

## Material Safety Data Sheet

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 Contact Adhesive 904

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 Contact Adhesive 904

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

No further relevant information available.

Application of the substance / the mixture Adhesives

### 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.

Skin Irritation, Category 2

H315: Causes skin irritation.

Eye irritation, Category 2

H319: Causes serious eye irritation.

STOT SE, Category 3

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - single exposure Cat. 3

Aquatic Chronic, Category 2

H411: Toxic to aquatic life with long lasting effects.

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#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

The product is classified and labelled according to the Globally Harmonised System (GHS).  
The product is classified and labelled according to the CLP regulation.

##### Hazard pictograms



GHS02

GHS07

GHS09

**Signal word** Danger

##### Hazard-determining components of labelling:

Naphtha (petroleum), hydrotreated light

##### Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

##### Precautionary statements

P210

Keep away from open flames. - No smoking.

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves / eye 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.

P312

Call a POISON CENTER/doctor if you feel unwell.

P402+P404

Store in a dry place. Store in a closed container.

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.

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#### 2.3 Other hazards:

**Results of PBT and vPvB assessment** Not applicable.

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization:** Mixtures

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

**Dangerous components:**

**Naphtha (petroleum), hydrotreated light**

CAS: 64742-49-0

EINECS: 265-151-9

Reg.nr.: 01-2119475133-43

Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411;

Skin Irrit. 2, H315; STOT SE 3, H336

20-<40%

**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

10-<20%

**ethyl acetate**

CAS: 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%

**zinc bis(dibutyldithiocarbamate)**

CAS: 136-23-2

EINECS: 205-232-8

Reg.nr.: 01-2119535161-51

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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:**

"Naphtha" classified and marked in accordance with EU Directives RL 67/548/EWG, Note P.

[contents benzene (CAS:71-43-2) <0,1% by weight]

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

## 4. FIRST - AID MEASURES

### 4.1 Description of first aid measures

**General information:**

Personal protection for the First Aider.

Remove contaminated clothing. If symptoms persist or in cases of doubt seek medical advice.

**After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

If the casualty is not breathing: Perform mouth-to-mouth or mouth-to-nose resuscitation, notify emergency physician immediately

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:**

Rinse opened eye for several minutes under running water.

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

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## 5. FIRE - FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media:** CO<sub>2</sub>, extinguishing powder, or water spray. Fight larger fires with water spray or foam.

**Unsuitable extinguishing media:** 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.

## 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.

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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

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

#### 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,
- 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

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#### Ingredients with limit values that require monitoring at the workplace:

##### 110-82-7 cyclohexane

WEL Short-term value: 1050 mg/m<sup>3</sup>, 300 ppm

Long-term value: 350 mg/m<sup>3</sup>, 100 ppm

##### 141-78-6 ethyl acetate

WEL Short-term value: 1468 mg/m<sup>3</sup>, 400 ppm

Long-term value: 734 mg/m<sup>3</sup>, 200 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:

Wear high-quality protective equipment during operations such as grinding, drilling and/or sawing

Dust mask FFP3 (Filtering Facepiece Partikel) (EN 149: 2001)

Gloves (grinding) (EN388 (4.1.3.1))

Safety glasses (EN166-168, 170)

Hearing protection (EN352-2)

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

Store protective clothing separately.

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

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:

Use suitable respiratory protective device in case of insufficient ventilation.

Oxygen content of the inhalation air must be sufficient i.e. > 17%

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AXP3(EN371)

#### Protection of hands:

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#### 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 through 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

#### 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



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#### 9.1 Information on basic physical and chemical properties

##### General Information

##### Appearance:

Form:	Fluid
Colour:	Black
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	60 °C
Flash point:	-18 °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:	1.3 Vol %
Upper:	11.5 Vol %
Vapour pressure at 20 °C:	175 hPa
Density at 20 °C:	0.86409 g/cm <sup>3</sup>
Vapour density	Not determined.
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:	2,500 mPas
ISO DIN Cup 6 mm (23°C)	168 sec
Solvent content:	
Organic solvents:	56.7 %
VOC (EG)	490.1 g/l
VOC% (EC)	56.72 %
Solids content:	43.3 %

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#### 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

No hazardous decomposition products are 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:**

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

#### LD/LC50 values relevant for classification:

##### 110-82-7 cyclohexane

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)

##### 141-78-6 ethyl acetate

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

##### 136-23-2 zinc bis(dibutyldithiocarbamate)

Oral	LD50	>2,000 mg/kg (Rat)
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#### Primary irritant effect:

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/irritation

Causes serious eye irritation.

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

#### CMR effects (carcinogenicity, 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

May cause drowsiness or dizziness.

**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.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Aquatic toxicity:

##### 110-82-7 cyclohexane

LC50, 96h	4.53 mg/l (Fatheted minnow, Pimephales promelas)
EC50, 48h	0.9 mg/l (Daphnia magna)
EC50, 72h	3.4 mg/l (Algae)

##### 141-78-6 ethyl acetate

LC50, 96h	>230 mg/l (Fish)
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EC50, 24h >164 mg/l (Daphnia magna)

#### 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.

##### Ecotoxicological 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 2 (German Regulation) (Self-assessment): hazardous for water

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

Danger to drinking water if even small quantities leak into the ground.

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.

#### 12.6. Other adverse effects

No further relevant information available.

## 13. DISPOSAL CONSIDERATIONS

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#### 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

#### 14. TRANSPORT INFORMATION

##### 14.1. UN number

ADR, IMDG, IATA UN1133

##### 14.2. UN proper shipping name

ADR 1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS  
IMDG ADHESIVES (Naphtha (petroleum), hydrotreated light,  
CYCLOHEXANE), MARINE POLLUTANT  
IATA ADHESIVES

##### 14.3. Transport hazard class(es)

ADR



Class 3 (F1) Flammable liquids.  
Label 3

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#### IMDG



Class  
Label

3 Flammable liquids.  
3

#### IATA



Class  
Label

3 Flammable liquids.  
3

#### 14.4. Packing group

ADR, IMDG, IATA

III

#### 14.5. Environmental hazards

Product contains environmentally hazardous substances: cyclohexane, Naphtha (petroleum), hydrotreated light

Marine pollutant:

Yes

Special marking (ADR):

Symbol (fish and tree)

Symbol (fish and tree)

#### 14.6. Special precautions for user

Warning: Flammable liquids.

Danger code (Kemler):

33

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EMS Number: F-E, S-D  
Stowage Category A

#### 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)  
Excepted quantities (EQ)

5L  
Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml  
3  
D/E  
The product is, based on the viscosity, classified in accordance with ADR, Part 2, Chapter 2.2, Paragraph 2.2.3.1.4

###### Transport category

###### Tunnel restriction code

###### Remarks:

###### IMDG

Limited quantities (LQ)  
Excepted quantities (EQ)

5L  
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 accordance with IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.

###### Remarks:

###### 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

Not applicable

#### 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

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

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

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

**National regulations:**

**Class** NK

**Share in %** 40-<60

**Water hazard class:** Water hazard class 2 (Self-assessment): 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.

H411 Toxic to aquatic life with long lasting effects.

#### Abbreviations and acronyms:

RID: Règlement 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



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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)

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

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

#### Sources

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