pressure resistant containers. Store the product in containers of a material identical to the original.

7.2 Secure storage conditions, including possible incompatibilities.

Store according to local legislation. Observe the indications on the label. Store containers between 5 and 25 °C, in a dry and well-ventilated place, away from heat sources and direct sunlight. Keep away from ignition points. Keep away from oxidizing agents and strongly acidic or alkaline materials. No smoking. Prevent entry to unauthorized persons. Once opened, the containers must be carefully closed again and placed vertically to avoid spills.

Classification and storage threshold quantity in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

		Threshold quantity (tonnes) for the purposes of applying	
Code	Description	Lower Level Requirement s	Higher Level Requirement s
E1	ENVIRONMENTAL HAZARDS - Hazardous to the aquatic environment in categories acute 1 or chronic 1	100	200

7.3 Specific end uses.

Low exothermia castings

SECTION 8: EXPOSURE/INDIVIDUAL PROTECTION CONTROLS

8.1 Control parameters.

The product does NOT contain substances with Environmental Occupational Exposure Limit Values. The product does NOT contain substances with Biological Limit Values.

8.2 Exposure controls.

Technical measures:

Provide adequate ventilation, which can be achieved through good local extraction-ventilation and a good general extraction system.

Concentration:	100 %						
Uses:	Professional use.						
Respiratory protection:							
EPI:	Filter mask for protection against gases and particles						
Characteristics:	CE marking Category III. The mask must have a wide field of vision and anatomical shape to offer tightness and tightness.						
CEN standards:	IN 136, IN 140, IN 405						
Maintenance:	It should not be stored in places exposed to high temperatures and humid environments before use. The condition of the inhalation and exhalation valves of the facial adapter should be specially monitored.						
Remarks:	The manufacturer's instructions regarding the use and maintenance of the equipment should be read carefully. The necessary filters will be attached to the equipment according to the specific characteristics of the risk (Particles and aerosols: P1-P2-P3, Gases and vapors: A-B-E-K-AX) and changed as advised by the manufacturer.						
Type of filter required:	A2						
Hand protection							
EPI: Characteristics:	Protective gloves against chemicals CE marking Category III.						
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420						
Maintenance:	They should be stored in a dry place, away from possible sources of heat, and exposure to sunlight should be avoided as far as possible. No modifications will be made to the gloves that may alter their resistance nor will paints, solvents or adhesives be applied.						
Remarks:	The gloves should be the correct size, and fit the hand without being too loose or too tight. They should always be used with clean and dry hands.						
Material:	PVC (Polyvinyl Chloride) Penetration time (min.): Penetration time thickness (mm):						

(in accordance with Regulation (EU) 2020/878)

RESIN PRO

Page 5 de 10

Polyurethan resin for high thickness part B

Version 1 Date of issue: 29/01/2021

Version 2 (replace the version 1) Revision date: 07/03/2023 Print date: 22/05/2023

Eye protection: EPI: Protective glasses with integral frame CE marking Category II. Integral frame eye protector for protection against splashes Characteristics: of liquids, dust, fumes, mists and vapors. CEN standards: IN 165, IN 166, IN 167, IN 168 Visibility through the evenieces must be optimal for which these elements must be cleaned daily, the Maintenance: protectors must be disinfected periodically following the manufacturer's instructions. Indicators of deterioration can be: yellow coloration of the eyepieces, superficial scratches on the Remarks: eyepieces, tears, etc. Skin protection: FPI: Protective clothing CE marking Category II. Protective clothing should not be narrow or loose so that it Characteristics: does not interfere with the wearer's movements. CEN standards: The washing and storage instructions provided by the manufacturer must be followed to ensure Maintenance: unvarying protection. Protective clothing should provide a level of comfort consistent with the level of protection being provided. Remarks: It must provide against the risk against which it protects, with environmental conditions, the level of user activity and the intended time of use. EPI: Work shoes Characteristics: CE marking Category II. CFN standards: EN ISO 13287, EN 20347 These items are adapted to the shape of the first user's foot. For this reason, as well as for Maintenance: hygiene reasons, its reuse by another person should be avoided. Work footwear for professional use is the one that incorporates protective elements intended to Protect the user from injuries that could cause accidents, you should check the workers for whom this Remarks: footwear is suitable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties.

Physical Condition:

Liquid Color:

Colorless

Odor: Not applicable/Not available due to the nature/properties of the product.

Olfactory threshold: Not applicable/Not available due to the nature/properties of the product. Melting point: Not applicable/Not available due to the nature/properties of the product. Freezing point: Not

applicable/Not available due to nature/properties of the product.

Starting point/Boiling point/range: Not applicable/Not available due to nature/properties of the product. Flammability: Not applicable/Not available due to the nature/properties of the product.

Lower explosion limit: Not applicable/Not available due to the nature/properties of the product. Upper explosion limit: Not applicable/Not available due to the nature/properties of the product. Flash point: > 60 °C

Auto-ignition temperature: Not applicable/Not available due to the nature/properties of the product. Decomposition temperature: Not applicable/Not available due to the nature/properties of the product. pH: 5 (100%)

Kinematic viscosity: Not applicable/Not available due to the nature/properties of the product.

Solubility: Not applicable/Not available due to the nature/properties of the product.

Water solubility: Not applicable/Not available due to the nature/properties of the product. Lipid

Solubility: Not applicable/Not available due to the nature/properties of the product.

Partition coefficient (n-octanol/water)(logarithmic value): Not applicable/Not available due to nature/properties of the product.

Vapour pressure: Not applicable/Not available due to the nature/properties of the product.

Absolute density: 1.14 kg/m3

Relative density: Not applicable/Not available due to nature/properties of the product. Vapour density:

Not applicable/Not available due to the nature/properties of the product.

Particle characteristics: Not applicable/Not available due to the nature/properties of the product.

9.2 Other data.

Not applicable/Not available due to nature/properties of the product.

(in accordance with Regulation (EU) 2020/878)

Polyurethan resin for high thickness part B

Date of issue: 29/01/2021 **Version 1**

Page 6 de 10 Revision date: 07/03/2023 Print date: 22/05/2023 Version 2 (replace the version 1)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity.

The product does not present hazards due to its reactivity.

10.2 Chemical stability.

Unstable in contact with:

- Bases.

10.3 Possibility of dangerous reactions.

Neutralization may occur in contact with bases.

10.4 Conditions to be avoided.

- Avoid contact with bases.

10.5 Incompatible materials.

Avoid the following materials:

- Bases.

10.6 Hazardous decomposition products.

Depending on the conditions of use, the following products may be generated:

- Corrosive vapors or gases.

SECTION 11: TOXICOLOGICAL INFORMATION

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

No tested data are available for the product.

a) acute toxicity;

Classified product:

Acute oral toxicity, Category 4: Harmful if swallowed.

Acute toxicity estimation (ATE):

Mixtures:

ATE (Oral) = 500 mg/kg

b) skin corrosion or irritation;

Inconclusive data for classification.

c) severe eye injury or eye irritation; Inconclusive data for classification.

d) respiratory or skin sensitization; Classified product:

Skin sensitizer, Category 1: May cause an allergic skin reaction.

e) mutagenicity in germ cells; Inconclusive

data for classification.

f) carcinogenicity;

Inconclusive data for classification.

g) reproductive toxicity;

Inconclusive data for classification.

h) specific target organ toxicity (STOT) - single exposure; Inconclusive data for classification.

i) specific target organ toxicity (STOT) - repeated exposure; Inconclusive data for classification.

j) aspiration hazard;

(in accordance with Regulation (EU) 2020/878)

Polyurethan resin for high thickness part B

Date of issue: 29/01/2021

Page 7 de 10 Revision date: 07/03/2023 Print date: 22/05/2023 Version 2 (replace the version 1)

Inconclusive data for classification.

11.2 Information relating to other hazards.

Endocrine disrupting properties.

This product does not contain components with endocrine disrupting properties with effects on human health.

Other data.

No information is available on other adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity.

No information is available on the ecotoxicity of the substances present.

12.2 Persistence and degradability.

No information is available on the biodegradability of the substances present. No information is available on the degradability of the substances present. No information is available on the persistence and degradability of the product.

12.3 Bioaccumulation potential.

No information is available on the bioaccumulation of the substances present.

12.4 Mobility on the ground.

No information is available on mobility on the ground.

The product should not be allowed to pass into sewers or waterways. Avoid penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available on the PBT and vPvB titration of the product.

12.6 Endocrine disrupting properties.

This product does not contain components with endocrine disrupting properties on the environment.

12.7 Other side effects.

No information is available on other adverse effects on the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Methods for waste treatment.

It is not allowed to be discharged into sewers or waterways. Waste and empty packaging must be handled and disposed of in accordance with applicable local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: INFORMATION RELATING TO TRANSPORT

Transport according to ADR/TPC standards for road transport, RID by rail, IMDG by sea and ICAO/IATA for air transport.

Land: Road transport: ADR, Rail transport: RID. Transport documentation: Consignment note and written instructions. Sea:

Transport by boat: IMDG.

Transport documentation: Bill of lading. Air: Air transport: IATA/ICAO. Transport

document: Air waybill.

(in accordance with Regulation (EU) 2020/878)

Polyurethan resin for high thickness part B

Date of issue: 29/01/2021

Page 8 de 10 Print date: 22/05/2023 Revision date: 07/03/2023 Version 2 (replace the version 1)

14.1 UN number or ID number.

UN No.: UN3082

14.2 Official United Nations transport designation.

Description:

ADR/RID: UN 3082, LIQUID SUBSTANCE HAZARDOUS TO THE ENVIRONMENT, N.O.S. (CONTAINING BRANCHED POLYESTER), 9,

GE III, (-)

IMDG: UN 3082, ENVIRONMENTALLY HAZARDOUS LIQUID SUBSTANCE, N.O.S. (CONTAINING BRANCHED POLYESTER), 9, GE/E

III, MARINE POLLUTANT

ICAO/IATA: UN 3082, ENVIRONMENTALLY HAZARDOUS LIQUID SUBSTANCE, N.O.S. (CONTAINING BRANCHED

POLYESTER), 9, GE III

14.3 Class(es) of transport hazard.

Class(s): 9

14.4 Packing group.

Packing group: III

14.5 Dangers to the environment.

Marine pollutant: Yes



Dangerous for the environment

Transport by ship, FEm - Emergency cards (F - Fire, S - Spills): F-A,S-F

14.6 Special precautions for users.

Tags: 9



Hazard number: 90 ADR limited quantity: 5 L IMDG limited quantity: 5 L ICAO limited quantity: 30 kg B

Provisions relating to bulk transport in ADR: Not authorized bulk transport according to the ADR. Act on

point 6.

14.7 Bulk shipping in accordance with IMO instruments.

The product is not affected by bulk transport on ships.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental legislation and regulations specific to the substance or mixture.

The product is not affected by Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Volatile organic compound (VOC) VOC content (w/w): 0,09 % VOC content: 1,152 g/l

(in accordance with Regulation (EU) 2020/878)



Polyurethan resin for high thickness part B

Date of issue: 29/01/2021 Version 1

Page 9 de 10 Revision date: 07/03/2023 Print date: 22/05/2023 Version 2 (replace the version 1)

Product classification according to Annex I to Directive 2012/18/EU (SEVESO III): E1

The product is not covered by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure laid down in Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals.

15.2 Chemical safety assessment.

A chemical safety assessment of the product has not been carried out.

SECTION 16: OTHER INFORMATION

Full text of the H-phrases in section 3:

H302 Harmful in case of ingestion. H317 Can cause an allergic skin reaction. H400 Very toxic to aquatic organisms.

H410 Very toxic to aquatic organisms, with long-lasting harmful effects.

Classification codes:

Acute Tox. 4: Acute oral toxicity, Category 4

Aquatic Acute 1: Acute toxicity to the aquatic environment, Category 1 Aquatic Chronic ${\bf 1}$: Chronic effects to the aquatic environment, Category ${\bf 1}$ Skin Sens. ${\bf 1}$:

Skin sensitiser, Category 1

Modifications compared to the previous version:

- Changes to Supplier Information (SECTION 1.3).
- Modification of specific hazards (SECTION 2.3).
- Modification in fire-fighting measures (SECTION 5.2).
- Modifications in the measures in case of accidental spillage (SECTION 6.1).
- Modifications to the measures in case of accidental spillage (SECTION 6.2).
- Modification in the values of the physicochemical properties (SECTION 9).
- Modification of the information of the stability and reactivity conditions (SECTION 10.2).
- Modification of the information of the stability and reactivity conditions (SECTION 10.3).
- Modification of the information of the stability and reactivity conditions (SECTION 10.4).
- Modification of the information of the stability and reactivity conditions (SECTION 10.5).
- Modification of the information of the stability and reactivity conditions (SECTION 10.6).
- Change in hazard classification (SECTION 11.1).
- Change of ADR/IMDG/ICAO/IATA/RID classification (section 14).
- National legislative changes (SECTION 15.1).
- Added abbreviations and acronyms (SECTION 16).

Classification and procedure used to determine the classification of mixtures under Regulation (EC) No 1272/2008 [CLP]:

Conformable a Test data Physical hazards

Health hazards Calculation method Hazards to the environment Method

calculation

It is advisable to carry out basic training regarding occupational safety and hygiene to carry out a correct handling of the product.

(in accordance with Regulation (EU) 2020/878)

Polyurethan resin for high thickness part B

Version 1 Date of issue: 29/01/2021

Version 2 (replace the version 1) Revision date: 07/03/2023



Page 10 de 10 Print date: 22/05/2023

Abbreviations and acronyms used:

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CEN: Committee European Standardization.

EPI: Team of personal protection.

IATA: International Air Transport Association. ICAO:
 Organization of International Civil Aviation.
 IMDG: Code International Maritime Dangerous Goods.

RID: Regulation concerning the international transport of dangerous goods by rail.

Main bibliographic references and data sources:

http://eur-lex.europa.eu/homepage.html

http://echa.europa.eu/

Regulation (EU) 2020/878.

Regulation (EC) No 1907/2006.

Regulation (EC) No 1272/2008.

The information provided in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

The information in this Product Safety Data Sheet is based on current knowledge and current EC and national laws, in that the working conditions of users are beyond our knowledge and control. The product must not be used for purposes other than those specified, without first having a written instruction on its handling. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established in the legislations.