

2-Cyanoethyl acrylate Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 08/17/2022 Supersedes: 04/14/2004 Version: 1.0

SECTION 1: Identification 1.1. Identification	
Due de statement	
Product form : S	Substance
Trade name : 2	2-Cyanoethyl acrylate
CAS-No. : 1	106-71-8
Product code : (01829
Formula : 0	C6H7NO2
1.2. Recommended use and restrictions on us	Se
Recommended use : l	Use as laboratory reagent, Manufacture of substances
1.3. Supplier	
Supplier Polysciences 400 Valley Road Warrington, PA 18976 - United States T +1 215 343 6484 - F +1 215 343 0214 info@polysciences.com - www.polysciences.com	
1.4. Emergency telephone number	
	24-hour emergency phone number ChemTel 1-800-255-3924
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mixture	8
GHS US classification	
Acute toxicity (oral) Category 2 Acute toxicity (dermal) Category 2 Serious eye damage/eye irritation Category 1 Skin sensitization, category 1B	Fatal if swallowed Fatal in contact with skin Causes serious eye damage May cause an allergic skin reaction
2.2. GHS Label elements, including precaution	nary statements
GHS US labeling	
Hazard pictograms (GHS US) :	
Signal word (GHS US) : [Danger
Hazard statements (GHS US) : F	Fatal if swallowed or in contact with skin May cause an allergic skin reaction Causes serious eye damage
Precautionary statements (GHS US) : A	Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
2.3. Other hazards which do not result in class	sification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
	i ingredients

3.1. **Substances**

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Name	Product identifier	%	GHS US classification
2-Cyanoethyl acrylate (Main constituent)	(CAS-No.) 106-71-8	≤ 100	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 Eye Dam. 1, H318 Skin Sens. 1B, H317

Full text of hazard classes and H-statements : see section 16

ruii text	of nazard classes and H-statements : se	a section to
3.2.	Mixtures	
Not appl		
SECTI	ON 4: First-aid measures	
4.1.	Description of first aid measures	
First-ai	id measures general	: Call a physician immediately.
First-ai	id measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-ai	id measures after skin contact	: Wash skin with plenty of water. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-ai	id measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-ai	id measures after ingestion	: Rinse mouth. Call a physician immediately.
4.2.	Most important symptoms and effec	ts (acute and delayed)
Sympto	oms/effects after skin contact	: May cause an allergic skin reaction.
Sympto	oms/effects after eye contact	: Serious damage to eyes.
4.3.	Immediate medical attention and spe	ecial treatment, if necessary
Treat sy	mptomatically.	
SECTI	ON 5: Fire-fighting measures	
5.1.	Suitable (and unsuitable) extinguish	ing media
	le extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Specific hazards arising from the ch	
	dous decomposition products in case of	: Toxic fumes may be released.
fire		
5.3.	Special protective equipment and pr	ecautions for fire-fighters
Protect	tion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTI	ON 6: Accidental release meas	ures
6.1.	Personal precautions, protective equ	Jipment and emergency procedures
6.1.1.	For non-emergency personnel	
	ency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapors/spray.
6.1.2.	For emergency responders	
Protect	tive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Avoid re	elease to the environment.	
6.3.	Methods and material for containme	nt and cleaning up
Method	ds for cleaning up	: Take up liquid spill into absorbent material.
Other i	information	Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
-	ner information refer to section 13.	
SECTI	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
	utions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid breathing dust/fume/gas/mist/vapors/spray.
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	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.
.2. Conditions for safe storage, includin	ng any incompatibilities
Storage conditions	: Store at 4 deg. C. Store locked up. Store in a well-ventilated place. Keep cool.
ECTION 8: Exposure controls/pers	onal protection
.1. Control parameters	
2-Cyanoethyl acrylate (106-71-8)	
No additional information available	
.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
3.3. Individual protection measures/Pers	sonal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
Respiratory protection.	
In and, of insufficient ventilation, wear suitable	a reapiratory aguinment
In case of insufficient ventilation, wear suitable	e respiratory equipment
In case of insufficient ventilation, wear suitable Personal protective equipment symbol(s):	e respiratory equipment
	e respiratory equipment
Personal protective equipment symbol(s):	
Personal protective equipment symbol(s):	properties
Personal protective equipment symbol(s):	properties
Personal protective equipment symbol(s): ECTION 9: Physical and chemical post 1. Information on basic physical and content Physical state Appearance	Droperties hemical properties : Liquid : clear yellow liquid sweet.
Personal protective equipment symbol(s): EXAMPLE A Symbol Section 2.1. Information on basic physical and content of the physical state Appearance Color	Droperties hemical properties : Liquid : clear yellow liquid sweet. : No data available
Personal protective equipment symbol(s): EXAMPLE A Symbol Section 10 (Section 10)	broperties hemical properties : Liquid : clear yellow liquid sweet. : No data available : No data available
Personal protective equipment symbol(s): ECTION 9: Physical and chemical protection on basic physical and c Physical state Appearance Color Odor Odor threshold	Droperties hemical properties : Liquid : clear yellow liquid sweet. : No data available : No data available : No data available : No data available
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Personal protective equipment symbol(s): EXAMPLE A STATE OF STATE	broperties Liquid Liquid Clear yellow liquid sweet. No data available No tata available Not applicable
Personal protective equipment symbol(s): EXAMPLE A Symbol Section 2015 EXAMPLE A SYMBOL SEC	broperties Liquid : Liquid : clear yellow liquid sweet. : No data available : 169 °F F : 200 : No data available : Not applicable. : < ≤ 0.1 mm Hg
Personal protective equipment symbol(s): EXECTION 9: Physical and chemical protection on basic physical and complexity of the system of the s	broperties Liquid : Liquid : clear yellow liquid sweet. : No data available : Not data available : Not applicable. : < < 0.1 mm Hg
Personal protective equipment symbol(s): EXAMPLE A STATE OF STATE	broperties Liquid : Liquid : clear yellow liquid sweet. : No data available : 169 °F F : 200 : No data available : Not applicable. : < ≤ 0.1 mm Hg

Solubility

Molecular mass

: No data available

: 125.1

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Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactive	vity
10.1. Reactivity	
The product is non-reactive under normal co	nditions of use, storage and transport.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ns
No dangerous reactions known under norma	Il conditions of use.
10.4. Conditions to avoid	
None under recommended storage and hand	dling conditions (see section 7).
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition prod	ucts
Under normal conditions of storage and use	hazardous decomposition products should not be produced.
SECTION 11: Toxicological inform	nation
11.1. Information on toxicological effe	
Acute toxicity (oral)	: Fatal if swallowed.
Acute toxicity (dermal)	: Fatal in contact with skin.
Acute toxicity (inhalation)	: Not classified
2-Cyanoethyl acrylate (106-71-8)	
LD50 oral rat	136 µg/kg mg/kg
ATE US (oral)	0.136 mg/kg body weight
ATE US (dermal)	50 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
-	

Symptoms/effects after skin contact Symptoms/effects after eye contact : May cause an allergic skin reaction.

: Serious damage to eyes.

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SECT	SECTION 12: Ecological information		
12.1.	Toxicity		
Ecolog	ıy - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
12.2.	Persistence and degradability		
No addi	tional information available		
12.3.	Bioaccumulative potential		
No addi	tional information available		
12.4.	Mobility in soil		
No addi	tional information available		
12.5.	Other adverse effects		
No addi	tional information available		

3.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
ECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT	
Transport document description JN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) Hazard labels (DOT)	 UN2810 Toxic, liquids, organic, n.o.s., 6.1, III UN2810 Toxic, liquids, organic, n.o.s. 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132 III - Minor Danger 6.1 - Poison
	POISON
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx) DOT Special Provisions (49 CFR 172.102)	 241 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquid with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Tabl 2 for UN2672). T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"

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	Emergency Response Guide (ERG) Number	: 153
	Other information	: No supplementary information available.
	Transportation of Dangerous Goods	
	Transportation of Dangerous Goods	
	Not applicable	
	Transport by sea	
	Transport by sea	
	Transport document description (IMDG)	: UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III
	UN-No. (IMDG)	: 2810
	Proper Shipping Name (IMDG)	: TOXIC LIQUID, ORGANIC, N.O.S.
	Class (IMDG)	: 6.1 - Toxic substances
	Packing group (IMDG)	: III - substances presenting low danger
	Limited quantities (IMDG)	: 5L
	Air transport	
	Transport document description (IATA)	: UN 2810 Toxic liquid, organic, n.o.s., 6.1, III
	UN-No. (IATA)	: 2810
	Proper Shipping Name (IATA)	: Toxic liquid, organic, n.o.s.
	Class (IATA)	: 6.1 - Toxic Substances
	Packing group (IATA)	: III - Low danger

SECTION 15: Regulatory information	
15.1. US Federal regulations	
2-Cyanoethyl acrylate (106-71-8)	

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

2-Cyanoethyl acrylate	ə (106-71-8)
Listed on the Canadian	n NDSL (Non-Domestic Substances List)

EU-Regulations

National regulations

No additional information available

15.3. US State regulations

2-Cyanoethyl acrylate (106-71-8)	
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
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SDS US (GHS HazCom 2012)

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