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**Chem-Set UltraLok[®] SI-500 Series
CyanoAcrylate Adhesives**

Revision No.: 2
Revision Date: 12/03/2018

Section 1 IDENTIFICATION

Product Name: Chem-Set[™] UltraLok[®] SI-500 Series Cyanoacrylate Adhesives

Manufacturer: Chemical Concepts, Inc.

410 Pike Road

Huntingdon Valley, PA. 19006

Phone: 800.220.1966

Email: sales@chemical-concepts.com Website: www.chemical-concepts.com

Trade Name: Chem-Set[™] UltraLok[®] SI-500 Series Cyanoacrylate Adhesives

Materials Uses: Various CyanoAcrylates to Bond Various Substrates.

In Case of Emergency Contact INFOTRAC: 800.535.1035

Section 2 HAZARD IDENTIFICATION

GHS Classification:

CATEGORY	SIGNAL WORD	HAZARD STATEMENT(S)
Physical Flammable Liquids, Category 4	WARNING	H227 – Combustible Liquid
Health Skin Corrosion/Irritation, Category 2 Eye Irritation, Category 2A Skin Sensitization, Category 1 STOT SE, Category 3	WARNING WARNING WARNING WARNING	H315 – Causes skin irritation H319 – Causes serious eye irritation H317 – May cause an allergic skin reaction H335 – May cause respiratory irritation



GHS Precaution 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:

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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 if you feel unwell.

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 25°C (75°F).

Disposal:

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

Route of Entry: Eye contact, skin contact, inhalation, and ingestion.

Target Organs: Skin, eyes, respiratory tract, digestive tract, liver, kidney, olfactory and Central Nervous System (CNS).

Skin Contact: May cause irritation of the skin. Prolonged exposure may cause sensitization. Preexisting skin conditions may be aggravated by exposure to this material.

Eye Contact: May cause irritation and/or sensitization.

Respiratory Contact: Respiratory tract irritant. Prolonged exposure may result in dizziness, nausea, headache, and anesthetic effects. May cause sensitization. Preexisting respiratory conditions may be aggravated by exposure to this product. May cause CNS depression.

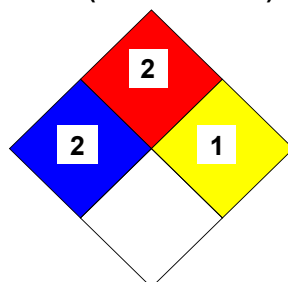
Ingestion: Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that the stomach vomit doesn't enter the lungs.

Part A RESIN:

HMIS (United States)

Health	2
Flammability	2
Reactivity	1
PPE	X

NFPA (United States)



WHMIS (Canada): B2, C, D2B



Section 3 COMPOSITION / INFORMATION ON INGREDIENTS

Name: Mixtures, Adhesives
Ethyl-2-CyanoAcrylate
Non-hazardous Ingredients

CAS #	% by Weight
7085-85-0	60 – 100%
Not Applicable	< 10%

Section 4 FIRST-AID MEASURES

Skin: Remove contaminated clothing. Flush skin with water, then wash affected areas with soap and water. If irritation develops, seek medical attention. Wash or dispose of clothing before reuse.

Eye: Flush eyes with water for 15 minutes. Remove contact lenses prior to water flush if possible. Seek immediate medical attention.

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Respiratory: Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Immediately get medical assistance.

Ingestion: Give patient water to dilute material in stomach. DO NOT induce vomiting. Seek immediate medical attention. If vomiting occurs naturally, have person lean forward to reduce risk of aspiration. DO NOT give anything by mouth to an unconscious person.

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.

Risk of Explosion due to Mechanical Impact: Not Applicable.

Risk of Explosion due to Static Discharge: Not Applicable.

Autoignition Temp.: Not Available

LEL: Not Available

UEL: Not Available

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 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

Control Parameters and Exposures:

Material Name:

Ethyl 2-CyanoAcrylate (CAS: 7085-85-0)

Exposure Limits:

TLV 1 mg/m³; 0.2 ppm

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Engineering Controls: Provide adequate ventilation (general or local exhaust). Ensure that a working eyewash and safety shower are in the work area.

Individual Protection Measures and PPE:

Eye / Face Protection: Wear safety glasses with side shields or splash goggles.

Skin Protection: Chemical resistant gloves (nitrile or butyl) and chemical resistant apron are recommended.

Respiratory Protection In case of insufficient ventilation, wear an approved (NIOSH) respirator with organic vapor cartridge and dust/mist pre-filter.

Thermal Hazards: None.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

	Ethyl 2-CyanoAcrylate
Appearance:	Thin liquid up to Formulated Gel
Color:	Clear
Odor:	Characteristic; Pungent
Odor Threshold:	1 ppm
pH:	Not Available
Melting Point / Freezing Point:	-31°C (-24°F)
Initial Boiling Point:	214°C (417°F)
Flash Point:	93°C (199°F)
Flammability:	Not Available
Lower Explosion Limit:	Not Available
Upper Explosion Limit:	Not Available
Vapor Pressure:	.2 mm Hg @ 77°C (171°F)
Vapor Density:	Not Available
Relative Density:	1.043 g/cm ³
Solubility in Water:	<=0.21 g/l
Partition Coefficient (n-Octanol in Water):	0.776 Log POW (calculated value)
Auto-Ignition Temperature:	485°C (905°F)
Decomposition Temperature:	Not Available
Viscosity (Dynamic CPS/mPa-s):	5 to 10,000 CPS
Percent Volatile:	Not Available
Specific Gravity:	1.07(8.9 lbs/gal)

Section 10 STABILITY AND REACTIVITY

Reactivity: Product react 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

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Acute Toxicity to Animals:

Ethyl 2-CyanoAcrylate (CAS: 7085-85-0) LD50 > 5,000 mg/kg (oral, rat, 24 hr)
LD50 > 2,000 mg/kg (dermal, rabbit, 96 hr)

Conclusion/Summary: Not Available

Acute Toxicity to Humans: This product has not been tested for human effects. No additional information.
Chronic Toxicity to Animals: This product has not been tested for animal effects. No additional information.
Chronic Toxicity to Humans: This product has not been tested for human effects. No additional information.

Irritation/Corrosion: Not Corrosive.

Eye Damage / Irritation: Causes serious eye irritation.

Respiratory Sensitization: Irritating to respiratory system.

Skin Sensitization: Skin Contact – May cause an allergic reaction.

Ingestion: Not Available.

Mutagenicity: Not Available.

Carcinogenicity: Not Available.

Reproductive Toxicity: Not Available.

Teratogenic Effects: Not Available.

STOST- Single Exposure: Category 3.

STOST – Repeated Exposure: Not Available.

Aspiration Hazard: Not 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.

Bioaccumulative Potential: 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.

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

Disposal Methods:

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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 Classification: Not Regulated

IATA: UN3334, PGIII, Less than 500 ml not regulated

IMO:

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

Classification Hazard Categories: Immediate (acute) health hazard

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.

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

International Regulations:

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.

WHMIS: B2, C, D2B.



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Section 16 OTHER INFORMATION

Changes to This Revision: December 3, 2018

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Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named manufacturer nor any of its subsidiaries assumes any liability whatsoever for accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

END OF SDS DOCUMENT

