

Barristo Enterprises, Inc., dba SureHold®

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product Identifier Medical Device Cyanoacrylate Adhesive, 6011

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	H315 Causes skin irritation	Category 2
Serious eye damage/ eye irritation	H319 Causes serious eye irritation	Category 2
Specific target organ toxicity-single exposure	H335 May cause respiratory irritation	Category 3

Label elements:

Hazard pictogram:	
Single word:	Warning
Emergency Overview:	Causes skin irritation Causes serious eye irritation May cause respiratory irritation Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
Precautionary Statement - Prevention	Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fumes/gas/mist/vapor/spray
Precautionary Statement - Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. . Store locked up.
Precautionary Statement - Storage	
Precautionary Statement - Disposal	Dispose of contents/container to an approved waste disposal plant.
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	EINECS Number Index Number REACH-Reg No.	Weight - %
Ethyl-2-cyanoacrylate	7085-85-0	230-391-5 607-236-00-9 01-2119527766-29-0002	>70-<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: Wash with soap and 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 so. Continue rinsing. Get medical advice/attention.
Ingestion:	Not an expected route of exposure. 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

May cause allergic or asthma symptoms or breathing difficulties if inhaled.

Eye:	Irritation, conjunctivitis.
Skin:	Redness, inflammation.
Respiratory	Irritation, coughing, shortness of breath, chest tightness.

Indication of any immediate medical attention and special treatment needed

In the case of lung irritation: Primary treatment using corticoide spray, e.g. Auxilison spray, Pulmicort-dosage-spray. (Auxilison and Pulmicort are registered trademarks.)

5. FIRE FIGHTING MEASURES**Extinguishing media**

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

Special hazards arising from the substance or mixtureIn the event of fire, the following can be released: Nitrogen oxides (NOx), 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	EH40 WEL
Ethyl-2-cyanoacrylate 7085-85-0	0.2ppm TWA	----	0.3 ppm, 1.5 mg/m ³ STEL (15 min)

Exposure controls

- Appropriate Engineering Controls: If general ventilation is insufficient to maintain vapor concentration below established exposure limits, use protective downdraft exhaust ventilation.
- Individual protection measures
General protective and hygienic measures 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
- Eye/Face protection Safety glasses with side shields or chemical splash goggles.
- Skin protection Do not use PVC, rubber, cotton or nylon gloves.
- Hand 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.
- Respiratory protection If there is a potential to exceed exposure limits, use an approved respirator.
- 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**

Rapid exothermic polymerization will occur in the presence of water, amines, alkalis, oxidizing agents, alcohols.

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 monoxide and carbon dioxide. Nitrous oxides (NO_x).

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation	May cause irritation of respiratory tract
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	It is almost impossible to swallow as it rapidly polymerizes in the mouth.

Acute toxicity:

Chemical Name CAS-No	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl-2-cyanoacrylate 7085-85-0	>5000mg/kg (Rat)	>2000mg/kg (Rabbit)	----

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: None

IMGD Proper shipping name Not regulated**15. REGULATORY INFORMATION****International Inventories**

TSCA Complies

DSL/NDSL Complies

EINECS/ELINCS Not Listed

ENCS Complies

SUREHOLD® 6011 Medical Device CA Adhesive

Revision 2
Revision Date 30-June-2016

IECSC Complies
KECL Complies
PICCS Complies
AICS Complies
Chemical Safety Assessment: A chemical safety assessment has not been carried out.

Legend:

TSCA – United States Toxic Substance Control Act Section 8(b) Inventory
DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS – European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS – Japan Existing and New Chemical Substances
IECSC – China Inventory of Existing Chemical Substances
KECL – Korean Existing and Evaluated Chemical Substances
PICCS – Philippines Inventory of Chemicals and Chemical Substance
AICS – Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 313/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

CWA (Clear Water Act)

This product does not contain any substances regulated a pollutants pursuant to the Clear Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Now Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ETHYL-2-CYANOACRYLATE 7085-85-0	X	---	---

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

B3 – Combustible liquid, D2B – Toxic materials

16. OTHER INFORMATION

NFPA	Health hazards 2	Flammability 2	Instability 1	---
HMIS	Health hazards 2	Flammability 2	Physical hazards 1	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 Regulation (EC) 1272/2008 (CLP).