

TRADE GRADE PRODUCTS LTD

MATERIAL SAFETY DATA SHEET

1. Identification of the substance / preparation and company.

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| Product name | Tradegrip PVC |
| Supplier | Trade Grade Products Limited |
| Address | 2 Thorne Way Woolsbridge Industrial Park Three Legged Cross Wimborne Dorset BH21 6FB |
| Emergency telephone number | 01202 820177 |

2. Composition / Information on Ingredients.

| <u>Material description</u> | <u>CAS No.</u> | <u>% Content</u> | <u>Health (class)</u> | <u>Risk (R No.)</u> |
|-----------------------------|----------------|------------------|-----------------------|----------------------|
| Acetone | 67-64-1 | 30 – 34 | F, Xi | R11, R36 R66, R67 |
| Butanone | 78-93-3 | 30 – 34 | F, Xi | R11, R36 R66, R67 |
| Toluene | 108-88-3 | 15 – 20 | F, Xn | R11, R20 |

3. Hazards Identification.

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| Skin contact | Irritating to skin. May cause sensitisation by skin contact. |
| Eye contact | Vapours may irritate eyes. |
| Ingestion | Harmful by ingestion. |
| Inhalation | Harmful by inhalation. Toluene is harmful by inhalation and irritating to the upper respiratory tract. Exposure to levels in excess of OEL may result in dizziness, loss of coordination or even unconsciousness. |
| Environmental | Highly flammable. |

4. First Aid Measures.

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| Inhalation | If vapour has been inhaled in high concentrations move the affected person to fresh air, keep them warm and allow to rest. If there is difficulty breathing medical attention should be sought immediately. |
| Skin | Toluene vapour and liquid are moderate skin irritants. Prolonged or repeated contact can give rise to severe irritation or cause dermatitis. Remove contaminated clothing immediately. Rinse affected skin with plenty of soap and water, using a mild cleaning agent. If irritation persists obtain medical attention. |
| Eye | Toluene vapour can irritate the eyes and splashed liquid can cause irritation and transient, mild conjunctivitis. Immediately flush eyes with running water for at least 15 minutes without interruption. Obtain medical attention. |
| Ingestion | DO NOT INDUCE VOMITING. The main hazard of swallowing Toluene or Acetone is aspiration into the lungs and consequent chemical pneumonia. Obtain medical attention urgently. |

5. Fire-fighting Measures.

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| Extinguishing media | Fire fight with water spray, foam, dry chemical powder or carbon dioxide. Do not use water jets. |
| Explosion hazard | Risk of drums bursting in a fire, causing explosion. Keep drums cool by spraying with water. |
| Special exposure hazards | Preparation contains halogenated polymers which may give rise to toxic and corrosive combustion products such as hydrochloric acid. Other toxic products evolved will be carbon monoxide, carbon dioxide and nitrogen compounds including hydrogen cyanide. |
| Personal protection | Wear self-contained breathing apparatus. |

6. Accidental Release Measures.

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| Fire hazard | Remove all sources of ignition. DO NOT SMOKE. |
| Personal protection | Avoid contact with skin and eyes and avoid breathing the vapours. Wear goggles, gloves and respiratory protection where there is a risk of exposure to high vapour concentrations. |
| Environmental precautions | Prevent the liquid entering drains, sewers or waterways. Prevent the liquid from entering basements or work-pits where vapours may create an explosive atmosphere. If the substance enters drains, sewers, etc inform the police or fire service. |
| Clean up of spillages | Absorb liquid in sand or earth and then remove to a suitable place for subsequent disposal. |

7. Handling and Storage.

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| Handling | Avoid inhaling vapours / spray, avoid contact with skin and eyes. Handle in a well ventilated area. All storage and transfer systems should be earthed to prevent the build up of static discharges. |
| Storage | Store in accordance with the Highly Flammable Liquids Regulations. Keep containers tightly closed and dry. Avoid temperatures below 10°C and above 25°C. Drums should always be tightly closed after use. |
| Packaging materials | Mild steel, stainless steel. Many plastics are unsuitable. |

8. Exposure Controls / Personal Protection.

| Exposure limits | <u>STD</u> | <u>Long term</u> | <u>Short term</u> |
|------------------------|--|--------------------------------|---------------------------------|
| Acetone | OES | 750ppm – 1780mg/m ³ | 1500ppm – 3560mg/m ³ |
| Butanone | OES | 200ppm – 600mg/m ³ | 300ppm – 900mg/m ³ |
| Toluene | OES | 50ppm – 188mg/m ³ | 300ppm – 900mg/m ³ |
| Ventilation | Ensure good ventilation by means of local extraction at point of use. | | |
| Respiratory protection | Wear respiratory protection where there is a risk of exposure to concentrations above OEL (occupational exposure limit). | | |
| Hand protection | Wear plastic or rubber gloves. | | |
| Eye protection | Wear chemical resistant goggles. | | |
| Skin protection | Wear protective clothing. | | |

9. Physical and Chemical Properties.

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| Appearance | Cream coloured liquid | |
| Odour | Pungent | |
| Boiling point | Acetone | 56°C |
| | Butanone | 80°C |
| | Toluene | 110°C |
| Flash point | -18°C (closed cup) | |
| Flammability | Highly flammable liquid | |
| Auto ignition temperature | 465°C (Acetone) | |
| Explosive limits in air % v/v | Lower | 1.8 |
| | Upper | 13.0 |
| Viscosity @ 20°C | 3300 cP (approx.) | |
| Vapour pressure @ 20°C Kpa | Acetone | 24.1 |
| | Butanone | 10.1 |
| | Toluene | 2.93 |
| Relative density @ 20°C | 0.86 | |
| Solubility | Water | Acetone and Butanone are soluble – the rest is insoluble. |
| | Fat | Soluble in hydrocarbons, ketones and esters. |

10. Stability and Reactivity.

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| Stability | Stable and un-reactive at normal temperatures and conditions. |
| Reactivity | Although the preparation is stabilised; halogenated polymers can undergo dehydrohalogenation; especially at elevated temperatures with the possible liberation of corrosive hydrochloric acid fumes. |

11. Toxicological Information.

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| LD50 Oral (rat) | Acetone | 3.98 g/kg |
| | Butanone | 3.98 g/kg |
| | Toluene | 5.50 g/kg |
| LD50 Dermal (rabbit) | Acetone | > 8.0 ml/kg |
| | Butanone | > 8.0 ml/kg |
| LC50 Inhalation (rat) | Toluene | 4600 ppm |
| Eye contact | May cause conjunctive irritation and corneal damage. | |
| Skin contact | Mild irritant but prolonged contact can cause more severe effects such as dermatitis. | |
| Inhalation | Irritation of the respiratory tract. High concentrations may depress CNS leading to unconsciousness. | |
| Ingestion | Low acute toxicity, may cause gastrointestinal irritation and CNS depression leading to unconsciousness. Aspiration in to the lungs may cause chemical pneumonia and lung damage. | |

12. Ecological Information.

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| Mobility | Not known. |
| Persistence and degradability | Acetone and butanone are very readily biodegradable, the main hazard in water being oxygen depletion. Toluene is readily biodegradable, it will float on water but evaporates rapidly. |
| Bioaccumulation | Acetone and butanone do not bioaccumulate and toluene has low potential to bioaccumulate. |
| Ecotoxicity | Acetone and butanone are considered to be an insignificant toxic hazard to aquatic organisms and at most slightly toxic to mammalian wildlife. Toluene is only slightly toxic to aquatic organisms but harmful to mammalian wildlife. |

13. Disposal Consideration.

Disposal of the wet adhesive is governed by the Control of Pollution (Special Wastes) Regulations 1980.

Non-recoverable waste should be disposed of via a licensed waste disposal contractor.

Dried material is non-hazardous.

14. Transport Information.

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| UN Number | 1133 | UN Class | 3.2 |
| CHIP Label for conveyance | Highly flammable | UN Packing group | II |

15. Regulatory Information.

CHIP Label for supply



HIGHLY FLAMMABLE

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| Classification | F and Xn |
| CHIP Risk phrases | R11 Highly flammable. R20 Harmful by inhalation. R36 Irritating to eyes. R66 Repeated exposure may cause skin dryness and cracking. R67 Vapours may cause drowsiness and dizziness. |
| CHIP Safety phrases | S9 Keep containers in a well ventilated place. S16 Keep away from sources of ignition. NO SMOKING. S23 Do not breathe vapour. S25 Avoid contact with eyes. S29 Do not empty into drains. S33 Take precautionary measures against static discharges. S51 Use only in well ventilated areas. |
| Regulatory references | CHIP Regulations 1996. Highly Flammable Liquids Regulations 1972. Health and Safety at Work Act 1974. COSHH Regulations 1994. |

16. Other Information.

Other information This adhesive should be used in accordance with the supplier's recommendations.

The information provided in this data sheet is based on our current knowledge of the product and is intended to describe it for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.