

# Material Safety Data Sheet

## Section 1. Product Identification and Use

Product Name - Trade Name **436-1794 LUSTRATE II CLEAR**

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

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Canada L1A 3Z3

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### For Transport Emergency or After Hours

CANUTEC (613) 996-6666

Code 436-1794

Synonym LUSTRATE II CLEAR

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) 1263 PAINT

## Section 2. Hazardous Ingredients

### Exposure Limits

Name	CAS #	% by Weight	LC <sub>50</sub> /LD <sub>50</sub>	TLV/PEL
Methyl n-amyl ketone	110-43-0	30-60	ORAL (LD50): Acute: 1670 mg/kg [Rat]. 730 mg/kg [Mouse]. DERMAL (LD50): Acute: 10220 mg/kg [Rabbit].	TWA: 50 (ppm) from ACGIH (TLV) [United States] [2000] TWA: 100 (ppm) from OSHA (PEL) [United States] TWA: 465 (ppm) from OSHA (PEL) [United States] TWA: 100 (ppm) from NIOSH
Methyl isobutyl ketone	108-10-1	5-10	ORAL (LD50): Acute: 21000 mg/kg [Rat]. 2850 mg/kg [Mouse]. DERMAL (LD50): Acute: 20001 mg/kg [Rabbit].	TWA: 50 STEL: 75 (ppb) from ACGIH (TLV) [United States] [1994] TWA: 205 STEL: 307 (ppm) from ACGIH (TLV) [United States] [1994]
Isobutyl acetate	110-19-0	10-30	ORAL (LD50): Acute: 4763 mg/kg [Rabbit]. 3200 mg/kg [Rat].	TWA: 150 (ppb)
Propylene glycol monomethyl ether acetate	108-65-6	1-5	ORAL (LD50): Acute: 8532 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 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 116°C (240.8°F) (2-Pentanone, 4-methyl-). Weighted average: 139.27°C (282.7°F)

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<b>Melting Point</b>	May start to solidify at -33°C (-27.4°F) based on data for: 2-Heptanone. Weighted average: -55.28°C (-67.5°F)
<b>Critical Temperature</b>	Not available.
<b>Specific Gravity</b>	Weighted average: 0.94 (Water = 1)
<b>Vapor Pressure</b>	The highest known value is 2 kPa (@ 20°C) (2-Pentanone, 4-methyl-). Weighted average: 0.81 kPa (@ 20°C)
<b>Vapor Density</b>	The highest known value is 4.6 (Air = 1) (2-Propanol, 1-methoxy-, acetate). Weighted average: 3.95 (Air = 1)
<b>Volatility</b>	Not available.
<b>Odor Threshold</b>	The highest known value is 0.64 ppm (Acetic acid, 2-methylpropyl ester) Weighted average: 0.19 ppm
<b>Water/Oil Dist. Coeff.</b>	Not available.
<b>Ionicity (in Water)</b>	Not available.
<b>Dispersion Properties</b>	Partially dispersed in methanol, diethyl ether. See solubility in water, methanol, diethyl ether, acetone.
<b>Solubility</b>	Easily soluble in acetone. Soluble en methanol, diethyl ether. Partially soluble in cold water, hot water.

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

<b>The Product is:</b>	Flammable.
<b>Fire Hazards in Presence of Various Substances</b>	Highly flammable in presence of open flames and sparks.
<b>Fire Fighting Media and Instructions</b>	Flammable liquid, soluble or dispersed in water. 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.
<b>Special Remarks on Fire Hazards</b>	Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits acrid smoke and fumes. (Acetic acid, 2-methylpropyl ester)
<b>Flash Points</b>	The lowest known value is CLOSED CUP: 16°C (60.8°F). (Tag Closed Cup). OPEN CUP: 26°C (78.8°F). (Tagliabue). (2-Pentanone, 4-methyl-)
<b>Flammable Limits</b>	The greatest known range is LOWER: 1.3% UPPER: 13.1% (2-Propanol, 1-methoxy-, acetate)
<b>Auto-Ignition Temperature</b>	The lowest known value is 393°C (739.4°F) (2-Heptanone).
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ).
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of mechanical impact: Not available. Highly explosive in presence of open flames and sparks.
<b>Special Remarks on Explosion Hazards</b>	Not available.

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

<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 oxidizing agents, acids, alkalis.
<b>Corrosivity</b>	Non-corrosive in presence of glass.
<b>Special Remarks on Reactivity</b>	Not available.
<b>Special Remarks on Corrosivity</b>	Not available.

## Section 6. Toxicological Properties

<b>Routes of Entry</b>	Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 730 mg/kg [Mouse]. (2-Heptanone). Acute dermal toxicity (LD50): 10220 mg/kg [Rabbit]. (2-Heptanone).
<b>Effects of Acute Exposure</b>	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Non-permeator by skin.
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS:</b> Not available. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available. The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage.
<b>Special Remarks on Toxicity to Animals</b>	Not available.
<b>Special Remarks on Chronic Effects on Humans</b>	Not available.
<b>Special Remarks on Other Toxic Effects on Humans</b>	Material is irritating to mucous membranes and upper respiratory tract. (Acetic acid, 2-methylpropyl ester)
<b>Exposure Limits</b>	<b>2-Heptanone</b> TWA: 50 (ppm) from ACGIH (TLV) [United States] [2000] TWA: 100 (ppm) from OSHA (PEL) [United States] TWA: 465 (ppm) from OSHA (PEL) [United States] TWA: 100 (ppm) from NIOSH <b>2-Pentanone, 4-methyl-</b> TWA: 50 STEL: 75 (ppb) from ACGIH (TLV) [United States] [1994] TWA: 205 STEL: 307 (ppm) from ACGIH (TLV) [United States] [1994] <b>Acetic acid, 2-methylpropyl ester</b> TWA: 150 (ppb)  Consult local authorities for acceptable exposure limits.

## Section 7. Preventive Measures

<b>Personal Protection</b>	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Vapor respirator. Boots. A self contained breathing apparatus should be used to avoid inhalation of the product. Gloves (impervious).
<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
<b>Small Spill</b>	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
<b>Large Spill</b>	Flammable liquid. 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. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.
<b>Waste Disposal</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Precautions</b>	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. Wear suitable protective clothing. 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>	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).
<b>TDG Classification</b>	Class 3: Flammable liquid.
<b>PIN</b>	1263 PAINT <b>PG: II</b>
<b>Special Provisions for Transport</b>	Not available.

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<b>Federal and State Regulations</b>	New York release reporting list: Acetic acid, ethyl ester Rhode Island RTK hazardous substances: Acetic acid, ethyl ester Pennsylvania RTK: 2-Heptanone; Acetic acid, ethyl ester; Isobutyl Acetate Florida: 2-Heptanone; Acetic acid, ethyl ester Minnesota: 2-Heptanone; Acetic acid, ethyl ester Massachusetts RTK: 2-Heptanone; Acetic acid, ethyl ester; Isobutyl Acetate New Jersey: 2-Heptanone; Acetic acid, ethyl ester; Isobutyl Acetate TSCA 8(b) inventory: 2-Heptanone; Acetic acid, ethyl ester; Isobutyl Acetate TSCA 5(e) substance consent order: Acetic acid, ethyl ester TSCA 12(b) annual export notification: Acetic acid, ethyl ester SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Ethyl Acetate: fire, immediate health hazard; Isobutyl Acetate: fire, immediate health hazard SARA 313 toxic chemical notification and release reporting: Methyl isobutyl ketone 5.3985% CERCLA: Hazardous substances.: Methyl isobutyl ketone; Ethyl Acetate; Isobutyl Acetate;	
<b>Other Regulations</b>	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
<b>Other Classifications</b>	<b>WHMIS (Canada)</b>	<b>CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).</b> <b>CLASS D-2A: Material causing other toxic effects (VERY TOXIC).</b> <b>CLASS D-2B: Material causing other toxic effects (TOXIC).</b>
	<b>HCS (U.S.A.)</b>	Class: Flammable liquid having a flash point lower than 37.8°C (100°F). Class: Target organ effects.
<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health Hazard</b>	* 2
	<b>Fire Hazard</b>	3
	<b>Reactivity</b>	0
	<b>Personal Protection</b>	h
<b>National Fire Protection Association (U.S.A.)</b>	<b>Health</b>	2
	<b>Fire Hazard</b>	3
	<b>Reactivity</b>	0
	<b>Specific Hazard</b>	

## Section 8. First Aid Measures

<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. Cold water may be used. Get medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Hazardous Skin Contact</b>	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
<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>	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. <b>WARNING:</b> 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.
<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

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	<b>Validated by C.M. Kelly on 5/7/2002.</b> <b>Verified by C.M. Kelly.</b> <b>Printed 11/25/2002.</b>
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.*