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Revision date:

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: CHENSO 1640 2- Octyl Cyanoacrylate adhesive

Item No.: 1640

Manufacturer/Supplier:

Chenso Inc.
5710-K High Point Road #195
Greensboro, NC 27407

Contact Information:

Telephone: 336.681.4131
Fax: 336.217.8059

Emergency information

CHEMTREC: Domestic: 1-800-424-9300
International: 703- 527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components:</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
2- Octyl cyanoacrylate 133978-15-1	98-100	None	None	None

3. HAZARDS IDENTIFICATION

Emergency overview

Physical state: Liquid
Color: Clear
Odor: Sharp, Irritating

HMIS:

Health: 2
Flammability: 2
Physical Hazard: 1
Personal Protection See Section 8

Warning: Bonds skin in seconds. May cause eye and respiratory irritation. Combustible liquid and vapor.

Potential Health Effects:

Inhalation: Exposure to vapors above the established exposure limit results in respiratory irritation which may lead to difficult in breathing and tightness in the chest

Skin contact: Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health even if bonded to the skin

Eye contact: Irritating to eyes. Causes excessive tearing. Eyelids may bond.

Ingestion: Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

Conditions aggravated by exposure: Eye, skin, and respiratory disorders.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If discomfort persists seek medical attention.
Skin contact:	Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage.
Ingestion:	Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.
Notes to physician:	Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.

5. FIRE FIGHTING MEASURES

Flash point:	>80°C (176°F) to 93°C (199.4°F) TCC
Auto ignition temperature:	485°C (905°F)
Flammable/Explosive limits:	Not determined
Extinguishing media:	Water spray. Dry powder. Foam. Carbon dioxide.
Special fire fighting procedures:	Fire fighters should wear positive pressure self-contained breathing Apparatus (SCBA).
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Ventilate area. Prevent product from entering the drains or open waters.
Clean-up methods:	Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

7. HANDLING AND STORAGE

- Handling:** Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.
- Storage:** Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
- Incompatible products:** No special restrictions on storage with other products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls:** Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
- Respiratory protection:** Use NIOSH approved respiratory if there is potential to exceed exposure limit(s).
- Skin protection:** Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.
- Eye/face protection:** Chemical splash goggles or safety glasses with side shields.
- Other protective equipment:**

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state:** Liquid
- Color:** Clear
- Odor:** Sharp, Irritating
- Vapor pressure:** Less than 0.2 mm Hg
- pH:** Not applicable
- Boiling point/range:** > 150°C (300°F)
- Melting point/range:** Not determined
- Flash point:** >80°C (176°F) to 93°C (199.4°F)
- Freezing point:**
- Specific gravity:** 1.05 @ 25°C
- Vapor density:** Approximately 3
- Evaporation rate:** Not available
- Solubility in water:** Polymerizes in presence of water
- VOC content:** Less than 2%; 20 g/L (California SCAQMD Method 316B) (estimated)
- Viscosity:** < 7 cP
- Partition coefficient (n-octanol/water):** Not applicable

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Hazardous polymerization:	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
Hazardous decomposition products:	None
Incompatibility:	Water, amines, alkalis and alcohols.
Conditions to avoid:	Spontaneous polymerization.

11. TOXICOLOGICAL INFORMATION

Product toxicity data:	Acute oral LD50 >5000 mg/kg (rat) (estimated). Acute dermal LD50 > 2000 mg/kg (rabbit) (estimated).
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Carcinogen status:

Hazardous components

2- Octyl cyanoacrylate
133978-15-1

**NTP
Carcinogen**
No

**IARC
Carcinogen**
No

**OSHA
Carcinogen**
No

Literature Referenced Target Organ & Other Health Effects:

Hazardous components

2-Octyl cyanoacrylate
133978-15-1

Health Effects/Target Organs

Allergen, Irritant, Respiratory

12. ECOLOGICAL INFORMATION

Ecological Information:	Not known
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13. DISPOSAL CONSIDERATIONS

Recommended method of disposal:	Dispose of in accordance with Federal, State and local regulations.
EPA hazardous waste number:	Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Combustible liquids, n.o.s. (Cyanoacrylate ester)
Hazard class or division: 3
Identification number: NA 1993
Packing group: None
Exceptions: (Not more than 450 Liters) Unrestricted
Marine pollutant: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Aviation regulated liquids, n.o.s. (Cyanoacrylate ester)
Hazard class or division: 9
Identification number: UN 3334
Packing group: III
Exceptions: (Not more than 500ml) Unrestricted

Water Transportation (IMO/IMDG):

Proper shipping name: Unrestricted
Hazard class or division: None
Identification number: None
Packing group: None
Marine pollutant: None

15. REGULATORY INFORMATION

United States Regulatory Information:

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 5 (a) (2) SNUR: None

TSCA 12 (b) Export Notification: None

CERCLA/SARA Section 302 EHS: None

CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive.

CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information:

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Domestic Substances List.

WHMIS hazard class: B.3, D.2.B

16. OTHER INFORMATION

DISCLAIMER: This information is based on our present knowledge. The information contained within this MSDS applies only to these Chenso products to which the sheet relates. However no warranty is made, either express or implied, regarding its accuracy or any liability arising out of the use of the information herein or the products 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.