

# SAFETY DATA SHEET

according to Regulation (EU) 2015/830

Page 1/8

**PRO-0495**

Revision 4  
Revision date 2019-02-18

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

### 1.1. Product identifier

Product name **PRO-0495**

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

Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC1] Adhesives, sealants;

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

Company **PANTHER TOOLS AND PRODUCTS LTD**  
Address **UNIT D, VANGUARD BUILDINGS  
BRITANNIA ROAD  
CHESTERFIELD  
S40 2TZ  
UK**

Web **WWW.PANTHER-PRO.CO.UK**

Telephone **Tel: +44 1246 559337**  
Email **office@panther-pro.co.uk**

### 1.4. Emergency telephone number

Emergency telephone number **+44 1246 559337**  
Company **PANTHER TOOLS AND PRODUCTS LTD**

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008 EUH202; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;

### 2.2. Label elements

Hazard pictograms



Signal Word

Warning

Hazard Statement

EUH202 - Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
STOT SE 3: H335 - May cause respiratory irritation.

## PRO-0495

Revision 4

Revision date 2019-02-18

## 2.2. Label elements

|  |  |
|--|--|
| <b>Precautionary Statement: Prevention</b> | P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 - Wash thoroughly after handling.<br>P271 - Use only outdoors or in a well-ventilated area.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection.  |
| <b>Precautionary Statement: Response</b>   | P302+P352 - IF ON SKIN: Wash with plenty of water/ .<br>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P312 - Call a POISON CENTER/doctor/ /if you feel unwell.<br>P321 - Specific treatment (see on this label).<br>P332+P313 - If skin irritation occurs: Get medical advice/attention.<br>P337+P313 - If eye irritation persists: Get medical advice/attention. |
| <b>Precautionary Statement: Storage</b>    | P403+P233 - Store in a well-ventilated place. Keep container tightly closed.<br>P405 - Store locked up.  |
| <b>Precautionary Statement: Disposal</b>   | P501 - Dispose of contents/container to to hazardous waste collection point. Refer to section 13.1 for waste treatment methods.  |
| <b>SUPPLEMENTAL HAZARD INFORMATION</b>     | EUH202 - Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.   |

## 2.3. Other hazards

|                      |   |
|----------------------|---|
| <b>Other hazards</b> | This product does not contain any substances classified as PBT or vPvB. |
|----------------------|---|

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

| Chemical Name                               | Index No.    | CAS No.   | EC No.    | REACH Registration Number | Conc. (%w/w) | Classification  |
|---|--------------|-----------|-----------|---------------------------|--------------|---|
| Ethyl-2-cyanoacrylate (Ethyl cyanoacrylate) | 607-236-00-9 | 7085-85-0 | 230-391-5 | 01-2119527766-29          | 90 - 100%    | Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315;                       |
| Tetrahydrofuran                             | 603-025-00-0 | 109-99-9  | 203-726-8 |                           | 0 - 0.5%     | EUH019; Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H335; Carc. 2: H351; |

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Move the exposed person to fresh air. Remove casualty from exposure ensuring one's own safety whilst doing so. Seek medical attention if irritation or symptoms persist.  |
| <b>Eye contact</b>  | Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.   |
| <b>Skin contact</b> | Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.   |
| <b>Ingestion</b>    | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Keep the affected person warm and at rest. Rinse mouth thoroughly. Drink 1 to 2 glasses of water. Seek medical attention. |

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

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. |
| <b>Eye contact</b>  | Irritating to eyes.   |
| <b>Skin contact</b> | Irritating to skin. Eczema. Itching.  |
| <b>Ingestion</b>    | Ingestion may cause nausea and vomiting.  |

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

|  |   |
|--|---|
|  | Remove the affected person from the source of contamination immediately. Treat symptomatically. |
|--|---|

## SECTION 5: Firefighting measures

## PRO-0495

Revision 4  
Revision date 2019-02-18

## 5.1. Extinguishing media

Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical.

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

Burning produces irritating, toxic and obnoxious fumes.

## 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Wear: Protective equipment. Self-contained breathing apparatus. Cool fire exposed containers with waterspray.

**SECTION 6: Accidental release measures**

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

Ensure adequate ventilation of the working area. Wear suitable protective equipment.

## 6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

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

Wear suitable protective clothing, gloves and eye/face protection. Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Dispose of this material and its container to hazardous or special waste collection point. Wash hands after handling the product.

## 6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

**SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Wear suitable protective clothing and gloves. Wear eye/face protection. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing. Do not eat, drink or smoke in areas where this product is used or stored. Wash hands after handling the product.

## 7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Keep away from food, drink and animal feedingstuffs. Keep away from heat.

## 7.3. Specific end use(s)

Refer to Section 1.2.

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

## 8.1. Control parameters

## 8.1.1. Exposure Limit Values



## PRO-0495

Revision 4  
Revision date 2019-02-18

## 8.1.1. Exposure Limit Values

|   |  |   |
|---|--|---|
| 1,4-Dihydroxybenzene (Hydroquinone)         | WEL 8-hr limit ppm: -<br>WEL 15 min limit ppm: -<br>WEL 8-hr limit mg/m3 total inhalable dust: -<br>WEL 8-hr limit mg/m3 total respirable dust: -    | WEL 8-hr limit mg/m3: 0.5<br>WEL 15 min limit mg/m3: -<br>WEL 15 min limit mg/m3 total inhalable dust: -<br>WEL 15 min limit mg/m3 total respirable dust: -   |
| Ethyl-2-cyanoacrylate (Ethyl cyanoacrylate) | WEL 8-hr limit ppm: -<br>WEL 15 min limit ppm: 0.3<br>WEL 8-hr limit mg/m3 total inhalable dust: -<br>WEL 8-hr limit mg/m3 total respirable dust: -  | WEL 8-hr limit mg/m3: -<br>WEL 15 min limit mg/m3: 1.5<br>WEL 15 min limit mg/m3 total inhalable dust: -<br>WEL 15 min limit mg/m3 total respirable dust: -   |
| Tetrahydrofuran                             | WEL 8-hr limit ppm: 50<br>WEL 15 min limit ppm: 100<br>WEL 8-hr limit mg/m3 total inhalable dust: -<br>WEL 8-hr limit mg/m3 total respirable dust: - | WEL 8-hr limit mg/m3: 150<br>WEL 15 min limit mg/m3: 300<br>WEL 15 min limit mg/m3 total inhalable dust: -<br>WEL 15 min limit mg/m3 total respirable dust: - |

## 8.2. Exposure controls

|   |   |
|---|---|
|   |     |
| 8.2.1. Appropriate engineering controls | Ensure adequate ventilation of the working area. Eye wash bottle with water.  |
| 8.2.2. Individual protection measures   | Wear chemical protective clothing.  |
| Eye / face protection                   | Approved safety goggles. In case of splashing, wear: Face shield.   |
| Skin protection - Handprotection        | Wear suitable gloves. Chemical resistant gloves (PVC). Polyvinyl chloride - PVC (Thickness 0.2mm for periods of 1 - 4 hours. Consult with glove manufacturer for breakthrough times.).  |
| Respiratory protection                  | In case of insufficient ventilation, wear suitable respiratory equipment. For short periods of work a combination of charcoal filter and particulate filter is suitable. Suitable half mask respirator with filter P2 (EN 143). |
| 8.2.3. Environmental exposure controls  | Not normally required.  |
| Occupational exposure controls          | Wash hands at the end of each shift and before eating, smoking and using the toilet. Wash skin promptly if skin becomes contaminated. Promptly remove any clothing that has become contaminated.                                |

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

## PRO-0495

Revision 4

Revision date 2019-02-18

## 9.1. Information on basic physical and chemical properties

|                                  |                                     |
|----------------------------------|-------------------------------------|
| <b>Appearance</b>                | Liquid                              |
| <b>Colour</b>                    | Clear                               |
| <b>Odour</b>                     | Strong                              |
| <b>Odour threshold</b>           | No data available                   |
| <b>Melting point</b>             | No data available                   |
| <b>Freezing Point</b>            | No data available                   |
| <b>Initial boiling point</b>     | > 149 °C                            |
| <b>Flash point</b>               | 80 °C                               |
| <b>Evaporation rate</b>          | No data available                   |
| <b>Flammability (solid, gas)</b> | No data available                   |
| <b>Upper Explosive Limit</b>     | No data available                   |
| <b>Lower Explosive Limit</b>     | No data available                   |
| <b>Vapour pressure</b>           | < 70000 Pa                          |
| <b>Vapour density</b>            | No data available                   |
| <b>Relative density</b>          | < 20 (H <sub>2</sub> O = 1 @ 20 °C) |
| <b>Water solubility</b>          | No data available                   |
| <b>Fat Solubility</b>            | No data available                   |
| <b>Soluble in</b>                | ➔                                   |
| <b>Partition coefficient</b>     | No data available                   |
| <b>Autoignition temperature</b>  | 450 °C                              |
| <b>Viscosity</b>                 | = 50 mPas (Cone & Plate)            |
| <b>Explosive properties</b>      | No data available                   |
| <b>Oxidising properties</b>      | No data available                   |
| <b>Solubility</b>                | No data available                   |

## 9.2. Other information

|   |                          |
|---|--------------------------|
| <b>Conductivity</b>                     | No data available        |
| <b>Surface tension</b>                  | No data available        |
| <b>Specific gravity</b>                 | = 1.05 g/cm <sup>3</sup> |
| <b>Softening point</b>                  | No data available        |
| <b>Pour point</b>                       | No data available        |
| <b>Gas group</b>                        | No data available        |
| <b>Benzene Content</b>                  | Not relevant             |
| <b>Lead content</b>                     | Not relevant             |
| <b>VOC (Volatile organic compounds)</b> | < 20 g/l                 |

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

Avoid contact with: Copper and its alloys. Peroxides. Strong acids.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

If product is contaminated and becomes unstable the product may polymerize and produce an exothermic reaction.

## 10.4. Conditions to avoid

Heat. Keep only in the original container at a temperature not exceeding 15 °C.

## 10.5. Incompatible materials

Acids. Copper and its alloys. Strong oxidising agents.

## PRO-0495

Revision 4

Revision date 2019-02-18

## 10.6. Hazardous decomposition products

|  |   |
|--|---|
|  | Burning produces irritating, toxic and obnoxious fumes. Stable under normal conditions. |
|--|---|

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | CAUSES SKIN IRRITATION.                     |
| Serious eye damage/irritation     | CAUSES EYE IRRITATION.                      |
| Respiratory or skin sensitisation | H335 - May cause respiratory irritation.    |
| Germ cell mutagenicity            | No data is available on this product.       |
| Carcinogenicity                   | No data is available on this product.       |
| Reproductive toxicity             | No data is available on this product.       |
| STOT-single exposure              | May cause irritation to respiratory system. |
| STOT-repeated exposure            | No data is available on this product.       |
| Aspiration hazard                 | No Significant Hazard.                      |

## 11.1.4. Toxicological Information

|                       |                           |                                |
|-----------------------|---------------------------|--------------------------------|
| C95 Cyanoacrylate     | Oral Rat LD50: >5000mg/kg | Dermal Rabbit LD50: >2000mg/kg |
| Ethyl-2-cyanoacrylate | Oral Rat LD50: >5ml/kg    |                                |

## 11.1.7. Information on likely routes of exposure

|  |  |
|--|--|
|  | Skin contact. Eye contact. Inhalation. |
|--|--|

## SECTION 12: Ecological information

## 12.2. Persistence and degradability

|  |                    |
|--|--------------------|
|  | No data available. |
|--|--------------------|

## 12.3. Bioaccumulative potential

|  |                         |
|--|-------------------------|
|  | Does not bioaccumulate. |
|--|-------------------------|

## Partition coefficient

|  |                                     |
|--|-------------------------------------|
|  | C95 Cyanoacrylate No data available |
|--|-------------------------------------|

## 12.4. Mobility in soil

|  |                      |
|--|----------------------|
|  | Immiscible in water. |
|--|----------------------|

## 12.5. Results of PBT and vPvB assessment

|  |  |
|--|--|
|  | The product does not contain any substances classified as PBT or vPvB. |
|--|--|

## 12.6. Other adverse effects

|  |       |
|--|-------|
|  | None. |
|--|-------|

## SECTION 13: Disposal considerations

## General information

|  |  |
|--|--|
|  | Wear protective gloves/protective clothing/eye protection/face protection. Dispose of in compliance with all local and national regulations. |
|--|--|

## Disposal methods

|  |   |
|--|---|
|  | For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Dispose of this material and its container to hazardous or special waste collection point. |
|--|---|

## Disposal of packaging

## PRO-0495

Revision 4  
Revision date 2019-02-18

## Disposal of packaging

Empty containers can be sent for disposal or recycling.

## SECTION 14: Transport information

## 14.1. UN number

The product is not classified as dangerous for carriage.

## 14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

## 14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

## 14.4. Packing group

The product is not classified as dangerous for carriage.

## 14.5. Environmental hazards

The product is not classified as dangerous for carriage.

## 14.6. Special precautions for user

The product is not classified as dangerous for carriage.

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

The product is not classified as dangerous for carriage.

## 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 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a 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. REGULATION (EC) No 1272/2008 of 16th December 2008 on Classification, Labelling and Packaging of substances and mixtures. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

## 15.2. Chemical safety assessment

No Chemical safety assessment has been conducted on this product.

## SECTION 16: Other information

## Other information

|  |   |
|--|---|
| Revision                               | This document differs from the previous version in the following areas:<br>12 - 12.1. Toxicity.<br>14 - ADR/RID.<br>14 - IMDG.<br>14 - IATA.  |
| Acronyms                               | BCF: Bioconcentration factor. Biochemical oxygen demand. COD: Chemical oxygen demand. DMEL: Derived minimal effect level. DNEL: Derived no-effect level. PNEC: Predicted no-effect concentration.   |
| Data sources                           | European Chemical Agency.(ECHA).  |
| Text of Hazard Statements in Section 3 | Skin Irrit. 2: H315 - Causes skin irritation.<br>Eye Irrit. 2: H319 - Causes serious eye irritation.<br>STOT SE 3: H335 - May cause respiratory irritation.<br>EUH019 - May form explosive peroxides.<br>Flam. Liq. 2: H225 - Highly flammable liquid and vapour. |

**PRO-0495**

Revision 4

Revision date 2019-02-18

**Other information**

|  |   |
|--|---|
|  | Carc. 2: H351 - Suspected of causing cancer . |
|--|---|

**Further information**

|  |  |
|--|--|
|  | The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. |
|--|--|