

Material Safety Data Sheet

Section 1. Product Identification and Use

Product Name - Trade Name **423-9520 ACRYLLAK CLEAR FLAT**

Supplier - Manufacturer **Chemcraft International Inc.,**

155 Rose Glen Road North
P.O. Box 458
Port Hope, ON.
Canada L1A 3Z3

Telephone (905) 885-6388 Fax (905) 885-5097

In case of Emergency (905) 885-6388, (800) 263-7951

For Transport Emergency or After Hours

CANUTEC (613) 996-6666

Code 423-9520
Synonym ACRYLLAK CLEAR FLAT
Chemical Name Not applicable.
Chemical Family Synthetic polymer in water and organic solvent.
(Paint.)
Chemical Formula Not applicable.
Material Uses Coatings: Surface coatings and finishes.
Product Identification Number (PIN) Not regulated.

Section 2. Hazardous Ingredients

Exposure Limits

Name	CAS #	% by Weight	LC ₅₀ /LD ₅₀	TLV/PEL
N-Methyl pyrrolidone	872-50-4	1.6624	ORAL (LD50): Acute: 4200 mg/kg [Rat]. 5130 mg/kg [Mouse]. DERMAL (LD50): Acute: 8000 mg/kg [Rabbit].	Not available.
Diethylene glycol monoethyl ether	111-90-0	4.75	ORAL (LD50): Acute: 5500 mg/kg [Rat]. 3670 mg/kg [Guinea pig]. 6301 mg/kg [Mouse]. DERMAL (LD50): Acute: 8500 mg/kg [Rabbit]. 9143 mg/kg [Rabbit]. 6000 mg/kg [Rat].	Not available.

Trace impurities and additional material names not listed above may appear in other sections of this MSDS. These materials may be listed for toxicological concerns, local compliance, or other reasons.

Section 3. Physical Data

Physical State and Appearance Liquid.

Color Light. **Odor** Not available. **Taste** Not available.

Molecular Weight Not applicable.

pH (1% soln/water) Basic.

Boiling Point The lowest known value is 100°C (212°F) (Water). Weighted average: 116.25°C (241.3°F)

Melting Point May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -9.92°C (14.1°F)

Critical Temperature Not available.

Specific Gravity 1.06 (Water = 1)

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Vapor Pressure	The highest known value is 2.3 kPa (17.2 mmHg) (at 20°C) (Water). Weighted average: 2.06 kPa (15.45 mmHg) (at 20°C)
Vapor Density	The highest known value is 13.8 (Air = 1) (Ethanol, 2-butoxy-, phosphate (3:1)). Weighted average: 2.02 (Air = 1)
Volatility	Not available.
Odor Threshold	Not available.
Water/Oil Dist. Coeff.	Not available.
Ionicity (in Water)	Not available.
Dispersion Properties	Is not dispersed in cold water, hot water. See solubility in methanol, diethyl ether, acetone.
Solubility	Easily soluble in methanol, acetone. Partially soluble in diethyl ether. Insoluble in cold water, hot water.

Section 4. Fire and Explosion Hazard

The Product is:	Non-flammable.
Fire Hazards in Presence of Various Substances	Not applicable.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Non-flammable aqueous emulsion. After water evapourates, remaining material will burn.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Auto-Ignition Temperature	Not applicable.
Products of Combustion	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...), phosphates.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Special Remarks on Explosion Hazards	Not available.

Section 5. Reactivity Data

Stability	The product is stable.
Decomposition products	Not available.
Conditions of Instability	Not available.
Incompatibility with various substances	Slightly reactive to reactive with metals.
Corrosivity	Not available.
Special Remarks on Reactivity	Hygroscopic; keep container tightly closed. (Ethanol, 2-(2-ethoxyethoxy)-)
Special Remarks on Corrosivity	CORROSIVE. (Ammonia anhydrous)

Section 6. Toxicological Properties

Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 3670 mg/kg [Guinea pig]. (Ethanol, 2-(2-ethoxyethoxy)-). Acute dermal toxicity (LD50): 6000 mg/kg [Rat]. (Ethanol, 2-(2-ethoxyethoxy)-).
Effects of Acute Exposure	Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (corrosive, permeator). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

Chronic Effects on Humans	<p>CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH [2-Pyrrolidinone, 1-methyl-]. Classified 4 (Probably not for human.) by IARC [Ethanamine, N,N-diethyl-]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethanamine, N,N-diethyl-]. Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC, None. by OSHA [Ethanol, 2-(2-ethoxyethoxy)-]. Classified 4 (Probably not for human.) by IARC [Silica gel, pptd., cryst.-free].</p> <p>MUTAGENIC EFFECTS: Not available.</p> <p>TERATOGENIC EFFECTS: Teratogenic NOAEL [89 ppm] [2-Pyrrolidinone, 1-methyl-].</p> <p>DEVELOPMENTAL TOXICITY: Not available.</p> <p>The substance is toxic to the nervous system.</p> <p>Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.</p>
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Lacrymator. (Ethanamine, N,N-diethyl-)
Special Remarks on Other Toxic Effects on Humans	Material is irritating to mucous membranes and upper respiratory tract. (Silica gel, pptd., cryst.-free)
Exposure Limits	Not available.

Section 7. Preventive Measures

Personal Protection	Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Chemical resistant gloves, such as Norfoil should be used when handling this product. Please consult a Glove Manufacturer for alternate choices. Boots.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Chemical resistant gloves, such as Norfoil should be used when handling this product. Please consult a Glove Manufacturer for alternate choices. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.
Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal. If necessary: Neutralize the residue with a dilute solution of acetic acid.
Large Spill	Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Precautions	Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.
TDG Classification	-
PIN	Not regulated. PG:
Special Provisions for Transport	
Federal and State Regulations	<p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: 2-Pyrrolidinone, 1-methyl-</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: 2-Pyrrolidinone, 1-methyl-</p> <p>Illinois chemical safety act: Ethanamine, N,N-diethyl-</p> <p>New York release reporting list: Ethanamine, N,N-diethyl-</p> <p>Rhode Island RTK hazardous substances: Ammonia anhydrous; Ethanamine, N,N-diethyl-</p> <p>Pennsylvania RTK: Ammonia anhydrous: (environmental hazard); Ammonium hydroxide ((NH₄)(OH)); 2-Pyrrolidinone, 1-methyl-; Ethanamine, N,N-diethyl-; Ethanol, 2-(2-butoxyethoxy)-; Ethanol, 2-butoxy-</p> <p>Florida: Ammonia anhydrous; 2-Pyrrolidinone, 1-methyl-; Ethanamine, N,N-diethyl-</p> <p>Minnesota: Ammonia anhydrous; 2-Pyrrolidinone, 1-methyl-; Ethanamine, N,N-diethyl-</p> <p>Massachusetts RTK: Ammonia anhydrous; Ammonium hydroxide ((NH₄)(OH)); 2-Pyrrolidinone,</p>

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1-methyl-; Ethanamine, N,N-diethyl-
 New Jersey: Ammonia anhydrous; 2-Pyrrolidinone, 1-methyl-; Ethanamine, N,N-diethyl-; Ethanol,
 2-(2-butoxyethoxy)-; Ethanol, 2-butoxy-
 New Jersey spill list: Ammonia anhydrous
 TSCA 8(b) inventory: Ethanamine, N,N-diethyl-; Ethylene glycol monobutyl ether
 TSCA 8(d) H and S data reporting: Ethanamine, N,N-diethyl-
 SARA 302/304/311/312 extremely hazardous substances: Ammonia anhydrous
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Ammonium hydroxide
 ((NH₄)(OH)); Ethylene glycol monobutyl ether: Immediate (Acute) Health Hazard, Delayed (Chronic)
 Health Hazard
 SARA 313 toxic chemical notification and release reporting: Ammonium hydroxide ((NH₄)(OH)) 0.41%;
 2-Pyrrolidinone, 1-methyl- 1.66236%; Ethylene glycol monobutyl ether 0.36%
 CERCLA: Hazardous substances.: Ammonia anhydrous; 2-Pyrrolidinone, 1-methyl-; Ethanamine,
 N,N-diethyl-: 5000 lbs. (2268 kg);
 OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Regulations**Other Classifications**

WHMIS (Canada) **Class D-2A: Material causing other toxic effects (VERY TOXIC).**
Class D-2B: Material causing other toxic effects (TOXIC).

HCS (U.S.A.) Class: Target organ effects.
 Class: Corrosive material

Hazardous Material Information System (U.S.A.)	Health Hazard	* 3
	Fire Hazard	0
	Reactivity	0
	Personal Protection	

National Fire Protection Association (U.S.A.)	Health	3
	Fire Hazard	0
	Reactivity	0
	Specific Hazard	

Section 8. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact Wash with soap and water. Get medical attention if irritation develops.

Hazardous Skin Contact Not available.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Hazardous Inhalation Not available.

Ingestion Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Hazardous Ingestion Not available.

Section 9. Preparation Information

References -Manufacturers Material Safety Data Sheets.

Other Special Considerations Not available.

Related Information This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.

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Preparation Information **Validated by C.M. Kelly on 11/3/2004.**

Verified by C.M. Kelly.

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Information Contact

Prepared by the Health, Safety and Environment Department,
Chemcraft International Inc., P.O. Box 458, 155, Rose Glen Road North, Port Hope, ON. Canada.
Phone: 905 885-6388
Fax: 905 885-5097

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