

Section 1 Identification

Product identifiers

Product names: READYSET I

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

Identified uses: Cyanoacrylate adhesive For industrial use only

Details of the supplier of the safety data sheet

Freeman Manufacturing & Supply Company

1101 Moore Road, Avon, OH 44011

Phone: 1 800-321-8511

Email: contactus@freemansupply.com

Emergency telephone number

CHEMTREC 24 hour: (800) 424-9300

Section 2 Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Flammable Liquids, Category 4

Eye Irritation, Category 2A

Skin Irritation, Category 2

Skin Sensitization, Category 1

Specific Target Organ Toxicity, Single Exposure, Category 3 (Respiratory)

GHS Label Elements



Warning

Hazard Statements

H227 – Combustible Liquid

H315 – Causes skin irritation

H319 – Causes serious eye irritation

H317 – May cause an allergic skin reaction

H335 – May cause respiratory irritation

Precautionary Statements

Prevention: P261 – Avoid breathing dust/fume/mist/vapors/spray.

P264 – Wash hands (or other affected skin surfaces) thoroughly after handling.

P270 – Do not eat, drink, or smoke when using this product.

P273 – Avoid release to the environment

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Response: P305/P351/P338 – IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P301/P312 – IF SWALLOWED: Call a POISON CENTER or doctor

P302/P352 – IF ON SKIN: Wash with plenty of soap and water.

P333/P313 – If skin irritation or rash occurs get medical advice/attention.

Storage: P403 – Store in a well-ventilated place.

P410 – Protect from sunlight.

P411 – Store at temperatures not exceeding 25OC (75OF).

Disposal: P501 – Dispose of contents/containers in accordance with local/regional/national/international regulations.

Section 3 Composition/Information on Ingredients

Mixture

Hazardous Component	CAS Number	Concentration (%)
Ethyl-2-cyanoacrylate	7085-85-0	60-100

Section 4 First Aid Measures

General advice: Keep out of reach of children. Show this Safety Data Sheet to the medical attendant.
If inhaled: Move person into fresh air. Keep patient warm and at rest. If not breathing, give artificial respiration. Consult a physician after significant exposure.
In case of skin contact: Wash off immediately with soap and plenty of water. Call a physician if irritation develops or persists. Danger. Bonds skin and eyes in seconds.
In case of eye contact: Flush eyes immediately with water. Rinse under eyelids. Seek medical advice.
If swallowed: Seek medical attention. Do not induce vomiting without medical advice.

Section 5 Fire-Fighting Measures

Suitable Extinguishing Media: In case of fire, water spray, fog, dry chemical or CO2, or alcohol resistant foam.
Specific Hazards Arising from the Chemical: Fire may produce irritating, corrosive and/or toxic gases.
Hazardous Thermal: Decomposition products may include the following materials: Carbon dioxide, carbon monoxide, halogenated compounds.
Special Protective Equipment and Precautions for Firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, and rubber boots. In enclosed spaces, use self-contained breathing apparatus (SCBA) and protective clothing.
Flammability Classification: Combustible, Class IIIB estimated.

Section 6 Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Keep unnecessary personnel away. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. For large spill or leak wear self-contained breathing apparatus (SCBA) and appropriate PPE.
Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid releases to the environment. Retain and dispose of contaminated was water. Keep out of sewers and drains. Contact local authorities if case of spillage to drain/aquatic environment.
Clean-Up Methods and Materials: Absorb with an inert material and place in an appropriate container for disposal.

Section 7 Handling and Storage

Handling Precautions: Avoid breathing vapors. Use in a well-ventilated area. Wear rubber gloves (nitrile or butyl) and chemical resistant apron. Wear chemical splash goggles. Do not reuse empty containers.
Storage Precautions: Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Component	CAS Number	Value type	Control parameter / Permissible concentration	Basis
Ethyl-2-cyanoacrylate	7085-85-0	PEL	0.2 ppm 1.02 mg/m ³	CAL PEL
		TWA	0.2 ppm	ACGIH
		STEL	1 ppm	ACGIH

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below the recommended exposure limits.

Personal protective equipment

Eye/face protection: Use tightly fitting safety goggles.

Hand protection: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves: neoprene, nitrile rubber, butyl-rubber

Body protection: Prevent skin contact when handling material.

Respiratory protection: The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Safety Stations

Make emergency eyewash stations and washing facilities available in work area.

General Hygienic Practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance	Clear liquid
Odor	Characteristic, irritating
Odor threshold	1 ppm
pH	No data available
Melting Point / Freezing Point	-31°C (-24°F)
Initial Boiling Point	214°C (417°F)
Flash Point	93°C (199°F)
Evaporation rate	No data available
Flammability (solid, gas)	Not classified as a flammable hazard
Upper/lower flammability	No data available
Vapor Pressure	.2 mm Hg @ 77oC (171oF)
Vapor Density	No data available
Relative Density	1.043 g/cm ³
Partition Coefficient	(n-Octanol in Water) 0.776 Log POW (calculated value)
Auto-ignition temperature	485oC (905oF)
Viscosity	1,000 to 1,500 cP
Specific Gravity	1.07(8.9 lbs/gal)

Section 10 Stability and Reactivity

Reactivity: Product reacts with water, amines, alkalis and alcohols.

Chemical Stability: The product is stable.

Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous reactions will not occur. Exothermic polymerization in the presence of water, amines, alkalis, and alcohols.

Conditions to Avoid: Avoid exposure – obtain special instructions before use. Avoid all possible sources of ignition (spark or flame).

Materials to Avoid (Incompatibility): Water, amines, alkalis, alcohols.

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Other hazards: Reacts with considerable heat release with some curing agents.

Section 11 Toxicological Information

Acute oral toxicity	No data available on product Ethyl 2-CyanoAcrylate (CAS: 7085-85-0) LD50 > 5,000 mg/kg (oral, rat, 24 hr)
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin corrosion/irritation	Irritant to skin and mucous membranes
Serious eye damage/eye irritation	Vapors may be irritating to the eyes
Respiratory or skin sensitization	May cause an allergic skin reaction
Germ cell mutagenicity	No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

Reproductive Toxicity No data available

Specific Target Organ Toxicity

- **single exposure** Category 3 Respiratory.
- **repeated exposure** No data available

Section 12 Ecological Information

Ecotoxicity: This product in contact with water polymerizes and it is not possible to measure aquatic toxicity in fish, daphnia or algae..

Persistence and Degradability: Tests in aqueous or humid media with ethyl-2cyanoacrylate with the intent to determine effective concentrations cannot be performed due to technical reasons based on the chemical properties of the monomer. In the presence of moisture, ethyl-2-cyanoacrylate polymerizes within seconds (inherent property of ethyl-2-cyanoacrylate based instant glues.) Thus very low determined monomer concentrations in water represent a non-steady state situation from which a defined concentration can not be derived. Not Determined.

Section 12 Ecological Information

Bioaccumulative Potential: Tests in aqueous or humid media with ethyl-2-cyanoacrylate with the intent to determine effective concentrations cannot be performed due to technical reasons based on the chemical properties of the monomer. In the presence of moisture, ethyl-2-cyanoacrylate polymerizes within seconds (inherent property of ethyl-2-cyanoacrylate based instant glues.) Thus very low determined monomer concentrations in water represent a non-steady state situation from which a defined concentration can not be derived. Not Determined.

Mobility in Soil: Study is technically non-feasible. Test substance will polymerize with contact to soil or water immediately. Not Determined.

Other Adverse Effects: No known significant effects or critical hazards.

Section 13 Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recycle-able products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14 Transport Information

CFR:	Not Regulated
TDG:	Not Regulated
DOT:	Not Regulated
IATA:	UN3334, PGIII, Less than 500 ml not regulated
Marine Pollutant:	Yes

Section 15 Regulatory Information

U.S. Federal Regulations

United States – TSCA 12(b) – Chemical export notification: None required.
United States – TSCA 5(a)2 – Final significant new use rules: Not listed.
United States – TSCA 5(a)2 – Proposed significant new use rules: Not listed.
United States – TSCA 5(e) – Substances consent order: Not listed.
SARA 311/312 Chemical: Yes
SARA 313 (TRI reporting): Not regulated.
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List: Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.
Safe Drinking Water Act (SDWA): Not regulated.

State Regulations

California Proposition 65: None of the ingredients is listed.

International Regulations:

TSCA (Toxic Substances Control Act): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory Requirements.

Section 15 Regulatory Information

DSL (Canada Domestic Substance List): All components of this product are on the DSL (Canada Domestic Substance List) or are exempt from DSL.

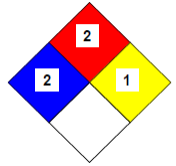
EINECS: Not Available.

Section 16 Other Information

HMIS (United States)

Health 2
Flammability 2
Reactivity 1
PPE X

NFPA:



WHMIS (Canada) : B2, C, D2B



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