

Material Safety Data Sheet

Section 1. Product Identification and Use

Product Name - Trade Name **634-091 LUSTRATE (634011) GLOSS**

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

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Canada L1A 3Z3

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For Transport Emergency or After Hours

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Code 634-091

Synonym LUSTRATE (634011) GLOSS

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 ₅₀ /LD ₅₀ | TLV/PEL |
|---|-----------|-------------|--|---|
| Propylene glycol monomethyl ether acetate | 108-65-6 | 30-60 | ORAL (LD50): Acute: 8532 mg/kg [Rat]. | Not available. |
| Isobutyl acetate | 110-19-0 | 5-10 | ORAL (LD50): Acute: 4763 mg/kg [Rabbit]. 3200 mg/kg [Rat]. | TWA: 150 (ppm) from ACGIH (TLV) [United States] |
| Xylenes | 1330-20-7 | 0.1-1 | ORAL (LD50): Acute: 4300 mg/kg [Rat]. | TWA: 434 STEL: 651 (mg/m ³) from ACGIH (TLV) [United States] [1992] TWA: 100 STEL: 150 (ppm) from ACGIH (TLV) [United States] [1992] |
| Ethyl Acetate | 141-78-6 | 1-5 | ORAL (LD50): Acute: 5600 mg/kg [Rat]. | TWA: 400 from OSHA (PEL) [United States] TWA: 400 (ppm) from ACGIH (TLV) [United States] TWA: 400 (ppm) from NIOSH TWA: 1400 (mg/m ³) from NIOSH |

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 applicable.

Boiling Point The lowest known value is 77°C (170.6°F) (Acetic acid, ethyl ester). Weighted average: 134.35°C (273.8°F)

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| Melting Point | May start to solidify at -83.6°C (-118.5°F) based on data for: Acetic acid, ethyl ester. Weighted average: -94.86°C (-138.7°F) |
| Critical Temperature | Not available. |
| Specific Gravity | Weighted average: 1.02 (Water = 1) |
| Vapor Pressure | The highest known value is 9.7 kPa (@ 20°C) (Acetic acid, ethyl ester). Weighted average: 1.33 kPa (@ 20°C) |
| Vapor Density | The highest known value is 4.6 (Air = 1) (2-Propanol, 1-methoxy-, acetate). Weighted average: 4.35 (Air = 1) |
| Volatility | Not available. |
| Odor Threshold | The highest known value is 0.64 ppm (Acetic acid, 2-methylpropyl ester) |
| Water/Oil Dist. Coeff. | The product is much more soluble in oil. |
| Ionicity (in Water) | Not available. |
| Dispersion Properties | Partially dispersed in methanol, diethyl ether. Is not dispersed in cold water, hot water. See solubility in methanol, diethyl ether, n-octanol, acetone. |
| Solubility | Easily soluble in n-octanol, acetone. Soluble en methanol, diethyl ether. Insoluble in cold water, hot water. |

Section 4. Fire and Explosion Hazard

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| The Product is: | Flammable. |
| Fire Hazards in Presence of Various Substances | Highly flammable in presence of open flames and sparks. Non-flammable in presence of combustible materials, of moisture. |
| Fire Fighting Media and Instructions | Flammable liquid, insoluble in water. 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 | 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) |
| Flash Points | The lowest known value is CLOSED CUP: -1°C (30.2°F). (Tagliabue). OPEN CUP: -0.5°C (31.1°F). (Tagliabue). (Acetic acid, ethyl ester) |
| Flammable Limits | The greatest known range is LOWER: 1.3% UPPER: 13.1% (2-Propanol, 1-methoxy-, acetate) |
| Auto-Ignition Temperature | The lowest known value is 422.78°C (793°F) (Acetic acid, 2-methylpropyl ester). |
| Products of Combustion | These products are carbon oxides (CO, CO2). |
| Explosion Hazards in Presence of Various Substances | Risks of explosion of the product in presence of mechanical impact: Not available. Highly explosive in presence of open flames and sparks. |
| Special Remarks on Explosion Hazards | Not available. |

Section 5. Reactivity Data

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| Stability | The product is stable. |
| Decomposition products | Not available. |
| Conditions of Instability | Not available. |
| Incompatibility with various substances | Reactive with oxidizing agents, acids, alkalis. Non-reactive with combustible materials, moisture. |
| Corrosivity | Non-corrosive in presence of glass. |
| Special Remarks on Reactivity | Incompatible with peroxides. (Benzene) |
| Special Remarks on Corrosivity | Not available. |

Section 6. Toxicological Properties

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| Routes of Entry | Absorbed through skin. Eye contact. Inhalation. Ingestion. |
| Toxicity to Animals | Acute oral toxicity (LD50): 3200 mg/kg [Rat]. (Acetic acid, 2-methylpropyl ester). |
| Effects of Acute Exposure | Very hazardous in case of skin contact (irritant). Hazardous in case of eye contact (irritant), of ingestion, of inhalation. |
| Chronic Effects on Humans | CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC [Acetic acid, ethyl ester]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to blood, kidneys, liver. 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 | Prolonged or repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis. Prolonged exposure to high vapour concentration can cause headache, dizziness, nausea and central nervous system depression. High level exposure to Xylene in laboratory animals, often at levels which are toxic to the mother, have affected the development of the fetus. The relevance of this to humans is not known. (Benzene, dimethyl-) |
| Special Remarks on Other Toxic Effects on Humans | Material is irritating to mucous membranes and upper respiratory tract. (Acetic acid, 2-methylpropyl ester) |
| Exposure Limits | Acetic acid, 2-methylpropyl ester TWA: 150 (ppm) from ACGIH (TLV) [United States] Benzene, dimethyl- TWA: 434 STEL: 651 (mg/m ³) from ACGIH (TLV) [United States] [1992] TWA: 100 STEL: 150 (ppm) from ACGIH (TLV) [United States] [1992] Acetic acid, ethyl ester TWA: 400 from OSHA (PEL) [United States] TWA: 400 (ppm) from ACGIH (TLV) [United States] TWA: 400 (ppm) from NIOSH TWA: 1400 (mg/m ³) from NIOSH Consult local authorities for acceptable exposure limits. |

Section 7. Preventive Measures

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| 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 threshold limit value. 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 | Toxic flammable liquid, insoluble or very slightly soluble in water. 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. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities. |
| Waste Disposal | Waste must be disposed of in accordance with federal, state and local environmental control regulations. |
| Precautions | 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. 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 | Class 3: Flammable liquid. |

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| PIN | 1263 PAINT | PG: II |
| Special Provisions for Transport | Not available. | |
| 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: Xylenes - mixed isomers; Benzene, ethyl-; Benzene</p> <p>Illinois toxic substances disclosure to employee act: Benzene, ethyl-</p> <p>New York release reporting list: Acetic acid, ethyl ester</p> <p>New York acutely hazardous substances: Benzene, ethyl-</p> <p>Rhode Island RTK hazardous substances: Benzene, ethyl-; Acetic acid, ethyl ester</p> <p>Pennsylvania RTK: Isobutyl Acetate; Acetic acid, ethyl ester</p> <p>Florida: Benzene, ethyl-; Acetic acid, ethyl ester</p> <p>Minnesota: Benzene, ethyl-; Acetic acid, ethyl ester</p> <p>Massachusetts RTK: Isobutyl Acetate; Benzene, ethyl-; Acetic acid, ethyl ester</p> <p>New Jersey: Isobutyl Acetate; Benzene, ethyl-; Acetic acid, ethyl ester</p> <p>TSCA 8(b) inventory: Isobutyl Acetate; Xylenes - mixed isomers; Benzene, ethyl-; Acetic acid, ethyl ester</p> <p>TSCA 5(e) substance consent order: Acetic acid, ethyl ester</p> <p>TSCA 8(d) H and S data reporting: Benzene, ethyl-</p> <p>TSCA 12(b) annual export notification: Acetic acid, ethyl ester</p> <p>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Xylenes - mixed isomers: fire, immediate health hazard; Isobutyl alcohol: fire, delayed health hazard; Benzene, ethyl-: fire, immediate health hazard; Ethyl Acetate: fire, immediate health hazard</p> <p>SARA 313 toxic chemical notification and release reporting: Xylenes - mixed isomers 0.105%</p> <p>CERCLA: Hazardous substances.: Isobutyl Acetate; Xylenes - mixed isomers; Isobutyl alcohol; Benzene, ethyl-: 1000 lbs. (453.6 kg); Ethyl Acetate;</p> | |
| Other Regulations | OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). | |
| Other Classifications | WHMIS (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.) | Class: Flammable liquid having a flash point lower than 37.8°C (100°F). |
| 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

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| 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 | 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 immediate medical attention. |
| 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. |

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| 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

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| 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. Kelly on 10/4/2001. Verified by C. Kelly. Printed 9/18/2002. |
| 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

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