SAFETY DATA SHEET

ISSUED SEPTEMBER 2014 (VALID 5 YEARS FROM DATE OF ISSUE)

8480 TOUGHENED ETHYL HIGH STRENGTH BLACK CYANOACRYLATE ADHESIVE

SECTION 1 - IDENTIFICATION OF THE MATERIAL

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Product Name: Toughened Ethyl High Strength Black Cyanoacrylate Adhesive
Product Type: Cyanoacrylate Adhesive
Part Number: 8480
Available Sizes: 8480-20 (20 g)
8480-50 (50 g)
8480-500 (500 g)

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>CAS #</th>
<th>%</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Cyanoacrylate Ester</td>
<td>7085-85-0</td>
<td>90-95</td>
<td>0.2 ppm TWA</td>
<td>None</td>
</tr>
<tr>
<td>Hydroquinone</td>
<td>123-31-9</td>
<td>0.1-1</td>
<td>2 mg/m³ TWA</td>
<td>2 mg/m³ TWA, 4 mg/m³ STEL</td>
</tr>
</tbody>
</table>

SECTION 3 - HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to the classification of NOHSC. This material is classified as Irritant (Xi)
Risk Phrases: R36/37/38 - Irritating to eyes respiratory system and skin
Safety Phrases: S2 - Keep out of reach of children
S23 - Do not breathe vapour
S24/25 - Avoid contact with skin and eyes
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 - After contact with skin, wash immediately with plenty of soap suds
S37/39 - Wear suitable gloves and eye/face protection
S46 - If swallowed, seek medical advice immediately and show this container or label

Relevant Routes of Exposure: Skin, Inhalation, Eyes

Potential Health Effects
Inhalation: May cause respiratory tract irritation.
Skin contact: May cause allergic skin reaction. May cause skin irritation or burns. Bonds
Eye Contact: Contact with eyes will cause irritation. Vapour irritating to eyes and mucous membranes TLV. Ingestion: Not expected to be harmful by ingestion.

**SECTION 4 - FIRST AID MEASURES**

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.

Skin Contact: Wash with soap and water. Do not pull bonded skin apart. It may be peeled apart using a blunt object (e.g., a spoon). Acetone may be used to dissolve the cured adhesive. Remove contaminated clothes and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.

Eye Contact: Flush with copious amounts of water, preferably lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.

Ingestion: DO NOT induce vomiting. Keep individual calm. Obtain medical attention.

**SECTION 5 - FIRE FIGHTING MEASURES**

Flash point: Greater than 70°C (160°F) Tag Closed Cup

Autoignition Temperature: Not available

Flammable/Explosive Limits - Lower %: Not determined

Flammable/Explosive Limits - Upper %: Not determined

Extinguishing Media: Foam, dry chemical, or Carbon Dioxide

Special Fire Fighting Procedures: None

Unusual Fire or Explosion Hazards: None


**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Environmental Precautions: Polymerise with water and scrape up. Use PPE if spill is large. Prevent product from entering drains or open waters.

Clean-up Methods: Soak up with inert absorbent material (e.g., sand, earth, vermiculite). Store in a partly filled closed container until disposal. Dispose of solid residues in accordance with relevant State and Federal requirements.

**SECTION 7 - HANDLING AND STORAGE**

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapour and mist. Wash thoroughly after handling.

Storage: For safe storage, store at or below 24°C (75°F). Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

Incompatible Products: Refer to Section 10 - Stability and Reactivity

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls: No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limits.

Respiratory Protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Skin Protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves. Butyl rubber gloves. Natural rubber gloves.

Eye/face Protection: Safety goggles or safety glasses with side shields.

Exposure Limits: Refer to Section 2 - Composition/Information on Ingredients
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Clear</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>Less than 5 mm Hg at 27°C (80°F)</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>Greater than 149°C (300°F)</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.1 at 23.9°C (75°F)</td>
</tr>
<tr>
<td>Vapour Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Slight. Polymerises in the presence of water.</td>
</tr>
</tbody>
</table>

SECTION 10 - STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Will not occur</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Refer to Section 7 - Handling and Storage</td>
</tr>
<tr>
<td></td>
<td>Refer to 'Incompatibility', this section, above</td>
</tr>
</tbody>
</table>

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute

Ingestion: Cyanoacrylates are considered to have relatively low toxicity. This material will rapidly polymerise in the mouth.

Skin: Irritating to the skin. Bonds skin rapidly.

Eyes: Contact with the eyes will cause irritation. The material will bond eyelids. In a dry atmosphere, vapours may irritate the eyes.

Inhalation: Inhalation of vapours can cause respiratory irritation.

Chronic

Prolonged exposure to high concentrations of vapours may lead to chronic effects in sensitive individuals.

Product toxicity data: Acute oral LD50 greater than 5,000 mg/kg (rat)  
Acute dermal LD50 greater than 2,000 mg/kg (rabbit)

SECTION 12 - ECOLOGICAL INFORMATION

Do not allow material to contaminate the soil or waterways.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recommended method of disposal: Dispose of according to Federal, State, and local government regulations.

EPA hazardous waste number: Not an RCRA hazardous waste.

SECTION 14 - TRANSPORT INFORMATION

Not classified as Dangerous Goods according to the criteria of the Australian Code for the transport of Dangerous Goods by Road and Rail (ADG Code).
Not classified as Dangerous Goods for air transport.

**UN Number:** 3334  
**Proper Shipping Name:** Aviation Regulated Liquid, N.O.S. (Contains Cyanoacrylate Ester)  
**Class:** 9  
**Packing Group:** -  
**Hazchem Code:** -

**SECTION 15 - REGULATORY INFORMATION**

**SUSDP Poison Schedule:** 5

**SECTION 16 - OTHER INFORMATION**

**Abbreviations/Acronyms:**  
NOHSC - National Occupational Health and Safety Commission  
NIOSH - National Institute of Occupational Health and Safety  
ACGIH - American Conference of Government Industrial Hygienists  
SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons  
TWA - Time Weighted Average  
TLV - Threshold Limit Value  
STEL - Short Term Exposure Limit  
PEL - Permissible Exposure Limit

**DISCLAIMER**

The information contained within this MSDS applies only to the Chemtools product to which the sheet relates.

The information provided is based on our best knowledge at the time of issue.

The information contained within this MSDS is believed to be accurate and is given in good faith. However, no warranty is made, either expressed or implied, regarding its accuracy or any liability arising out of the use of the information herein or the product supplied.

When used in other preparations, formulations, or in mixtures, it is necessary to ascertain whether the classifications of the hazards have changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it was recommended. In such cases, a reassessment may be necessary and should be made by the user.

This safety data sheet should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work.

It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come in to contact with, handle or use this product in any way. They should check the adequacy of the information provided within this MSDS before passing it on to their customers/staff.