

Prepared in accordance with Annex II of REACH Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and regulation (EC) 453/2010 with later changes

Vi-Pro® EPDM Paste Adhesive 903

Version: 1.0/EN Date: 2.01.2020

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product name: Vi-Pro EPDM Paste Adhesive 903

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

No further relevant information available.

1.3 Details of the supplier of the safety data sheet:

Name	Proventuss Polska Sp. z o.o.
Address	Flisa 4, 02-247 Warszawa
Phone of person responsible	+48 22 122 85 49
e-mail of person responsible	reach@vi-pro.eu

1.4 Emergency telephone number:

Emergency number: 112

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Aquatic Chronic 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

The product is classified and labelled according to the CLP regulation.



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Hazard pictograms



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/ protective clothing

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

Remove contact lenses, if present and easy to do. Continue

rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell. P402+P404 Store in a dry place. Store in a closed container.

www.vi-pro.eu

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

Additional information:

Contains zinc bis(dibutyldithiocarbamate). May produce an allergic reaction. Restricted to professional users.

2.3 Other hazards:

Results of PBT and vPvB assessment Not applicable.

PBT: Not applicable. **vPvB:** Not applicable.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:

ethyl acetateCAS: 141-78-6
EINECS: 205-500-4

Reg.nr.: 01-2119475103-46

Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336

10-<20% **cyclohexane** CAS: 110-82-7 EINECS: 203-806-2

Reg.nr.: 01-2119463273-41

Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic

Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336

5-<10%

Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]-and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide,

N,N'-1,2-ethanediylbis-

EC number: 907-495-0 Reg.nr.: 01-2119545465-35 Aquatic Chronic 3, H412 1-<2.5%

zinc bis(dibutyldithiocarbamate)

CAS: 136-23-2 EINECS: 205-232-8

Reg.nr.: 01-2119535161-51

Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye

Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335

≤1%

Additional information: For the wording of the listed hazard phrases refer to section 16.



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4. FIRST - AID MEASURES

4.1 Description of first aid measures

General information: Personal protection for the First Aider.

After inhalation: Supply fresh air; consult doctor in case of complaints. **After skin contact:** Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist,

consult a doctor. **After swallowing:**

Rinse mouth with water.

If symptoms persist consult doctor.

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

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE - FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Carbon monoxide (CO)

5.3 Advice for firefighters:

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.



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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away

6.2 Environmental precautions

Prevent seepage into sewage system, work pits and cellars.

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

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special measures required.

No special precautions are necessary if used correctly.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

As of July 2003, organizations in the EU must follow the directives to protect employees from explosion risk in areas with an explosive atmosphere.

There are two ATEX directives (one for the manufacturer and one for the user of the equipment):

• the ATEX 95 equipment directive 94/9/EC, Equipment and protective systems intended for use in potentially explosive atmospheres;



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• the ATEX 137 workplace directive 99/92/EC, Minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well-sealed receptacles.

7.3 Specific end use(s)

No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

141-78-6 ethyl acetate

WEL Short-term value: 1468 mg/m^3 , 400 ppm

Long-term value: 734 mg/m³, 200 ppm

110-82-7 cyclohexane

WEL Short-term value: 1050 mg/m³, 300 ppm

Long-term value: 350 mg/m³, 100 ppm

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages, and feed.

Immediately remove all soiled and contaminated clothing



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Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not carry product impregnated cleaning cloths in trouser pockets.

Respiratory protection:

Not required.

Filter A2P3(EN141)

Protection of hands:



Protective gloves

Nitrile rubber gloves (EN374, EN388:4101).

Permeation EN374-3: 2003 (minutes)> 480 minutes

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. While wearing protective gloves cotton single use under gloves are recommendable. However, these under gloves must be discarded after each use to avoid potential exposure to absorbed product.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable: Nitril rubber, NBR For contact of maximum 15 minutes, gloves made of the following materials are suitable: Nitrile rubber, NBR



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Eye protection:



Tightly sealed goggles

Safety glasses (EN166)

Body protection: Protective work clothing (EN 340, 463, 468, 943-1, 943-2)

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:
Colour:
Dark grey
Odour:
Characteristic
Odour threshold:
Not determined.
PH-value:
Not applicable.

Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 77 °C Flash point: -8 °C

Ignition temperature: Not determined. **Decomposition temperature:** Not determined.

Auto-ignition temperature: Product is not self-igniting.

Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

Explosion limits:

Lower: 2.1 Vol %
Upper: 11.5 Vol %
Vapour pressure at 20 °C: 97 hPa
Density at 20 °C: 1.2 g/cm³

Vapour density Not determined.



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Evaporation rate Not determined.

Solubility in / Miscibility with

water(20°C): Not miscible or difficult to mix.

Partition coefficient: n-octanol/water: Not determined.

Viscosity:

Dynamic at 20 °C: 4,500,000 mPas

Solvent content:

 Organic solvents:
 22.0 %

 VOC (EG)
 264.0 g/l

 VOC% (EC)
 22.00 %

 Solids content:
 76.5 %

9.2 Other information

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products



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No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The product has not been tested. The statements underneath have been derived from the properties of the individual components.

Acute toxicity:

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

LD/LC50 values relevant for classification:

141-78-6 ethyl acetate

Oral	LD50	5,620 mg/kg (Rabbit)
Inhalative	LC50, 4h	1,600 mg/I (Rat)

110-82-7 cyclohexane

Oral LD50 >5,000 mg/kg (Rat)

Dermal LD50 >2,000 mg/kg (Rabbit)

136-23-2 zinc bis(dibutyldithiocarbamate)

Oral LD50 >2,000 mg/kg (Rat)

Primary irritant effect:

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

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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.



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12. ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity:

141-78-6 ethyl acetate

LC50, 96h >230 mg/l (Fish)

EC50, 24h >164 mg/l (Daphnia magna)

110-82-7 cyclohexane

LC50, 96h 4.53 mg/l (Fathered minnow, Pimephales promelas)

EC50, 48h 0.9 mg/l (Daphnia magna)

EC50, 72h 3.4 mg/l (Algae)

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.

Ecotoxical effects: Remark: Toxic for fish

Other information:

Ecotoxicological data have not been determined specifically for this product. Information given is based on knowledge of the components and the ecotoxicology of similar products.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

12.5. Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB**: Not applicable.



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12.6. Other adverse effects

No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue Please contact your waste disposer for the exact waste code.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations. For the packaging:

14. TRANSPORT INFORMATION

14.1. UN number

ADR, IMDG, IATA UN1133

14.2. UN proper shipping name

ADR 1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS

IMDG ADHESIVES (CYCLOHEXANE, zinc

bis(dibutyldithiocarbamate)), MARINE POLLUTANT

IATA ADHESIVES

14.3. Transport hazard class(es)

ADR



Class 3 (F1) Flammable liquids.

Label 3



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IMDG



Class 3 (F1) Flammable liquids.

Label 3

IATA



Class 3 (F1) Flammable liquids.

Label 3

14.4. Packing group

ADR, IMDG, IATA

14.5. Environmental hazards Product contains environmentally hazardous

substances: cyclohexane

Marine pollutant: Yes

Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

14.6. Special precautions for user Warning: Flammable liquids.

Danger code (Kemler):33EMS Number:F-E, S-D

Stowage Category A



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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Transport category 3
Tunnel restriction code D/E

Remarks: The product is, based on the viscosi ty, classified in

accordance with ADR, Part 2, Chapter 2.2, Paragraph

2.2.3.1.4

IMDG

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml The product is, based on the viscosity, classified in

Remarks: The product is, based on the viscosity, classified in

accordance with IMDG, Part 2, Chapter 2.3, Paragraph

2.3.2.

UN "Model Regulation": UN 1133 ADHESIVES, 3, III, ENVIRONMENTALLY

HAZARDOUS

15. REGULATORY INFORMATION

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t



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REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 57

National regulations:

Class NK Share in % 20-<40

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

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

ICAO: International Civil Aviation Organisation

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)



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LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

 $\label{lem:condition} \textbf{Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category \, \textbf{1}}$

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

Sources

Classification corresponds to the current lists of the EEC, is supplemented with data from publications and data from the company.