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Reviewed on:	PM – TPO, FLEX, RIGID, CLEAR – Part A	Version: 1.0

1. Section 1. Identification of the substance/mixture and of the company/undertaking:

- 1.1. Product identifier:
Trade name: **PM – TPO, FLEX, RIGID, CLEAR – Part A**
Product code: **R 34372/74/76/79**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Uses of the mixture: Plastic repair putty.
For professional and industrial use only.
Uses advised against: Not known.
- 1.3. Details of the supplier of the safety data sheet:
Identification of manufacturer/Supplier:
RETECH, s.r.o.
Vackova 1541/4
150 00 Praha 5 - Stodůlky
Telephone number/Fax: +420 327 596 128, +420 327 596 428
E-mail: info@retech.cz
- 1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic
Telephone number: +420 327 596 128 (7.30-16.00 hour)
Toxikologické informační středisko (Toxicology information centre),
Na bojišti 1, 128 08 PRAHA 2, Czech Republic
Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Eye Irrit. 2 H319 Causes serious eye irritation.

- 2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Signal Word: Warning

Hazard Statements:
H319 Causes serious eye irritation.

Precautionary Statements:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P501 Dispose of contents/container in accordance with national regulation.

Labelling of packages where the contents do not exceed 125 ml (section 1.5 of Annex I to CLP):



For more information see the leaflet.

- 2.3. Other hazards:
Results of PBT and vPvB assessment:
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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<p>3. Section 3. Composition/information on ingredients:</p> <p>3.2. Mixtures: Description of the mixture: Mixture of active ingredients</p> <p>Hazardous ingredients:</p> <table border="1"> <tr> <td>CAS: 64852-22-8</td> <td>Glyceryl poly(oxypropylen)triamin Eye Dam. 1, H318, Skin Irrit. 2 H315, Aquatic Chronic 3, H412</td> <td>1 - 3 %</td> </tr> </table> <p>For full text of H-statements: see SECTION 16.</p>			CAS: 64852-22-8	Glyceryl poly(oxypropylen)triamin Eye Dam. 1, H318, Skin Irrit. 2 H315, Aquatic Chronic 3, H412	1 - 3 %
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<p>4. Section 4. First aid measures:</p> <p>4.1. Description of first aid measures: General notes: When in doubt or if symptoms are observed, get medical advice. After inhalation: Move affected person to fresh air and keep at rest. If experiencing respiratory symptoms get medical attention. After skin contact: Take off immediately all contaminated clothing. Wash immediately with plenty of water and soap and rinse thoroughly. Get medical attention if any discomfort continues. Wash contaminated clothing before reuse. After eye contact: Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor. After swallowing: Get medical advice/attention. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person, unless authorised by a doctor.</p> <p>4.2. Most important symptoms and effects, both acute and delayed: See Section 11.</p> <p>4.3. Indication of any immediate medical attention and special treatment needed: No further relevant information available.</p>					
<p>5. Section 5. Fire fighting measures:</p> <p>5.1. Extinguishing media: Suitable extinguishing agents: Carbon dioxide (CO₂), extinguishing powder, foam, water haze. Unsuitable extinguishing agents: No further relevant information available.</p> <p>5.2. Special hazards arising from the substance or mixture: Do not breathe combustion products.</p> <p>5.3. Advice for firefighters: Wear protective clothing, gloves, boots, helmet and self-contained breathing apparatus. Cool endangered receptacles with water spray to prevent product decomposition and the development of substances potentially hazardous for health. Collect contaminated firefighting water separately, must not be discharged into the drains. Dispose contaminated extinguishing water and remains after the fire in accordance with the official regulations.</p>					
<p>6. Section 6. Accidental release measures:</p> <p>6.1. Personal precautions, protective equipment and emergency procedures: Wear protective equipment, see Section 8. Ensure adequate ventilation. Keep away from ignition sources.</p> <p>6.2. Environmental precautions: Avoid leakage into the environment. Do not allow to enter sewage system, surface, ground water and soil. Inform respective authorities in case product reaches water course or sewage system.</p>					

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

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<p>6.3. Methods and material for containment and cleaning up:</p> <p>6.4. Reference to other sections:</p>	<p>Prevent further leakage or spillage. Ensure adequate ventilation. Dispose contaminated material as waste according to Section 13.</p> <p>See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.</p>
<p>7. Section 7. Handling and storage:</p> <p>7.1. Precautions for safe handling:</p> <p>Protective measures:</p> <p>Measures to prevent fire:</p> <p>7.2. Conditions for safe storage, including any incompatibilities:</p> <p>Requirements for storage rooms and vessels:</p> <p>Technical measures and storage conditions:</p> <p>Further information on storage conditions:</p> <p>7.3. Specific end use(s):</p>	<p>Wear protective equipment, see Section 8. Ensure good ventilation/exhaustion at the workplace. Do not eat, drink or smoke when using this product. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.</p> <p>Keep away from heat, sparks and naked flames. Do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level, it may travel considerable distance to an ignition source and flash back. Avoid bunching of electrostatic charges.</p> <p>Store only in the original container. Store in a well-ventilated place.</p> <p>Store in a well-ventilated place.</p> <p>Keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10.</p> <p>No further relevant information available.</p>
<p>8. Section 8. Exposure controls/personal protection:</p> <p>8.1. Control parameters:</p> <p>8.2. Exposure controls:</p> <p>Technical measures to prevent exposure:</p> <p>General protective measures:</p> <p>Personal protection equipment:</p> <p>Respiratory protection:</p> <p>Eye protection:</p>	<p>Components with limit values that require monitoring at the workplace: WEL (United Kingdom): EH40/2005 Contains no substances with occupational exposure limit values. OEL (EU): 2000/39/EG, 2006/15/EG, 2009/161/EG Contains no substances with occupational exposure limit values. Additional information: The lists that were valid during the compilation were as basis.</p> <p>Ensure good ventilation/exhaustion at the workplace. Store away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Wash body with soap and water after removing overalls.</p> <p>In case of inadequate ventilation wear respiratory protection. Respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Wear a mask with an B or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use. The protection provided by masks is in any case limited. In case of intensive or longer exposure or in case of emergency wear self-contained, open-circuit compressed air breathing apparatus.</p> <p>Tightly sealed goggles.</p>

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Hand protection:	Protective gloves Category I Recommend material of gloves: latex, PVC or equivalent. The final selection of the glove material must be carried out on the basis of penetration times, permeation rates and degradation. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Gloves' limit depends on the duration of exposure.
Skin protection:	Wear category I professional long-sleeved overalls and safety footwear.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form:	Liquid
Colour:	According to specifications – black/colourless/brown
Odour:	Characteristic
Odour threshold:	Not determined.
Value pH at 20 °C:	Not determined.
Melting point/freezing point:	Not determined.
Initial boiling point/boiling range:	> 200 °C
Flash point:	182 °C
Evaporation rate:	Not determined.
Flammability (solid, gas):	Not determined.
Explosive properties:	Not determined.
Explosive limits:	
– lower:	Not determined.
– upper:	Not determined.
Vapour pressure at 20°C:	1 Pa
Vapour density at 20 °C:	Not determined.
Density at 20°C:	1.020 g/cm ³
Relative density:	Not determined.
Solubility in/miscibility:	Insoluble in water.
Partition coefficient (n-octanol/water):	Not determined.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-ignition temperature:	Not determined.
Viscosity:	860 mPa.s
Oxidising properties:	Not determined.

9.2. Other information:

VOC:	0 g/l
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10. Section 10. Stability and reactivity:

10.1. Reactivity:	Hazardous reactions will not occur under recommended conditions.
10.2. Chemical stability:	Stable under normal storage conditions and when used as recommended.
10.3. Possibility of hazardous reactions:	Hazardous reactions will not occur under normal storage conditions and when used as recommended.
10.4. Conditions to avoid:	No special precautions. The usual precautionary measures should be adhered to general rules for handling chemicals.
10.5. Incompatible materials:	No further relevant information available.
10.6. Hazardous decomposition products:	No further relevant information available.

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11. Section 11. Toxicological information:

11.1. Information on toxicological effects:

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Acute toxicity: Based on available data, the classification criteria are not met.

64852-22-8 Glyceryl poly(oxypropylen)triamin

Oral	LD50	Rat	2690 mg/kg
Dermal	LD50	Rabbit	12500 mg/kg

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT - single exposure:

Based on available data, the classification criteria are not met.

STOT - repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Other information:

Acute effects:

Stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Vapour inhalation may moderately irritate the upper respiratory tract.

Contact with skin may cause slight irritation.

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

12. Section 12. Ecological information:

12.1. Toxicity:

Aquatic toxicity:

64852-22-8 Glyceryl poly(oxypropylen)triamin

Fish:	LC50	68 mg/l
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12.2. Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil: No further relevant information available.

Additional ecological information:

General notes:

Avoid the leakage.

Do not contaminate soil, sewers and waterways.

Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.5. Results of PBT and vPvB assessment:

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects:

No further relevant information available.

13. Section 13. Disposal considerations:

13.1. Waste treatment methods:

Product disposal:

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Do not contaminate soil, sewers and waterways.

European Waste Catalogue: 08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

(*hazardous waste)

Packagings disposal:

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

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European Waste Catalogue: 15 01 10* packaging containing residues of or contaminated by hazardous substances
(*hazardous waste)

Other disposal recommendations: Disposal must be made according to official regulations. The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

14. Section 14. Transport information:

- 14.1. UN number:
ADR/RID, IMDG, IATA Not classified as hazardous for transport.
- 14.2. UN proper shipping name:
ADR/RID Not applicable.
IMDG Not applicable.
IATA Not applicable.
- 14.3. Transport hazard class(es):
ADR/RID Not applicable.
IMDG Not applicable.
IATA Not applicable.
- 14.4. Packing group:
ADR/RID, IMDG, IATA Not applicable.
- 14.5. Environmental hazards: Not applicable.
- 14.6. Special precautions for user: Not applicable.
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:
Not applicable.

15. Section 15. Regulatory information:

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

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)

Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended
Commission Decision 2000/532/EC establishing a list of wastes, as amended

Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values

Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values

Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

- 15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Section 16. Other information:

Relevant H-statements (Section 3):

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Median concentration lethal to 50 % of a test population

LD50: Median dose lethal to 50 % of a test population

PBT: Persistent, Bioaccumulative, Toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

VOC: Volatile Organic Compounds

vPvB: Very Persistent, Very Bioaccumulative

Aquatic Chronic 3: Hazardous to the aquatic environment, category 3

Eye Dam. 1: Serious eye damage, category 1

Skin Irrit. 2: Skin irritation, category 2

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Compared to the last version the data has been changed.**