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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: March 21, 2013

SPI# 05009-AB
PERMATEX® Super Glue-3 Cyanoacrylate glue system

Section 1: Identification

Chemical Name/Synonyms.....PERMATEX® Super Glue-3 Cyanoacrylate glue system

Chemical family.....Adhesives

Emergencies
Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...
Worldwide phone: 1-(703)-527-3887
Worldwide FAX: 1-(703)-741-6090
Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name.....PERMATEX® Super Glue-3 Cyanoacrylate glue system

CAS #'s.....7085-85-0
9011-14-7

Chemical Formula..... Mixture

Hazardous Material Information System USA
- Health.....2
- Fire Hazard.....2
- Reactivity.....0
- Personal Protection.....

NFPA Rating (estimated)
- Health.....2
- Flammability.....2
- Reactivity.....1

GHS Classification

Skin Irritation – Category 3
Eye Irritation – Category 2
Acute (Specific Target Organ) toxicity – single exposure – Category 3
Inhalation – May cause respiratory irritation
Specific target organ toxicity – repeated exposure No data available

Signal Word: Warning!

Hazard Statements:

H316: May cause skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation

Precautionary statements:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P305+P351+P338: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352: Wash with plenty of soap and water

Risk Phrases:

R36: Irritating to eyes
R37: Irritating to respiratory system
R38: Irritating to skin

Safety Phrases:
S2: Keep out of the reach of children
S23 : Do not breathe gas/fumes/vapor/spray.
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.

WGK Germany: not available

Section 2: Composition

Component Name	CAS #	Percent	EINECS/ELINCS
Ethyl-2-Cyanoacrylate	7085-85-0	>70	230-391-5
Poly (Methyl Methacrylate)	9011-14-7	<30	Unlisted

Section 3: Hazard Identification

Emergency Overview: Skin contact may cause burns. Bonds skin rapidly and strongly. Causes eye irritation. Irritates mucous membranes.

Primary Routes of Entry: Eye and skin contact, inhalation

Signs and Symptoms of Exposure: Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Appearance: Clear liquid
Flash Point: 85 °C (185 °F)
Target Organs: Eyes, Skin

Potential Health Effects
Eye: Causes eye irritation
Skin: May cause skin irritant.
Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Aspiration Hazard: No data available
Chronic: No data available

Section 4: First Aid Measures

Eye Contact: In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation. If cyanoacrylate is introduced into the eyes, it will attach to the eye protein and will disassociate from it over

intermittent periods, generally several hours. This will cause periods of weeping until clearance is achieved. During this period, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

Skin Contact: Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin. For skin adhesion, first immerse the bonded surfaces in warm, soapy water. Peel or roll the surfaces apart with the aid of a blunt edge, e.g., spatula or teaspoon handle; then remove adhesive from the skin with soap and water. Do not try to pull surfaces apart with a direct opposing action. Cyanoacrylates give off heat on solidification. In rare cases, a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above

Inhalation: Move to fresh air in case of accidental inhalation of vapors. Oxygen or artificial respiration if needed. Obtain medical attention.

Ingestion: Ingestion is not likely. The adhesive solidifies and adheres in the mouth. If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action. Saliva will lift the adhesive in one half to two days.

Section 5: Fire Fighting Measures

Flash Point °C(F°): 85 °C (185 °F)

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.
Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus.
Hazardous Products of Combustion: Oxides of carbon
Unusual Fire/Explosion Hazards: May polymerize exothermically.
Lower Explosive Limit: Not determined.
Upper Explosive Limit: Not determined.

Section 6: Accidental Release Measures

Spill Procedures: Flood with water to polymerize. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

Section 7: Handling and Storage

Storage: Store below 77°F (25°C).

Handling: Avoid contact with skin and eyes. Avoid contact with clothing. Do not inhale vapors. Keep container closed when not in use. Wash hands before eating and smoking.

Section 8: Exposure Controls and Personal Protection

Eyes: Safety glasses.

Skin: Neoprene or nitrile gloves recommended. Do not wear protective clothes containing cotton.

Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.

Respiratory Protection: An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

Section 9: Physical and Chemical Properties

Appearance: Clear liquid

Odor: Irritating

Boiling Point: >300°F

pH: Does not apply

Solubility in Water: Insoluble, material hardens

Specific Gravity: 1.05

VOC(Wt.%): <20 g/l (California SCAQMD Method 316B)

Vapor Pressure: 1 mm Hg @ 20°C

Vapor Density (Air=1): Approximately 3

Evaporation Rate: Nil

Section 10: Stability and Reactivity

Chemical Stability: Stable at normal conditions

Hazardous Polymerization: Hazardous polymerization may occur if over-catalyzed or insufficiently aerated after catalyzation. This polymerization is exothermic

Incompatabilities: Polymerized by contact with water, alcohols, amines or alkalies.

Conditions to Avoid: Avoid contact with clothes, fabrics, rags or tissue. Contact with these material may cause polymerization.

Hazardous Products of Combustion: Oxides of carbon

Section 11: Toxicological Information

Toxicity: Skin contact may cause burns. Bonds skin rapidly and strongly. Causes eye irritation. Irritates mucous membranes.

Primary Routes of Entry: Eye and skin contact, inhalation

Signs and Symptoms of Exposure: Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Component	Weight %	NTP	ACGIH Carcinogens	IARC Carcinogen
POLY (METHYL METHACRYLATE) 9011-14-7	<30			Group 3 Vol. 19, pg 187; 1979

LD_{50}/LC_{50} Information:

NA

Teratogenicity:
No known significant effects or critical hazards.

Reproductive Effects:
No known significant effects or critical hazards.

Section 12: Ecological Information

Ecotoxicity: No Data available

Environmental Fate: No data available

Aquatic: No data available

Atmospheric: No data available

Physical: No data available

Section 13: Disposal Considerations

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations.

US EPA Waste Number: NH - Not a RCRA Hazardous Waste Material

Section 14: Transport Information

DOT (49CFR 172)
U.S. Department of Transportation- DOT- 49 CFR (Ground):
DOT Shipping Name: Not regulated
Hazard Class: None
UN/ID Number: None

IATA (Air):
Proper Shipping Name: Not regulated
Class or Division: None
UN/ID Number: None

IMDG (Vessel):
Proper Shipping Name: Not regulated
Hazard Class: None
UN Number: None
Marine Pollutant: None

Section 15: Regulatory Information

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical:
NONE

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

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 2 , REACTIVITY 1.

Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 2, PHYSICAL HAZARD 0

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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