

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Skin corrosion/irritation	H315 Causes skin irritation	Category 2
Serious 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	Avoid breathing dust/fumes/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection
Precautionary Statement -	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
Response	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.
Precautionary Statement – Storage	Store locked up.
Precautionary Statement – Disposal ther hazards: None if used properly.	Dispose of contents/container to an approved waste disposal plant.



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% *

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.
	and effect, both acute and delayed
, ,	r asthma symptoms or breathing difficulties if inhaled.
Eye:	Irritation, conjunctivitis.
Skin:	Redness, inflammation.
Respiratory	Irritation, coughing, shortness of breath, chest tightness.
	e medical attention and special treatment needed
spray. (Auxiloson an	ritation: Primary treatment using corticoide spray, e.g. Auxiloson spray, Pulmicort-dosage- d Pulmicort are registered trademarks.)
5. FIRE FIGHTING ME	ASURES
Extinguishing media	
Suitable extinguishing media	Alcohol-resistant foam, dry powder, carbon dioxide, water spray jet
Unsuitable extinguishing me	dia: High volume water jet.
	om the substance or mixture he following can be released: Nitrogen oxides (NOx), carbon monoxide (CO), carbon
In case of fire and/or contained breathing combustion and smo water according to o	
6. ACCIDENTAL REL	EASE MEASURES

Personal precautions, protective equipment and emergency procedures



Revision 2 Revision Date 07-January-2019

For non-emergency personnel:

Use personal protective clothing.

Ensure adequate ventilation. Avoid contact with eyes or skin.

For emergency responders: 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. Wash hands and face before eating.

Advice on general occupational hygiene:

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.

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
Individual protection measures General protective and hygienic measures Eye/Face protection	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. 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.
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9. PHYSICAL AND CHE	MICAL PROPERTIES	
Information on basic physic	al 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	1500-2500 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	

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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 (NOx).

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
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Ethyl-2-cyanoa 7085-85-0	acrylate	>5000mg/kg (Rat)	>2000mg/kg (Rabbit)	
Information of Symptoms	n toxicological effects No	information available		
Delayed and i	mmediate effects as we	Il as chronic effects from s	short and long-term expo	osure
Sensitization	No	information available		
Germ cell mut	layementy	information available		
Carcinogenic	ity Ac	cording to NTP, OSHA and I	ARC, the substance is not	carcinogen.
12. ECOLO	GICAL INFORMATI	ON		
ground water.	Do not allow uncontrolle nd degradability: ve potential:	ds (BOD and COD) are insig d leakage of product into the No information available No information available Cured adhesives are im	environment.	o drains/ surface water/
-	Γ and vPvB Assessment:	PBT: Not applicable. vPvB: Not applicable. No further relevant infor		
	SAL CONSIDERATION			
Waste treatm		5115		
Disposal of wa		Disposal should be in local laws and regulat	accordance with applicabl ions.	e regional, national and
Contaminated	packaging	Do not reuse containe	er.	
US EPA Wast	e Number	Not applicable		
Special precat	utions:	Not available.		
14. TRANS	PORT INFORMATI	ON		
DOT	Proper shipping nam			_
IATA	Proper shipping nam	e Aviation Regulated Liq	uid, N.O.S. (Cyanoacrylate	e Ester)
	UN/ID No.:	UN 3334		
	Hazardous Class:	9		
	Packaging Group:	None		
IMGD	Proper shipping nam	e Not regulated		

15. REGULATORY INFOR	MATION
United State Regulatory Information	ation:
TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act.
TSCA 12 (b) Export Notifications:	None above the reporting de minimis.
CERCLA/SARA Section 302 EHS:	None above the reporting de minimis.



CERCLA/SARA Section 311/312:	Immediate Health, Delayed 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 Proposition 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 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

NFPA	Health hazards 2	Flammability 2
HMIS	Health hazards 2	Flammability 2

Instability 1 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).