

according to Regulation (EC) No 1907/2006 (REACH) as amended

# PLASTIC & METAL REAPIR SYSTEM - TPO (Part A)

Creation date 18th November 2024

Revision date Version 3.0

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

1.1. Product identifier PLASTIC & METAL REAPIR SYSTEM – TPO (Part A)

Substance / mixture mixture Number R 34374

UFI N9V2-QWHV-890E-WU29

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

#### Mixture's intended use

Barrier (Sealant). For professional use only.

Main intended use

PC-ADH-8 Multi-component adhesives and sealants

#### Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

# 1.3. Details of the supplier of the safety data sheet

**Supplier** 

Name or trade name RETECH, s.r.o.

Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00

Czech Republic

Identification number (CRN)25018205VAT Reg NoCZ25018205Phone+420327596428E-mailinfo@retech.czWeb addresswww.retech.com

Competent person responsible for the safety data sheet

Name RETECH, s.r.o. E-mail info@retech.cz

# 1.4. Emergency telephone number

European emergency number: 112

### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

# Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Eye Irrit. 2, H319

### Most serious adverse effects on human health and the environment

Causes serious eye irritation.

## 2.2. Label elements

# **Hazard pictogram**



## Signal word

Warning

## **Hazard statements**

H319 Causes serious eye irritation.

**Precautionary statements** 

P264 Wash exposed parts of the body thoroughly after handling.

P280 Wear eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.



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P337+P313

If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **Chemical characterization**

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 102-60-3 EC: 203-041-4 Registration number: 01-2119552434-41	1,1',1"',1"'-ethylenedinitrilotetrapropan-2 -ol	20-<50	Eye Irrit. 2, H319	
CAS: 64852-22-8	Glyceryl poly(oxypropylene)triamine	1-<3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	

Full text of all classifications and hazard statements is given in the section 16.

## **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

## If inhaled

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical advice.

### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Provide medical treatment if skin irritation persists. Wash contaminated clothing before reuse.

### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

### If swallowed

Provide medical treatment. Do not induce vomiting unless directed to do so by medical personnel. Do not provide anything by mouth if the person is unconscious or if having cramps.

# 4.2. Most important symptoms and effects, both acute and delayed

## If inhaled

not available

### If on skin

not available

# If in eyes

Causes serious eye irritation.

## If swallowed

not available

# 4.3. Indication of any immediate medical attention and special treatment needed

not available



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### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Foam. Carbon dioxide. Powder. Water mist.

#### Unsuitable extinguishing media

not available

## 5.2. Special hazards arising from the substance or mixture

Do not breathe smoke.

#### 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations. EN137 - Respiratory protective devices — Self-contained open-circuit compressed air breathing apparatus with full face mask. EN 469 - Protective clothing for firefighters - Performance requirements for protective clothing for firefighting. EN 659+A1: - Protective gloves for firefighters.

### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Stop leak if safe to do so. Do not get in eyes, on skin, or on clothing. Follow the instructions in the Sections 7 and 8.

### 6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.

### 6.3. Methods and material for containment and cleaning up

Ventilate the room. Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

## 6.4. Reference to other sections

See the Section 7, 8 and 13.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Do not eat, drink or smoke when using this product. Avoid release to the environment.

# 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store away from incompatible materials.

### 7.3. Specific end use(s)

not available

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

### **DNEL**

1,1',1"',1"''-ethylenedinitrilotetrapropan-2-ol				
Workers / consumers	Route of exposure	Value	Effect	
Consumers	Oral	2.5 mg/kg/24h	Chronic effects systemic	
Consumers	Inhalation	8.7 mg/m <sup>3</sup>	Chronic effects systemic	
Consumers	Dermal	2.5 mg/kg/24h	Chronic effects systemic	
Workers	Inhalation	29.4 mg/m <sup>3</sup>	Chronic effects systemic	



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1,1',1"',1"''-ethylenedinitrilotetrapropan-2-ol				
Workers / consumers	Route of exposure	Value	Effect	
Workers	Dermal	4.2 mg/kg/24h	Chronic effects systemic	

#### **PNEC**

1,1',1"',1"'-ethylenedinitrilotetrapropan-2-ol			
Route of exposure	Value		
Freshwater environment	0.085 mg/l		
Marine water	0.0085 mg/l		
Freshwater sediment	0.193 mg/kg		
Sea sediments	0.0193 mg/kg		
Seawater (intermittent release)	1.51 mg/l		
Microorganisms in sewage treatment	70 mg/l		
Soil (agricultural)	0.0183 mg/kg		

## 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Observe any occupational exposure limits for the product or ingredients. Use personal protective equipment for work. Ensure workplace is equipped with a safety shower and eye wash station.

# Eye/face protection

Tightly sealed goggles. EN166 - Personal Eye Protection Standard.

### Skin protection

Hand protection: Protective gloves resistant to the product. Category III. EN ISO 374-1. Material of gloves: Nitrile rubber, NBR. Penetration time of glove material: 240 min. Recommended thickness of the material: 0.5 mm. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: Wear category I professional long-sleeved overalls and safety footwear (see Regulation (EU) 2016/425 and standard EN ISO 20344). Contaminated skin should be washed thoroughly.

### Respiratory protection

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. Filter A. EN143 - Respiratory protective devices - Gas filter(s) and combined filter(s). The protection provided by masks is in any case limited. Use insulating breathing apparatus in case of an accident, fire or high concentration. EN137 - Respiratory protective devices — Self-contained open-circuit compressed air breathing apparatus with full face mask. EN138 - Respiratory protective devices. Specification for fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece assembly. EN 529 - Respiratory protective devices. Recommendations for selection, use, care and maintenance. Guidance document.

### Thermal hazard

Not available.

# **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state liquid

Colour colourless, black, brown



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Odour characteristic

Melting point/freezing point data not available
Boiling point or initial boiling point and boiling range >200 °C

Flammability data not available Lower and upper explosion limit data not available

Flash point 182 °C

Auto-ignition temperature data not available
Decomposition temperature data not available
pH non-soluble (in water)
Kinematic viscosity data not available

Viscosity 3000 mPa.s Solubility in water insoluble

Solubility in fats data not available Partition coefficient n-octanol/water (log value) data not available

Vapour pressure 0.1 Pa

Density and/or relative density

Density 1.0 g/cm<sup>3</sup>

Relative vapour density data not available Particle characteristics data not available

data not available

9.2. Other information

Evaporation rate data not available

Max. VOC content in the product in its ready to use 0 g/l

condition

Product is not selfigniting.

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

# 10.2. Chemical stability

The product is stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Unknown.

# 10.4. Conditions to avoid

No special requirements.

# 10.5. Incompatible materials

not available

## 10.6. Hazardous decomposition products

not available

# **SECTION 11: Toxicological information**

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

No toxicological data is available for the mixture.

## **Acute toxicity**

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Glyceryl poly(oxypropylene)triamine					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	2690 mg/kg		Rat	
Dermal	LD <sub>50</sub>	12500 mg/kg		Rabbit	



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## Skin corrosion/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Serious eye damage/irritation

Causes serious eye irritation. Data for the components of the mixture are not available.

## Respiratory or skin sensitisation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

## Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

## Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

#### Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

## Toxicity for specific target organ - single exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### **Aspiration hazard**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

## 11.2. Information on other hazards

# **Endocrine disrupting properties**

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

# Other information

not available

### **SECTION 12: Ecological information**

## 12.1. Toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

### **Acute toxicity**

Glyceryl poly(oxypropylene)triamine					
Parameter	Value	Exposure time	Species	Environment	
LC50	68 mg/l		Fish		



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# 12.2. Persistence and degradability

No data are available for either the mixture or the components.

## 12.3. Bioaccumulative potential

No data are available for either the mixture or the components.

#### 12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

### 12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

### 12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

## 12.7. Other adverse effects

Inform respective authorities in case of seepage into water course or sewage system.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Dispose unused product as hazardous waste. Perfectly cleaned containers can be submitted for recycling.

## **Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

# Waste type code

08 04 09\* waste adhesives and sealants containing organic solvents or other hazardous substances

## Packaging waste type code

15 01 10\* packaging containing residues of or contaminated by hazardous substances

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

## **SECTION 14: Transport information**

# 14.1. UN number or ID number

not subject to transport regulations

# 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

# 14.4. Packing group

not relevant

# 14.5. Environmental hazards

No

## 14.6. Special precautions for user

Reference in the Sections 4 to 8.

## 14.7. Maritime transport in bulk according to IMO instruments

not relevant



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## **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. 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).

## 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

#### **SECTION 16: Other information**

## A list of standard risk phrases used in the safety data sheet

H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

# Guidelines for safe handling used in the safety data sheet

P264 Wash exposed parts of the body thoroughly after handling.

P280 Wear eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

## Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

## Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods

by road

Aquatic Chronic Hazardous to the aquatic environment (chronic)

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substance and mixtures

EC Identification code for each substance listed in EINECS

EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

EuPCS European Product Categorisation System

Eye Dam. Serious eye damage

Eye Irrit. Eye irritation

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying

Dangerous Chemicals

ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
IMO International Maritime Organization

INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry



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LC50 Lethal concentration of a substance in which it can be expected death of 50%

of the population

LD50 Lethal dose of a substance in which it can be expected death of 50% of the

population

log KowOctanol-water partition coefficientOELOccupational Exposure LimitsPBTPersistent, bioaccumulative and toxic

PMT Persistent, mobile and toxic

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

Skin Irrit. Skin irritation

UN Four-figure identification number of the substance or article taken from the UN

Model Regulations

UVCB Substances of unknown or variable composition, complex reaction products or

biological materials

VOC Volatile organic compounds

vPvB Very persistent and very bioaccumulative

vPvM Very persistent and very mobile

### **Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### **Recommended restrictions of use**

not available

## Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

# The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from Thursday, 14 April 2022. Changes were made in sections 1, 2, 11, 12, 13, 15 and 16.

# **Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.