SAFETY DATA SHEET

Product Name: AquaMAX (Pack B)

Data Sheet: 546
Revision: A
Date: 06/11/2025

SECTION 1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY / UNDERTAKING

1.1 Product Identifier:

Trade Name: AquaMAX (Pack B)

Product Type: **HARDENER** component of epoxy coating

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

Product Use: Epoxy resin coating

1.3 Details of the Supplier of the Safety Data Sheet

Optus Resin
415 Constance Drive
Warminster, PA 18974

Telephone: +(833) 466-7887

Email: techinfo@optusresin.com

1.4 Emergency Telephone Number

For 24/7 multilingual advice for a spill, leak, fire, exposure, or accident call CHEMTREC at +1 800-424-9300 (toll-free) and provide CCN 693774. Backup number: +1 703-527-3887.

SECTION 2) HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to regulation (EC) No. 1272/2008 [CLP/GHS]

2.2 Label elements

Hazard pictograms

Signal Word Danger

Hazardous Ingredients 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with N1, N2-bis(2-aminoethyl)-1,2-ethanediamine, 2-(chloromethyl)oxirane, 2-[[4

Hazard statements
Causes serious eye damage.
Harmful if swallowed.
Causes skin irritation.
May cause respiratory irritation.
Harmful to aquatic life with long lasting effects.

Precautionary statements Prevention	Wear eye or face protection Wear protective gloves. Avoid release to the environment.
Response	**IF INHALED:** Remove victim to fresh air and rest in a comfortable position for breathing. **IF IN EYES:** Immediately call a POISON CENTRE or physician.
Storage	Store locked up.
Disposal	Dispose of contents and container in accordance with all local/regional/ international regulations.

2.3 Other hazards

Results of the PBT and vPvB assessment

PBT: N/A

vPvB: N/A

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture	Mixture		
CAS: 1064105-47-0	1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with N1, N2-bis(2-aminoethyl)-1,2-ethanediamine, 2-(chloromethyl)oxirane, 2-[[4	Eye Dam. Irrit. H318	50-70%

SECTION 4) FIRST AID MEASURES

Eye Contact	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin Contact	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reusing. Clean shoes thoroughly before reuse.
Ingestion	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Protection of first aid personnel	No action shall be taken involving any personnel 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.
Protection of first aid personnel	No action shall be taken involving any personnel 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 the 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	May cause respiratory irritation.
Skin Contact	Causes skins irritation.
Ingestion	Harmful if swallowed. May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye Contact	Adverse symptoms may include the following: pain, watering, redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation, coughing.
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) FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media:	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur, and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters	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.
Special protective equipment for fire-fighters	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) confirming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6) ACCIDENTAL RELEASE MEASURES

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For Emergency Responders	If specialized clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel"

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). Water polluting material. 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). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small Spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large Spill	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 spillages with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. 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

Protective measures	Put on appropriate personal protective equipment (See section 8 of SDS). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash their hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep the container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations: Not available

Industrial sector specific solutions: Not available

SECTION 8) EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits: No exposure limit value known

Recommended monitoring procedures If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European standards 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.

DNEL/DMEL Summary N/A

PNEC Summary N/A

8.2 Exposure Controls

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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 dust. 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.

Skin Protection

Hand Protection Chemical-resistant, impervious gloves complying with an approved times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated standard should be worn at all.

Body protection Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
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

Appearance

Physical state	Liquid
Colour	Clear, Straw
Odor	Sweet
Odor Threshold	N/A
pH	N/A
Melting point/Freezing Point	N/A
Initial Boiling Point and Range	100ºC
Flash Point	N/A
Evaporation Range	N/A
Upper/lower flammability or explosive limits	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Relative Density	N/A
Density	1,060kg/m³
Solubility (ies)	N/A
Solubility in Water	Soluble
Partition coefficient:noctanol/water	N/A
Auto-Ignition Temperature	N/A
Decomposition Temperature	N/A
Viscosity	Dynamic: 18,000 mPas @ 25ºC Kinematic: N/A
Explosive properties	N/A
Oxidising properties	N/A

9.2 Other Information

No additional Information

SECTION 10) PHYSICAL AND CHEMICAL PROPERTIES

10.1 Reactivity	Stable under normal conditions.
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	No specific data
10.5 Incompatible materials	No specific data
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Reacts with considerable heat release with some curing agents.

SECTION 11) TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Conclusion/summary: **Not available**

Acute Toxicity Estimates

Route	ATE Value
Oral	909.1mg/kg

Irritation/Corrosion Conclusion/Summary

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available

Sensitization Conclusion/Summary

Skin	Not Available
Respiratory	Not Available

Mutagenicity Conclusion/Summary	Not Available
Carcinogenicity Conclusion/Summary	Not Available
Reproductive Toxicity Conclusion/Summary	Not Available
Teratogenicity Conclusion/Summary	Not Available
Specific target organ toxicity (single exposure)	Not Available
Specific target organ toxicity (repeated exposure)	Not Available
Aspiration hazard	Not Available
Information on the likely routes of exposure	Not Available

Potential acute health effects

Eye contact	Causes serious eye damage
Inhalation	Harmful if swallowed. May cause burns to mouth, throat and stomach.
Skin contact	Causes skin irritation
Ingestion	May cause respiratory irritation

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	Adverse symptoms may include the following pain. watering, redness
Inhalation	Adverse symptoms may include the following: Respiratory tract irritation, Coughing
Skin contact	Adverse symptoms may include the following: Pain or redness, Redness, Blistering may occur
Ingestion	Adverse symptoms may include the following: Stomach pains

Delayed and immediate effects and chronic effects from short and long-term exposure

Short Term Exposure Potential immediate effects	Not Available
Potential delayed effects	Not Available
Long term exposure Potential immediate effects	Not Available
Potential delayed effects	Not Available
Potential chronic health effects Conclusion/summary	Not Available
General	No known significant effects or critical hazards
Carcinogenicity	No known significant effects or critical hazards
Mutagenicity	No known significant effects or critical hazards
Teratogenicity	No known significant effects or critical hazards
Developmental effects	No known significant effects or critical hazards
Fertility effects	No known significant effects or critical hazards

SECTION 12) ECOLOGICAL INFORMATION

12.1 Toxicity Conclusion/Summary	Not Available
12.2 Persistence and degradability Conclusion/Summary	Not Available
12.3 Bioaccumulative potential	Not Available
12.4 Mobility in soil Soil/water partition coefficient (KOC)	Not Available
Mobility	Not Available
12.5 Results of PBT and vPvB assessment	
PBT	P: Not Available B: Not Available T: Not Available
vPvB	vP: Not Available vB: Not Available
12.6. Other adverse effects	No known significant effects or critical hazards.

SECTION 13) DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional/local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

The classification of the product may meet the criteria for a hazardous waste.

Packaging Methods of disposal

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.

Special Precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14) TRANSPORT INFORMATION

Regulatory Information	14.1. UN number	14.2. UN proper Shipping Name	14.3. Transport hazard class(es)	14.4 Packing group
ADR/ADN	Non-regulated			
RID	Non-regulated			
ADN	Non-regulated			
ICAO/IATA	Non-regulated			
IMO/IMDG	Non-regulated			

14.5. Environmental Hazards

Environmentally hazardous and/or marine pollutant: No

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.

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 -
Substances of very high concern.

List of substances subject to authorization.

Carcinogen: Not listed

Mutagen: Not listed

Toxic to Reproduction: Not listed

PBT: Not listed

vPvB: Not listed

Other EU Regulations

REACH Status	The substance(s) in this product has (have) been pre-registered and/or registered, or are exempted from registration, according to Regulation (EC) No. 1907/2006 (REACH)
Aerosol dispensers	N/A
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	N/A
EU - Prior informed consent. List of chemicals subject to the international PIC procedure (Annex I - Part 1)	Not Listed
EU - Prior informed consent. List of chemicals subject to the international PIC procedure (Annex I - Part 2)	Not Listed
EU - Prior informed consent. List of chemicals subject to the international PIC procedure (Annex I - Part 3)	Not Listed

Seveso II Directive
This product is not controlled under the seveso II Directive.

National Regulations

Water Discharge Policy (ABM)	Harmful or aquatic organisms., Abatement effort,.B

International Regulations

International Lists	Australia inventory (AICS) Not determined. Canada inventory Not determined Japan inventory Not determined China inventory (IECSC) All components are listed or exempted. Korea inventory Not determined New Zealand inventory (NZIoC) Not determined Philippines inventory (PICCS) All components are listed or exempted. United States inventory (TSCA 8b) Not determined Taiwan inventory (CSNN) All components are listed or exempted. China inventory (IECSC) Not determined. Philippines inventory (PICCS) Not determined
Chemical Weapons Convention	Not Listed
List Schedule I Chemicals	
Convention	Not Listed
List Schedule II Chemicals	
Chemical Weapons Convention	Not Listed
List Schedule III Chemicals	
Chemicals	Not Listed
15.2 Chemical Safety Assessment	This product contains substances for which chemical safety assessments are still required.

SECTION 16) OTHER INFORMATION

Abbreviations and acronyms

ATE = Acute toxicity estimate
CLP - Classification, labelling and packaging regulation [Regulation (EC) No.1272/2008] DNEL = Derived No Effect Level
DMEL = Derived minimal effect
EUH statement = CLP-specific hazard statement
PNEC = Predicted No effect concentration
RRN = REACH Registration Number
PBT = Persistent, bioaccumlative and toxic
vPvB = Very persistent and very bioacculative

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

Classification	Justification
Acute tox. 4, H302 (oral)	Calculation method
Skin corr./irrit 2, H315	Calculation method
Eye dam./irrit 1, H318	Calculation method
STOT SE 3, H335	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H302 (oral)	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications

Acute toxicity. 4. H302 Skin corr,/irrit.2, H315 Eye Dam./ittit.1 H318	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
Aquatic Chronic 3 , H412	AQUATIC HAZARD (LONG-TERM) - Category 3

Full text of abbreviated R phrases

R22 - Harmful if swallowed.

R41 - Risk of serious damage to eyes.

R37/38 - Irritating to respiratory system and skin.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications [DSD/DPD]

Xn - Harmful

Xi - Irritant

The data given here is based on current knowledge and experience. The purpose of this Safety Data is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.