

Barristo Enterprises, Inc., dba SureHold®

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product Identifier Surface Insensitive Cyanoacrylate Adhesive, Part No. 601

Relevant identified uses of the substance or mixture and uses advised against

Intended Use: Cyanoacrylate Adhesive

Details of the supplier of the safety data sheet

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Skin corrosion/irritation	Category 2
Serious eye damage/ eye irritation	Category 2A
Specific target organ toxicity-single exposure	Category 3
Combustible liquid	Category 4

Label elements:

Hazard pictogram:



Single word:

Warning

Emergency Overview:

Bonds skin in seconds.
Causes skin irritation.
Causes serious eye irritation
May cause respiratory irritation.
Combustible liquid.

Precautionary Statement - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection, and face protection.
Wash face, hands and any exposed skin thoroughly after handling.
Keep away from heat, sparks, open flames, hot surfaces – No smoking.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Precautionary Statement - Response

**Precautionary Statement –
Storage****Precautionary Statement –
Disposal****Other information**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IN CASE OF FIRE: Use CO₂, dry chemical or foam to extinguish. Keep containers tightly closed. Store in a cool, well-ventilated place. Store locked up.

Dispose of contents and/or container according to Federal, State/Provincial and Local governmental regulations.

Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of reach of children.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Other hazards:

None if used properly.

3. COMPOSITION / INFORMATION ON INGREDIENTS

General chemical description: Cyanoacrylate Adhesive

Base substances of preparation: Cyanoacrylate

Chemical Name	CAS-No	Weight - %
Ethyl-2-cyanoacrylate	7085-85-0	>90-<100% *

* The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES**Description of first aid measures**

General advice	Avoid breathing gas/fumes/vapor/spray.
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
Skin contact:	IF ON SKIN: Immediately wash with soap and plenty of water. Allow warm water to penetrate the bond and gently attempt to remove bonded areas without pulling the skin away from bonded area. If skin irritation persists, call a physician.
Eye contact:	IF IN EYES: Rinse immediately with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. If symptoms persist, call a physician.
Ingestion:	Ensure that breathing passages are not obstructed. The product will polymerize immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth.
Self-protection of the first aider:	Use personal protective equipment as required.

Most important symptoms and effect, both acute and delayed

See Section 11.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

5. FIRE FIGHTING MEASURES**Extinguishing media**

Suitable extinguishing media:	Alcohol-resistant foam, dry powder, carbon dioxide (CO ₂), water spray jet
Unsuitable extinguishing media:	High volume water jet.

Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂).

Advice for firefighters

In case of fire and/or exposure do not breathe fumes. Firefighters should wear positive pressure self-contained breathing apparatus (SCBA). Firefighting operations, rescue and cleaning work under effect of combustion and smolder gases may be done with breathing apparatus. Dispose of contaminated extinction water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Use personal protective clothing.
For emergency responders: Ensure adequate ventilation. Avoid contact with eyes or skin.

Environmental precautions

If leakage occurs, dam up. Resolve leaks, if possible, without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities.

Methods and material for containment and cleaning up

Do not use cloth for clean-up. Flood with water to complete polymerization and scrape up the polymer. Solid material can be disposed as non-hazardous waste.

Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mists. Wash thoroughly after handling. Avoid contact with fabric and paper goods. Contact with these may cause polymerization that can generate smoke and strong irritating vapors and can cause thermal burns.
Advice on general occupational hygiene: Wash hands and face before eating.

Conditions for safe storage, including and incompatibilities

Keep in a cool, well-ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready to use. Incompatible products: Do not store together with alkalis.

Incompatible materials

Water, Alcohols, Amines, Alkalis

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters**

Chemical Name	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethyl-2-cyanoacrylate 7085-85-0	0.2ppm TWA	----	----	----

Exposure controls

Appropriate Engineering Controls: If general ventilation is insufficient to maintain vapor concentration below established exposure limits, use protective downdraft exhaust ventilation. Keep away from food stuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin
Individual protection measures
General protective and hygienic measures Safety glasses with side shields or chemical splash goggles.
Eye/Face protection Do not use PVC, rubber, cotton or nylon gloves.
Skin protection Tested protective gloves are to be worn: Suitable material: Synthetic rubber gloves. For special applications, it is recommended to check the chemical resistance with the glove manufacturer.
Hand protection If there is a potential to exceed exposure limits, use an approved respirator.
Respiratory protection

Environmental exposure controls

Do not empty into drains or the aquatic environment.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state:	Liquid
Appearance:	Colorless to straw color
Odor:	Sharp, irritating
Odor threshold	Not available.
pH:	Not applicable.
Melting point/freezing point:	-22°C
Initial boiling point and boiling range:	>200°C
Flash point	80-93.4°C (Method: Tag closed cup)
Evaporation rate (Butyl acetate = 1):	Not available.
Flammability:	Not available.
Upper flammability limit:	Not available.
Lower flammability limit:	Not available.
Vapor Pressure (25°C):	Less than 0.2 mmHg
Vapor Density (Air=1):	Approximately 3
Relative Density:	1.1g/cm ³
Solubility:	Polymerizes in the presence of water.
Partition coefficient:	Not applicable.
Auto-ignition temperature:	485°C
Decomposition temperature:	Not applicable.
Viscosity	80-150 cps.
Explosive properties:	Product is not explosive.
Oxidizing properties:	Product is not oxidizing.

Other information

Specific gravity:	1.10 (25°C)
VOC content:	Less than 2%; 20g/l (California SCAQMD Method 361B)

10. STABILITY AND REACTIVITY**Reactivity**

No information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Danger of polymerization. Polymerization with evolution of heat.

Conditions to avoid

Spontaneous polymerizations.

Incompatible materials

Water, amines, alkalis, oxidizing agents and alcohols.

Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Inhalation** May cause irritation of respiratory tract

SUREHOLD® Surface Insensitive Cyanoacrylate #601Revision 4
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Eye contact Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

Skin contact Irritating to the skin. Bonds skin in seconds.

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

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Heal Effects
Ethyl-2-cyanoacrylate	None	Irritant, Allergen, Respiratory

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl-2-cyanoacrylate	No	No	No

Information on toxicological effects

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available

Germ cell mutagenicity No information available

Carcinogenicity According to NTP, OSHA and IARC, the substance is not carcinogen.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Biological and chemical oxygen demands (BOD and COD) are insignificant. Do not empty into drains/ surface water/ ground water. Do not allow uncontrolled leakage of product into the environment.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility in soil: Cured adhesives are immobile.

Results of PBT and vPvB Assessment: PBT: Not applicable
vPvB: Not applicable

Other adverse effects: No further relevant information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container

US EPA Waste Number Not applicable

Special precautions: Not available.

14. TRANSPORT INFORMATION

DOT Proper shipping name Not regulated

IATA Proper shipping name Aviation Regulated Liquid, N.O.S. (Cyanoacrylate Ester)

UN/ID No.: UN 3334

Hazardous Class: 9

Packaging Group: III
Proper shipping name Not regulated

IMGD**15. REGULATORY INFORMATION****United State Regulatory Information**

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

TSCA 12(b) Export Notification: None above reporting de minimis.

CERCLA/SARA Section 302 EHS: None above reporting de minimis.

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

CERCLA/SARA Section 313: None above reporting de minimis.

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

Canada Regulatory Information

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

NFPA	Health hazards 2	Flammability 2	Instability 0	---
HMIS	Health hazards 2	Flammability 2	Physical hazards 0	Personal protection B

NFPA (National Fire Protection Association)
 HMIS (Hazardous Material Information System)

Further information This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties. Substances have been classified in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).