

Barristo Enterprises, Inc., dba SureHold®

SAFETY DATA SHEET

Complies with US Hazard Communication Standard (29 CFR 1910.1200)

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product Identifier Helios Light Cure Cyanoacrylate Adhesive, 2202, 22021, 22051, 22443

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

Flammable Liquid Category 4

Serious eye damage/ eye irritation Category 2B

Label elements:

Hazard pictogram: None

Single word: Warning

Emergency Overview: Bonds skin in seconds.
Combustible liquid.
Causes eye irritation.

Precautionary Statement – Prevention Keep away from heat, sparks, open flames, heat sources – no smoking.
Wash thoroughly after handling.

Wear protective gloves, eye protection and face protection

Precautionary Statement – Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If eye irritation persists get medical attention.

IF CASE OF FIRE: Use foam, dry chemical, or carbon dioxide to extinguish.

Precautionary Statement – Storage Store in a well-ventilated place. Keep cool.

Precautionary Statement – Disposal Dispose of contents/container according to Federal, State/Provincial, and local governmental regulations.

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).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Common Name/Synonyms	CAS-No	Concentration %
2-Methoxyethyl 2-Cyanoacrylate	----	27816-23-5	>90-<100% *

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

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

General advice	Avoid breathing gas/fumes/vapor/spray.
Inhalation:	IF INHALED: Move to fresh air. Consult doctor if complaint persists.
Skin contact:	IF ON SKIN: Immediately wash affected parts of the body with soap and water. Rinse thoroughly. Seek medical treatment and present this data sheet.
Eye contact:	IF IN EYES: If eye is bonded closed, release eye lashes with warm water by covering with a wet pad. Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Do not force eye open. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause any abrasive damage.
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.
Symptoms:	See Section 11.
Notes to physician:	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.

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 mixture

In 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 explosion 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: Keep away from amines.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Chemical Name	ACGIH TLV	OSHA PEL	AIHA WELL	OTHER
2-Methoxyethyl 2-Cyanoacrylate	None	None	None	0.2 ppm TWA

Exposure controls

Engineering Controls:

Use positive downdraft exhaust ventilation, if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limits.

Eye/Face protection

Safety glasses with side shields or chemical splash goggles.

Skin protection

Do not use PVC, rubber, cotton or nylon gloves.

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

Appearance:	Liquid
Odor:	Low odor
Odor threshold	Not available.
pH:	Not applicable.
Melting point/freezing point:	'----
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	150 – 300 cps.
VOC content:	< 2%; 20g/l (California SCAQMD Method 361B)
Explosive properties:	Product is not explosive.
Oxidizing properties:	Product is not oxidizing.

10. STABILITY AND REACTIVITY**Chemical stability**

Stable under recommended storage conditions.

Hazardous Reactions

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

Hazardous decomposition products

None

Incompatible materials

Water, amines, alkalis, oxidizing agents and alcohols.

Reactivity

Not available.

Conditions to avoid

Spontaneous polymerizations.

11. TOXICOLOGICAL INFORMATION**Relevant routes of exposure: Skin, Inhalation, Eyes****Potential Health Effects/Symptoms****Inhalation**

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

Skin contact

May cause skin irritation. Bonds skin in seconds. Cyanoacrylates have been reported to cause allergic reactions due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances, a large drop will burn the skin. Cured adhesive does not present a health hazard if bonded to the skin.

Eye contact

Irritating to the eyes. Causes excessive tearing. Eyelids may bond.

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 Health Effects
2-Methoxyethyl 2-cyanoacrylate	None	Irritant, Allergen

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Ethyl-2-cyanoacrylate 7085-85-0	No	No	No

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:	The components in this formulation do not meet the criteria for classification as PBT or vPvB.
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.
Appropriate methods of waste treatment of substance	Cured adhesive: Disposal of as water insoluble non-toxic solid chemical in authorized landfill or incinerate under controlled conditions.
Appropriate methods of waste treatment of packaging	After use: tubes, cartons, and bottles containing residual product should be disposed of as chemically contaminated waste in an authorized legal landfill site or incinerated. Disposal must be made according to official regulations.
Sewage disposal	Dispose according to local, province/state, country's governmental regulations.
Special precautions:	Not available.
Relevant community/national/regional provisions	Not available.

14. TRANSPORT INFORMATION

DOT (49 CFR)	Proper shipping name:	Combustible liquid n.o.s. (Cyanoacrylate ester)
	Hazard class or division:	Combustible Liquid
	Identification number:	NA 1993
	Package group:	III
IATA (ICAO)	Proper shipping name:	Aviation Regulated Liquid, N.O.S. (Cyanoacrylate Ester)
	Hazard class or division:	9
	Identification number:	UN 3334
	Packaging Group:	III
IMGD (IMO)	Proper shipping name:	Not regulated
	Hazard class or division:	None
	Identification number:	None
	Packaging group:	None

15. REGULATORY INFORMATION**United States Regulatory Information**

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substance Control Act Inventory.
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TSCA 12 (b) Export Notification	None above the reporting de minimis.
CERCLA/SARA Section 302 EHS:	None above the reporting de minimis.
CERCLA/SARA Section 311/312:	Immediate Health, Fire, Reactive.
CERCLA/SARA Section 313:	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372) Beta-Methoxyethyl Cyanoacrylate (CAS# 27816-23-5)
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 are 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

Prepared by: Barristo Enterprises, Inc.
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Other abbreviations

PBT: Persistent, Bioaccumulative, Toxic
vPvB: Very persistent and very bioaccumulative
LD50: Lethal dose, 50 percent
LC50: Lethal concentration, 50 percent

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 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).