

# Material Safety Data Sheet

## Section 1. Product Identification and Use

Product Name - Trade Name **423-9520 ACRYLLAK**  
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 <sub>50</sub> /LD <sub>50</sub>   | TLV/PEL        |
|-----------------------------------|----------|-------------|--|----------------|
| N-Methyl pyrrolidone              | 872-50-4 | 1-5         | ORAL (LD50): Acute: 4200 mg/kg [Rat]. 5130 mg/kg [Mouse].<br>DERMAL (LD50): Acute: 8000 mg/kg [Rabbit].  | Not available. |
| Diethylene glycol monoethyl ether | 111-90-0 | 1-5         | ORAL (LD50): Acute: 5500 mg/kg [Rat.]. 3670 mg/kg [Guinea pig].<br>6301 mg/kg [Mouse]. DERMAL (LD50): Acute: 8500 mg/kg [Rabbit.]. 9143 mg/kg [Rabbit].<br>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: -9.93°C (14.1°F)  
**Critical Temperature** Not available.  
**Specific Gravity** 1.06 (Water = 1)

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| <b>Vapor Pressure</b>         | 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) |
| <b>Vapor Density</b>          | The highest known value is 13.8 (Air = 1) (Ethanol, 2-butoxy-, phosphate (3:1)). Weighted average: 2.02 (Air = 1)   |
| <b>Volatility</b>             | Not available.  |
| <b>Odor Threshold</b>         | Not available.  |
| <b>Water/Oil Dist. Coeff.</b> | Not available.  |
| <b>Ionicity (in Water)</b>    | Not available.  |
| <b>Dispersion Properties</b>  | Is not dispersed in cold water, hot water.<br>See solubility in methanol, diethyl ether, acetone.                   |
| <b>Solubility</b>             | Easily soluble in methanol, acetone.<br>Partially soluble in diethyl ether.<br>Insoluble in cold water, hot water.  |

#### **Section 4. Fire and Explosion Hazard**

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

#### **Section 5. Reactivity Data**

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

#### **Section 6. Toxicological Properties**

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| <b>Routes of Entry</b>           | Absorbed through skin. Eye contact. Inhalation. Ingestion.  |
| <b>Toxicity to Animals</b>       | Acute oral toxicity (LD50): 3670 mg/kg [Guinea pig]. (Ethanol, 2-(2-ethoxyethoxy)-).<br>Acute dermal toxicity (LD50): 6000 mg/kg [Rat]. (Ethanol, 2-(2-ethoxyethoxy)-).   |
| <b>Effects of Acute Exposure</b> | 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. |

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| <b>Chronic Effects on Humans</b>                        | <p><b>CARCINOGENIC EFFECTS:</b> 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><b>MUTAGENIC EFFECTS:</b> Not available.</p> <p><b>TERATOGENIC EFFECTS:</b> Teratogenic NOAEL [89 ppm] [2-Pyrrolidinone, 1-methyl-].</p> <p><b>DEVELOPMENTAL TOXICITY:</b> 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> |
| <b>Special Remarks on Toxicity to Animals</b>           | Not available.   |
| <b>Special Remarks on Chronic Effects on Humans</b>     | Lacrymator. (Ethanamine, N,N-diethyl-)   |
| <b>Special Remarks on Other Toxic Effects on Humans</b> | Material is irritating to mucous membranes and upper respiratory tract. (Silica gel, pptd., cryst.-free)   |
| <b>Exposure Limits</b>                                  | Not available.   |

## Section 7. Preventive Measures

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| <b>Personal Protection</b>                          | 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.  |
| <b>Personal Protection in Case of a Large Spill</b> | 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.  |
| <b>Engineering Controls</b>                         | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.  |
| <b>Small Spill</b>                                  | Absorb with an inert material and put the spilled material in an appropriate waste disposal. If necessary: <b>Neutralize the residue with a dilute solution of acetic acid.</b>   |
| <b>Large Spill</b>                                  | 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. <b>Neutralize the residue with a dilute solution of acetic acid.</b> Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.  |
| <b>Waste Disposal</b>                               | Waste must be disposed of in accordance with federal, state and local environmental control regulations.  |
| <b>Precautions</b>                                  | 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.  |
| <b>Storage</b>                                      | Keep container tightly closed. Keep container in a cool, well-ventilated area.  |
| <b>TDG Classification</b>                           | -   |
| <b>PIN</b>  | Not regulated. <b>PG:</b>   |
| <b>Special Provisions for Transport</b>             |   |
| <b>Federal and State Regulations</b>                | <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 ((NH<sub>4</sub>)(OH)); 2-Pyrrolidinone, 1-methyl-; Ethanamine, N,N-diethyl-</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 ((NH<sub>4</sub>)(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-  
 New Jersey spill list: Ammonia anhydrous  
 TSCA 8(b) inventory: Ammonia anhydrous; 2-Pyrrolidinone, 1-methyl-; Ethanamine, N,N-diethyl-;  
 Ethylene glycol monobutyl ether  
 TSCA 5(e) substance consent order: 2-Pyrrolidinone, 1-methyl-  
 TSCA 8(d) H and S data reporting: Ethanamine, N,N-diethyl-  
 TSCA 12(b) one time export: 2-Pyrrolidinone, 1-methyl-  
 TSCA 12(b) annual export notification: 2-Pyrrolidinone, 1-methyl-  
 SARA 302/304/311/312 extremely hazardous substances: Ammonia anhydrous  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Ammonium hydroxide ((NH<sub>4</sub>)(OH)); Ethylene glycol monobutyl ether: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard  
 SARA 313 toxic chemical notification and release reporting: Ammonium hydroxide ((NH<sub>4</sub>)(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);

**Other Regulations**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**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

|   |                            |     |
|---|----------------------------|-----|
| <b>Hazardous Material Information System (U.S.A.)</b> | <b>Health Hazard</b>       | * 3 |
|   | <b>Fire Hazard</b>         | 0   |
|   | <b>Reactivity</b>          | 0   |
|   | <b>Personal Protection</b> |     |
| <b>National Fire Protection Association (U.S.A.)</b>  | <b>Health</b>              | 3   |
|   | <b>Fire Hazard</b>         | 0   |
|   | <b>Reactivity</b>          | 0   |
|   | <b>Specific Hazard</b>     |     |

**Section 8. First Aid Measures**

|                               |   |
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| <b>Eye Contact</b>            | 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.  |
| <b>Skin Contact</b>           | Wash with soap and water. Get medical attention if irritation develops.   |
| <b>Hazardous Skin Contact</b> | Not available.  |
| <b>Inhalation</b>             | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.  |
| <b>Hazardous Inhalation</b>   | Not available.  |
| <b>Ingestion</b>              | 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. |
| <b>Hazardous Ingestion</b>    | Not available.  |

**Section 9. Preparation Information**

|                                     |   |
|-------------------------------------|---|
| <b>References</b>                   | -Manufacturers Material Safety Data Sheets.   |
| <b>Other Special Considerations</b> | Not available.  |
| <b>Related Information</b>          | This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.  |
| <b>Preparation Information</b>      | <b>Validated by S.Bice on 5/18/2004.</b><br><b>Verified by S.Bice.</b><br><b>Printed 6/24/2004.</b>   |
| <b>Information Contact</b>          | Prepared by the Health, Safety and Environment Department,<br>Chemcraft International Inc., P.O. Box 458, 155, Rose Glen Road North, Port Hope, ON. Canada.<br>Phone: 905 885-6388<br>Fax: 905 885-5097 |

**Notice to Reader**

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