

Material Safety Data Sheet

Section 1. Product Identification and Use

Product Name - Trade Name **151-280 POLY FLOW ADDITIVE**

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 151-280

Synonym POLY FLOW ADDITIVE

Chemical Name Not applicable.

Chemical Family Synthetic polymer in organic solvent. (Polymer.)

Chemical Formula Not applicable.

Material Uses Coatings: Surface coatings and finishes.

Product Identification Number (PIN) 1263 PAINT

Section 2. Hazardous Ingredients

Exposure limits

Name	CAS #	% by Weight	LC ₅₀ /LD ₅₀	TLV/PEL
Styrene	100-42-5	70 - 100	ORAL (LD50): Acute: 2820 mg/kg [Rat].	OSHA (Canada). TWA: 100 ppm ACGIH (Canada, 2000). TWA: 200 ppm STEL: 40 ppm
Acetone	67-64-1	1 - 5	ORAL (LD50): Acute: 5800 mg/kg [Rat]. DERMAL (LD50): Acute: 20000 mg/kg [Rabbit.].	ACGIH (Canada, 1997). TWA: 500 ppm STEL: 750 ppm TWA: 1188 mg/m ³ STEL: 1782 mg/m ³

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 Not available. Odor Not available. Taste Not available.

Molecular Weight Not applicable.

pH (1% soln/water) Not available.

Boiling Point The lowest known value is 56.2°C (133.2°F) (2-Propanone). Weighted average: 140.24°C (284.4°F)

Melting Point May start to solidify at -31°C (-23.8°F) based on data for: Benzene, ethenyl-. Weighted average: -34.58°C (-30.2°F)

Critical Temperature Not available.

Specific Gravity Weighted average: 0.93 (Water = 1)

Continued on Next Page

Vapor Pressure	The highest known value is 24.1 kPa (181 mm Hg) (at 20°C) (2-Propanone). Weighted average: 2 kPa (15 mm Hg) (at 20°C)
Vapor Density	The highest known value is 3.6 (Air = 1) (Benzene, ethenyl-). Weighted average: 3.51 (Air = 1)
Volatility	Not available.
Odor Threshold	The lowest known value is 0.1 ppm (Benzene, ethenyl-) Weighted average: 0.21 ppm
Water/Oil Dist. Coeff.	The product is more soluble in water.
Ionicity (in Water)	Not available.
Dispersion Properties	See solubility in water, methanol, diethyl ether, n-octanol, acetone.
Solubility	Easily soluble in methanol, diethyl ether, acetone. Soluble in cold water, hot water. Partially soluble in n-octanol.

Section 4. Fire and Explosion Hazard

The Product is:	Flammable.
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames, sparks and static discharge. Flammable in presence of heat.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Special Remarks on Fire Hazards	FLAMMABLE. (2-Propanone)
Flash Points	The lowest known value is Closed cup: -18°C (-0.4°F). (T.C.C.). (2-Propanone)
Flammable Limits	The greatest known range is Lower: 2.6% Upper: 12.8% (2-Propanone)
Auto-Ignition Temperature	The lowest known value is 465°C (869°F) (2-Propanone).
Products of Combustion	These products are carbon oxides (CO, CO ₂).
Explosion Hazards in Presence of Various Substances	Highly explosive in presence of open flames, sparks and static discharge.
Special Remarks on Explosion Hazards	Not available.

Section 5. Reactivity Data

Stability	The product is stable.
Decomposition products	Not available.
Conditions of Instability	Avoid contact with oxidizing agents. (Benzene, ethenyl-)
Incompatibility with various substances	Highly reactive with oxidizing agents. Reactive with acids, alkalis.
Corrosivity	Not available.
Special Remarks on Reactivity	High temperatures, inhibitor depletion, accidental impurities, exposure to radiation, oxidizers may cause spontaneous reaction generating heat and or pressure. Closed containers may rupture or explode during runaway polymerization. (Benzene, ethenyl-)
Special Remarks on Corrosivity	Not available.

Section 6. Toxicological Properties

Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 2820 mg/kg [Rat]. (Benzene, ethenyl-). Acute dermal toxicity (LD50): 20000 mg/kg [Rabbit.]. (2-Propanone). Acute toxicity of the vapor (LC50): 2770 ppm 4 hour(s) [Rat]. (Benzene, ethenyl-).
Effects of Acute Exposure	Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Continued on Next Page

Chronic Effects on Humans	<p>CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC [Benzene, ethenyl-]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Benzene, ethenyl-]. Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC, None. by OSHA [2-Propanone]. Classified D (Not classifiable for human or animal.) by EPA [2-Propanone].</p> <p>MUTAGENIC EFFECTS: Not available.</p> <p>TERATOGENIC EFFECTS: Classified None. for human [2-Propanone].</p> <p>DEVELOPMENTAL TOXICITY: Not available.</p> <p>The substance is toxic to blood, kidneys, lungs, liver.</p> <p>Repeated or prolonged exposure to the substance can produce target organs damage.</p>
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Animal embryotoxic. Postnatal development injury in animal. Menstrual disorders in human. Human: passes the placental barrier, detected in maternal milk. (Benzene, ethenyl-)
Special Remarks on Other Toxic Effects on Humans	Material is irritating to mucous membranes and upper respiratory tract. (2-Propanone)
Exposure Limits	Not available.

Section 7. Preventive Measures

Personal Protection	Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. 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. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Precautions	Keep locked up. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. 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. Keep away from incompatibles such as oxidizing agents, acids, alkalis.
Storage	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
TDG Classification	3
PIN	1263 PAINT PG: II
Special Provisions for Transport	-
Federal and State Regulations	<p>WARNING: This product contains chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm: Benzene</p> <p>WARNING: This product contains chemical(s) known to the State of California to cause reproductive harm (male): Benzene</p> <p>WARNING: This product contains chemical(s) known to the State of California to cause birth defects or other reproductive harm.: Benzene</p> <p>WARNING: This product contains chemical(s) known to the State of California to cause cancer.: Benzene</p> <p>New York release reporting list: Benzene, ethenyl-</p> <p>Pennsylvania RTK: Benzene, ethenyl-; 1,2,4-Trimethylbenzene</p> <p>Florida: Benzene, ethenyl-</p> <p>Minnesota: Benzene, ethenyl-</p>

Continued on Next Page

Massachusetts RTK: Benzene, ethenyl-
 New Jersey: Benzene, ethenyl-; 1,2,4-Trimethylbenzene
 TSCA 8(b) inventory: Benzene, ethenyl-
 CERCLA: Hazardous substances.: Benzene, ethenyl-: 1000 lbs. (453.6 kg); 2-Propanone:
 5000 lbs. (2268 kg);

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

Other Classifications

WHMS (Canada)	Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-2A: Material causing other toxic effects (VERY TOXIC). Class D-2B: Material causing other toxic effects (TOXIC).
HCS (U.S.A.)	Flammable liquid Irritating material Target organ effects

Hazardous Material Information System (U.S.A.)	Health Hazard	* 1
	Fire Hazard	3
	Reactivity	0
	Personal Protection	G

National Fire Protection Association (U.S.A.)	Health	0
	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. Cold water may be used. Get medical attention.

Skin Contact Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.

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 Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.

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.

Preparation Information Validated by Florendo Tarnate on 9/16/2005.

Verified by Florendo Tarnate.

Printed 9/16/2005.

Continued on Next Page

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

Notice to Reader

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