

Material Safety Data Sheet

READ MATERIAL SAFETY DATA SHEET BEFORE HANDLING PRODUCT!

Issue Date: Feb.1,2013

1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER: 110005
PRODUCT NAME CYANOACRYLATE ADHESIVE
SYNONYMS SUPER GLUE ; NAIL GLUE

2. COMPOSITION/INFORMATION ON INGREDIENTS CLASSIFICATION

Chemical Family Cyanoacrylate Adhesive
Component Ethyl cyanoacrylate Poly(methyl methacrylate)
Concentration(%) 90%~99% 1~10%
CAS No. 7085-85-0 9011-14-7
EG No. 230-391-5 618-466-4
H-Phrase(s) H319/H335/H315 H319/H335/H315
R-Phrase(s) R36/37/38 R36/37/38
Pictogram(s) GHS07 Warning GHS07 Warning
Symbol(s) Xi Xi
Category Eye Irrit 2 STOT SE3 Skin Irrit 2 Eye Irrit 2 STOT SE3 Skin Irrit 2
Physical state: Liquid HEALTH: 2
Color: Colorless FLAMMABILITY: 2
Odor: Irritating PHYSICAL HAZARD: 1
WARNING: BONDS SKIN IN SECONDS.
MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION.
COMBUSTIBLE LIQUID AND VAPOR

3. HAZARDS IDENTIFICATION

HAZARDS IDENTIFICATION: Xi: Irritant R36/37/38 Irritating to eyes, respiratory system and skin.

EMERGENCY OVERVIEW

WARNING.
ON CONTACT, WILL BOND EYELIDS TOGETHER
EYE IRRITANT. SKIN IRRITANT.
HARMFUL IF SWALLOWED. ON CONTACT WILL BOND SKIN
Colorless Liquid Pungent odor

EYE SKIN CONTACT

Will cause eye irritation. On contact, will bond eyelids together.
SKIN CONTACT Repeated or prolonged skin contact may result in moderate
irritation. On contact,immediate bonding of the skin will occur.

INHALATION

Vapor or aerosol, if generated, can cause irritation of the eyes, nose and respiratory tract. Vapor may be irritant to the respiratory tract.

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INGESTION

On contact, immediate bonding of mouth could occur.

4. FIRST-AID MEASURES

EYE

Flush with large amounts of water while holding eyelids open. Get medical attention immediately. Cured adhesive will not bond well to surface of eye, but corneal damage from abrasion may result. Do not wear contact lenses when working with this material.

SKIN CONTACT

No attempt should be made to remove material from skin or to remove contaminated clothing, as the bonded skin can be easily torn. Wash with large volumes of soap and water while flexing bonded skin parts. This procedure will slowly release bonded areas.

INHALATION

DO NOT mechanically remove cured adhesive or attempt to pull skin apart. Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.

INGESTION

Immediate bonding of mouth will occur. Get medical attention.

5. FIREFIGHTING MEASURES

AUTOIGNITION

Not Applicable

FLASH POINT

83°C(Setaflash Closed Tester)

EXTINGUISHING MEDIA

CO₂; Dry Chemical; Foam

SPECIAL FIREFIGHTING PROCEDURES

Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

FIRE & EXPLOSION HAZARDS

Cloths used to wipe up spills may cause rapid polymerization that could generate sufficient heat to ignite the cloth. Combustion will evolve toxic and irritant vapors.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES SMALL SPILLS: wipe up with cloth. Immediately soak cloth with water

to polymerize the adhesive. Caution! Cloth containing adhesive may undergo autoignition if not soaked with water.

LARGE SPILLS: flood area with water. When cured, remove film with a scraper. Wear NIOSH approved respirator for organic vapors if needed, and protective clothing. For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE	<25°C
HANDLING/STORAGE and direct Sunlight	Keep away from heat, sources of ignition and do not store above 25°C. Keep containers closed tightly when not in use. Ideal storage 5~10°C.. Keep away from moisture.
SPECIAL SENSITIVITY	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	EXPOSURE LIMITS
Ethyl cyanoacrylate	ACGIH-TWA: 0.2 ppm OSHA-PEL: 2 ppm OSHA-STEL: 4 ppm
VENTILATION REQUIREMENTS	Local.
EYE PROTECTION REQUIREMENTS	Safety glasses, goggles or face shield to protect against splashing.
GLOVE REQUIREMENTS	Wear polyethylene gloves. Do not wear rubber or cloth gloves.
CLOTHING REQUIREMENTS	No special clothing required for low volume activity.
CHANGE/REMOVAL OF CLOTHING	Remove contaminated clothing and launder before reuse. Discard shoes, belts, wallets, and any other contaminated leather items.
WASH REQUIREMENTS	Wash before eating, drinking, or using toilet facilities.
RESPIRATOR REQUIREMENTS	Avoid prolonged or repeated breathing of vapor or mists. If exposure may or does exceed occupational exposure limits, use a NIOSH approved respirator to prevent overexposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTURE	Mixture
PHYSICAL FORM	Liquid
COLOR	Colorless
ODOR	Pungent
PH AS IS	Not applicable
pH IN (1%) SOLUTION	Not applicable
OXIDIZING PROPERTIES	Not applicable
BOILING POINT	195°C
MELTING/FREEZING POINT	Not available
SOLUBILITY IN WATER	Insoluble
VISCOSITY	2-100cPs

SPECIFIC GRAVITY (WATER=1)	1.05
BULK DENSITY	8.75 lb/gal
VAPOR PRESSURE (mmHg)	0.3
VAPOR DENSITY (air = 1)	>1
VOLATILES	Nil
VOLATILE ORGANIC COMPOUNDS	Nil
FLASH POINT	83°C (Setaflash Closed Tester)

10. STABILITY AND REACTIVITY

STABILITY	Stable
HAZARDOUS DECOMPOSITION PRODUCTS fumes of	Decomposes upon heating to release toxic nitrogen oxides, carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY Ingestion	Inhalation; Skin Contact; Eye Contact;
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CHRONIC (LONG TERM) EFFECTS OF EXPOSURE

TARGET ORGANS	Skin; Eyes; Respiratory system
CARCINOGEN	No.
COMPONENT Ethyl cyanoacrylate	<p>ORAL TOXICITY Oral LD50: Rat 180 mg/kg</p> <p>NOTES ON ORAL TOXICITY Ingestion may cause irritation of the gastrointestinal tract. On contact, immediate bonding of mouth could occur.</p>
COMPONENT Ethyl cyanoacrylate	<p>DERMAL TOXICITY Dermal LD50: Rabbit 220ml/kg</p> <p>NOTES ON DERMAL TOXICITY Irritating to the skin. On contact, immediate bonding of the skin will occur.</p>
COMPONENT Ethyl cyanoacrylate	<p>INHALATION TOXICITY</p> <p>NOTES ON INHALATION TOXICITY Vapor, if generated, can cause irritation of the eyes,nose and respiratory tract. Avoid breathing vapors or mists.</p>
COMPONENT NOTES Ethyl cyanoacrylate	<p>ON EYE IRRITATION On contact, will bond eyelids together. Vapors are lachrymatory. Will cause eye irritation. Cyanoacrylates will not bond to the eye but may cause corneal scratching.</p>

12. ECOLOGICAL INFORMATION

POTENTIAL TO BIOACCUMULATE	Unknown.
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AQUATIC TOXICITY

None Established

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS

Disposal should be in accordance with local, state or national legislation.

EMPTY CONTAINER WARNINGS

Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied.

14. TRANSPORTATION INFORMATION

UN no.	N.A.
IATA	N.A.
IMDG	N.A. Not a marine pollutant.
ADR/RID	N.A.
Further information	Not classified as hazardous for transportation

This section provided for general information only.
Not considered hazardous for the purpose of transportation.

15. REGULATORY INFORMATION.

Symbol(s) for Supply and
Indication(s) of Danger:

X

IRRITANT

Phrases:	R36/37/38	Irritating to eyes, respiratory system and skin.
Safety Phrases:	S2	Keep out of the reach of children.
	S25	Avoid contact with eyes.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Other phrases:	Danger:	Cyanoacrylate. Bonds skin and eyes in seconds.

Relevant regulations:

This Safety Data Sheet complies with The Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (CHIP 2), which implement the Council Directives 67/548/EEC (The Dangerous Substances Directive) and 88/379/EEC (The Dangerous Preparations Directive), and subsequent amending regulations, up to and including The Chemicals (Hazard Information and Packaging for Supply) (Amendment) (No.2) Regulations 1999 (CHIP 99(2)), which implements the 25th ATP of 67/548/EEC, and The Chemicals (Hazard Information and Packaging for Supply) Regulations 1999 (Amendment) (No.3) (CHIP 99(3)), which implements the 16th amendment to the Council Directive 76/769/EEC.

16* OTHER INFORMATION

ADDITIONAL INFORMATION:

NON-WARRANTY: The data presented in this sheet corresponds to the present level of our knowledge and experience and is intended to describe our product with respect to possible safety demands. We imply with this however no guarantee of properties or description of qualities, it remains the customers' responsibility to ensure safe working practices. Attention is drawn to the possible hazards from improper use of the product. Neither HOPSON



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