

Material Safety Data Sheet

Section 1. Product Identification and Use

Product Name - Trade Name **151-550 P&V REMOVER HV**

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 151-550

Synonym P&V REMOVER HV

Chemical Name Not applicable.

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

Chemical Formula Not applicable.

Material Uses Coatings: Surface coatings and finishes.

Product Identification Number (PIN) 2810 TOXIC LIQUID, ORGANIC, N.O.S. (Methylene chloride)

Section 2. Hazardous Ingredients

Exposure Limits

Name	CAS #	% by Weight	LC ₅₀ /LD ₅₀	TLV/PEL
Light aromatic naphtha	64742-95-6	1-5	ORAL (LD50): Acute: 6960 mg/kg [Rat].	ACGIH (Canada). TWA: 123 mg/m ³
Methyl alcohol	67-56-1	10-30	ORAL (LD50): Acute: 6200 mg/kg [Rat]. 5600 mg/kg [Rat]. DERMAL (LD50): Acute: 15800 mg/kg [Rabbit].	OSHA (Canada). TWA: 200 ppm ACGIH (Canada, 2000). TWA: 200 ppm STEL: 250 ppm
d-Limonene	5989-27-5	0.1-1	ORAL (LD50): Acute: 4400 mg/kg [Rat].	Not available.
Methylene chloride	75-09-2	60-100	ORAL (LD50): Acute: 1987 mg/kg [Mouse]. 2524 mg/kg [Rat]. DERMAL (LD50): Acute: 4650 mg/kg [Rabbit].	ACGIH (Canada). TWA: 50 ppm STEL: 500 ppm OSHA (Canada). TWA: 500 ppm CEIL: 1000 ppm
Solvent naphtha (petroleum), medium aliph.	64742-88-7	1-5	Not available.	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 Not available. Odor Not available. Taste Not available.

Molecular Weight Not applicable.

pH (1% soln/water) Neutral.

Boiling Point The lowest known value is 39.8°C (103.6°F) (Methane, dichloro-). Weighted average: 46.32°C (115.4°F)

Continued on Next Page

Melting Point	May start to solidify at -53°C (-63.4°F) based on data for: Solvent naphtha (petroleum), light arom.. Weighted average: -96°C (-140.8°F)
Critical Temperature	Not available.
Specific Gravity	Weighted average: 1.16 (Water = 1)
Vapor Pressure	The highest known value is 46.5 kPa (348.8 mmHg) (at 20°C) (Methane, dichloro-). Weighted average: 39.87 kPa (299.05 mmHg) (at 20°C)
Vapor Density	The highest known value is 4.1 (Air = 1) (Solvent naphtha (petroleum), light arom.). Weighted average: 2.64 (Air = 1)
Volatility	Not available.
Odor Threshold	The lowest known value is 214 ppm (Methane, dichloro-)
Water/Oil Dist. Coeff.	The product is much more soluble in octanol.
Ionicity (in Water)	Not available.
Dispersion Properties	Is not dispersed in cold water, hot water. See solubility in methanol, diethyl ether, n-octanol.
Solubility	Easily soluble in methanol, diethyl ether, n-octanol. Insoluble in cold water, hot water.

Section 4. Fire and Explosion Hazard

The Product is:	Flammable.
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames, sparks and static discharge.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Never direct a water jet in the container in order to prevent any splashing of the product which could cause spreading of the fire. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Special Remarks on Fire Hazards	Explosive in the form of vapor when exposed to heat or flame. Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition, it emits acrid smoke and irritating fumes. (Methanol)
Flash Points	The lowest known value is Closed cup: 12°C (53.6°F). (Tagliabue.). Open cup: 15.6°C (60.1°F). (Tagliabue). (Methanol)
Flammable Limits	The greatest known range is LOWER: 6% UPPER: 36.5% (Methanol)
Auto-Ignition Temperature	The lowest known value is 463.89°C (867°F) (Methanol).
Products of Combustion	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. 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	These products are halogenated compounds, hydrogen chloride.
Conditions of Instability	Not available.
Incompatibility with various substances	Reactive with oxidizing agents, metals, alkalis.
Corrosivity	Not available.
Special Remarks on Reactivity	Incompatible with peroxides. (Benzene)
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): 1987 mg/kg [Mouse]. (Methane, dichloro-). Acute dermal toxicity (LD50): 4650 mg/kg [Rabbit]. (Methane, dichloro-). Acute toxicity of the vapor (LC50): 10200 ppm 4 hour(s) [Rat.]. (Solvent naphtha (petroleum), light arom.).
Effects of Acute Exposure	Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (sensitizer, permeator). Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC, None. by OSHA [Methanol]. Classified 2B (Possible for human.) by IARC [Methane, dichloro-]. Classified A2 (Suspected for human.) by ACGIH [Methane, dichloro-]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN] [Methane, dichloro-]. The substance is toxic to kidneys, the nervous system, the reproductive system, liver, cardiovascular system. Repeated or prolonged exposure to the substance can produce target organs damage.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Human: passes through the placenta, excreted in maternal milk. (Methane, dichloro-)
Special Remarks on Other Toxic Effects on Humans	Narcotic. (Methanol)
Exposure Limits	Not available.

Section 7. Preventive Measures

Personal Protection	Splash goggles. 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	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
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 get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.
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, metals, 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	6.1
PIN	2810 TOXIC LIQUID, PG: III ORGANIC, N.O.S. (Methylene chloride)
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: Methane, dichloro-; Benzene</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Benzene</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: Benzene</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Methane, dichloro-; Benzene</p> <p>New York release reporting list: Methanol</p> <p>Rhode Island RTK hazardous substances: Methanol</p> <p>Pennsylvania RTK: Methanol: (environmental hazard)</p> <p>Florida: Methanol</p> <p>Minnesota: Methanol</p> <p>Massachusetts RTK: Methanol</p> <p>New Jersey: Methanol</p> <p>SARA 302/304/311/312 extremely hazardous substances: Methane, dichloro-</p> <p>SARA 302/304/311/312 hazardous chemicals: Methanol</p> <p>SARA 313 toxic chemical notification and release reporting: Methanol 16.59%; Methane, dichloro-77.8%</p> <p>CERCLA: Hazardous substances.: Methanol;</p>	
Other Regulations	<p>OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).</p>	
Other Classifications	WHMIS (Canada)	<p>Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).</p> <p>Class D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).</p> <p>Class D-2A: Material causing other toxic effects (VERY TOXIC).</p> <p>Class D-2B: Material causing other toxic effects (TOXIC).</p>
	HCS (U.S.A.)	<p>Class: Flammable liquid having a flash point lower than 37.8°C (100°F).</p> <p>Class: Irritating substance.</p> <p>Class: Target organ effects.</p>
Hazardous Material Information System (U.S.A.)	Health Hazard	* 2
	Fire Hazard	3
	Reactivity	0
	Personal Protection	H
National Fire Protection Association (U.S.A.)	Health	2
	Fire Hazard	3
	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 immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Hazardous Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
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. 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.

Continued on Next Page

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 C.M. Kelly on 10/11/2002. Verified by C.M. Kelly. Printed 10/28/2002.
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.