

01. Identification of the substance/mixture and of the company

Product name: Glue for Instrument Tube Brushes

Code number(s): ITB-30-9, ITB-30-12, ITB-60-9, ITB-60-12

Purpose of product: The glue used to adhere the tip to the tube.

Manufacturer/supplier: Healthmark Industries Co.

Address: 18600 Malyn Blvd. / Fraser, MI 48026

Telephone/Fax/Email: (800) 521-6224 / (586) 491-2113 / healthmark@hmark.com

Emergency telephone number: (800) 424-9300 (24-hour service)

02. Hazards identifications

Classification of the substance or mixture: N/A

Pigment: N/A

Adverse environmental and human health effects: Glue BONDS TO SKIN IN SECONDS. May cause eye and respiratory irritation. Combustible liquid and vapor

03. Composition/information on ingredients

<u>Description of the mixture:</u>	<u>CAS #:</u>		<u>% by Weight</u>		
	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>	
Ethyl cyanoacrylate	60-100	0.2 ppm TWA	NONE	NONE	

Hazardous ingredients: N/A

General information: Bonds with 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 generated heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin.

Following inhalation: Remove to fresh air, if discomfort persists seek medical attention.

Following 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 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.

Following eye contact: Irritating to eyes. Causes excessive tearing. Eyelids may bond. 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 de-bond 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.

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

04. Firefighting measures

Suitable extinguishing media: Water spray, dry powder, foam, Carbon Dioxide

Unsuitable extinguishing media: N/A

Special hazards arising from the substance and combustion products: Trace amount of toxic and /or irritating fumes may be released, and the use of breathing apparatus is recommended.

Advice for firefighters: Should wear positive pressure self-contained breathing apparatus (SCBA).

05. Accidental release measures

General information: N/A

Environmental precautions: Ventilate area. Prevent product for entering the drains.

Additional information: 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.

06. Handling and storage

Precautions for safe 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.

Fire Preventions: N/A

Technical measures and storage conditions: Keep in a cool, well ventilated area away form heat, sparks and open flame. Keep container tightly closed until ready for use.

07. Exposure controls/personal protection

Control parameters: Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Personal protective equipment: N/A

Hand protection: Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.

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

Eye protection: Chemical splash goggles or safety glasses with side shields.

Advice on general occupational hygiene: N/A

Environmental exposure controls: N/A

08. Physical and chemical properties

Appearance: N/A

Physical state: N/A

Color: N/A

Odor: N/A

Safety relevant basic data: N/A

Explosion hazard: N/A

Density: 3

pH: N/A

Initial boiling point/range: °C /°F N/A

Solubility: Polymerizes in presence of water

Flash point: 80°C /176°F to 93.3°C /200°F Tagliabue closed cup

Ignition temperature: 485°C / 905°F

Melting point: °C / °F N/A

Conditions to avoid: N/A

Incompatible materials: N/A

VOC content: Less than 2%; 20 g/L (California SCAQMD method 316 B)
(estimated)

09. Stability and reactivity

Conditions to avoid: Spontaneous polymerization. Rapid exothermic polymerization will occur in the presence of water, amines, alkalis, and alcohols.

Incompatible materials: Water, amines, alkalis and alcohols

Hazardous decomposition products: N/A

10. Toxicological information

Information on toxicological effects: N/A

Irritation: Health Effects/Target Organs: Allergen, irritant, respiratory.

Sensitization: N/A

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

Practical experiences: N/A

Ingredient: N/A

11. Ecological information

Terrestrial toxicity: No data available

Aquatic toxicity: N/A

Mobility: N/A

Persistence and degradability: N/A

Bio accumulative potential: N/A

Results of PBT and vPvB assessment: N/A

Other adverse effects: N/A

12. Disposal considerations

Product: Dispose of in accordance with Federal, State and local regulations.

Contaminated packaging: N/A

Uncontaminated packaging: N/A

13. Transport information

UN-No: UN 3334

Proper shipping name: U.S Department of Transportation Ground (49 CFR):
Combustible liquids, n.o.s. (Cyanoacrylate ester).

Classification code: U.S 3, International 9

Packing group: N/A

Hazard label: N/A

14. Regulatory information

Material safety evaluation: N/A

Regulation on combustible liquids: U.S. – CERCLA/SARA Section 311/312: Immediate health hazard, delayed health hazard, fire, reactive.

Class according 2009/104/EG (BetrSichV): N/A

Water hazard class: Canada- B.3, D.2.B

Storage according TRGS 510 (Storage of hazardous substances in non-stationary containers): N/A

15. Other information

Recommended application: N/A

Relevant R-, H-, and EUH-phrases: N/A

The information supplied in this Safety Data Sheet is designed only as a guidance for the safe use, storage, and handling of the product. This information is correct to the best of our knowledge and beliefs at the date of the 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 processes.

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