



Safety Data Sheet

| Section 1. Identification | | |
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| Product Name | Chem Thane | Version: 6 Effective Date: 15 January, 2021 |
| Other Means Of Identification | None | |
| Initial Supplier Identifier | Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055 | |
| Recommended Use and Restrictions On Use | Industrial solvent, degreaser. Avoid contact with hot surfaces. | |
| Product Family | Halogenated alkanes | |
| Emergency Phone | 1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST | |

| Section 2. Hazard Identification | |
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| Hazard Classification |   |
| Health Hazards | Skin Corrosion/Irritation - Category 2 Carcinogenicity - Category 1 Specific Target Organ Toxicity (Single Exposure) - Category 3 Eye Damage/Irritation - Category 2A Germ Cell Mutagenicity - Category 2 |
| Environmental Hazards | Hazardous to The Aquatic Environment – Long Term (Chronic) Hazard - Category 3 |
| Signal Word | Danger |
| Hazard Statement | Causes skin irritation. May cause cancer. May cause respiratory irritation; or may cause drowsiness or dizziness. Causes serious eye irritation. Suspected of causing genetic defects. Harmful to aquatic life with long lasting effects. |
| Precautionary Prevention Statement | Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye and face protection. |

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| | Avoid breathing dust, fume, gas, mist, vapours, or spray. Use only outdoors or in a well-ventilated area. Avoid release to environment. |
| Precautionary Response Statement | IF ON SKIN: Wash with plenty water and soap. Specific treatment: do not induce vomiting unless directed by medical personnel. No specific antidote. Supportive care. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. If exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| Precautionary Storage Statement | Store locked up, in a well-ventilated place. Keep container tightly closed. |
| Precautionary Disposal Statement | Dispose of contents / container in accordance with local regulations. |
| Other Hazards | None |

Section 3. Composition / Information on Ingredients

| Chemical Name | Common Name or Synonyms | CAS NO. and Other Unique Identifiers | % by weight |
|--|-------------------------|--------------------------------------|-------------|
| Trichloroethylene | N/A | 79-01-6 | 90 - 100 |
| Balance of ingredients are considered non-hazardous and constitute a proprietary blend | | | |

Section 4. First-Aid Measures

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| Eye Contact | Flush eyes with water for 15 minutes. Seek medical attention. |
| Skin Contact | Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse. |
| Inhalation | Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention. |
| Ingestion | Give two glasses of water. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention. |
| Most Important Symptoms and Effects Both Acute and Delayed | May cause respiratory tract irritation. Vapours may cause drowsiness and dizziness. May cause skin irritation. |

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| Immediate Medical Attention and Special Treatment | Because rapid absorption through the lungs may occur if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by the physician. If lavage is performed, it is suggested to use endotracheal and /or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to the reactions of the patient. Only administer adrenaline after careful consideration following overexposure. Increased sensitivity of the heart to adrenaline may be caused by over exposure to this product. |
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| Section 5. Fire-Fighting Measures | |
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| Suitable and Unsuitable Extinguishing Media | Dry chemical, CO ₂ , alcohol foam or water spray. |
| Hazardous Combustion Products | Carbon monoxide, carbon dioxide, hydrogen chloride, phosgene and chlorine. |
| Specific Hazards Arising From The Product | Vapour concentrations of 12.5%-90% v/v between 30°C and 82°C may ignite if in contact with high temperature heat sources. Vapour may ignite above 25.5°C if mixed with pure oxygen (10.3%-64.5% v/v). Certain mixtures in air can ignite with high intensity sources of heat, such as welding arcs, sparks and flames or at high temperatures and pressures. Welding or cutting should not be carried out on any vessel likely to contain solvent. |
| Special Protective Equipment and Precautions for Fire-Fighters | Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire. |

| Section 6. Accidental Release Measures | |
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| Personal Precautions, Protective Equipment and Emergency Procedures | Safety glasses, gloves (nitrile), chemical resistant footwear, air purifying respirator. Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred, advise local emergency services. |
| Environmental Precautions | Prevent entry of spilled materials into sewers or watercourses. Dike if required. |
| Methods and Materials For Containment and Clean-Up | Cordon off area; do not allow personnel other clean-up crew in the area. Soak up or pump up spilt material (absorbent for organic materials). Place in an appropriate container for disposal. Remove all sources of ignition and hot surfaces. Wash area with soap and water to remove any residues. |

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| Section 7. Handling and Storage | |
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| Precautions For Safe Handling | Handle with care. Toxic material. Do not inhale vapours or mists. Avoid contact with skin and eyes. |
| Conditions For Safe Storage | Store in a cool dry place. Do not allow to come in contact with hot surfaces or sources of ignition. |

| Section 8. Exposure Controls / Personal Protection | | | | |
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| Control Parameters | TWA: 8 Hr | STEL: 15 min | Ceiling | IDLH * |
| Trichloroethylene | 10ppm (ACGIH) | 25 ppm | | 1000 ppm |
| * Immediately Dangerous to Life and Health | | | | |
| Exposure Controls | Local exhaust ventilation | | | |
| Appropriate Engineering Controls | Ensure ventilation is adequate to maintain air concentrations below Workplace Exposure Standards. Vapours are heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use. Ensure safety shower and eye wash station are available. | | | |
| Individual Protective Measures | If exposure limits are exceeded: | | | |
| Eye / Face Protection | Resistant safety glasses | | | |
| Skin Protection | Wear gloves (neoprene), coveralls - chemical | | | |
| Respiratory Protection | An air purifying respirator, fitted with cartridges for organic vapours must be worn. | | | |

| Section 9. Physical and Chemical Properties | |
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| Appearance | Clear, colourless liquid |
| Odour | Typical ether like odour |
| Odour Threshold | Not available. |
| pH | Not applicable. |
| Flash Point | 32°C (90°F) |
| Boiling Point and Boiling Range | 87 °C |
| Melting Point and Freezing Point | -87 °C |
| Evaporation Rate | 0.28 |
| Flammability (solid, gas) | |
| Upper and Lower Flammability or Explosive Limits | 10.5 – 8 %(v) |
| Vapour Pressure | 57.8 mmHg |
| Vapour Density | 4.54 |

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| Relative Density | 1.465 |
| Solubility | Virtually insoluble |
| Partition co-efficient, n-Octanol/Water | log Pow: 2.29 log Pow: 5 |
| Auto-ignition Temperature | 410.0 °C (770.0 °F) |
| Decomposition Temperature | No data |
| % Volatile | 100 |
| Viscosity | No data |

| Section 10. Stability and Reactivity | |
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| Reactivity | Stable |
| Chemical Stability | Stable |
| Possibility of Hazardous Reactions | Will not occur |
| Conditions to Avoid | Extreme heat |
| Incompatible Materials | Avoid excessive heat, open flames, all sources of ignition and contact with hot surfaces – including hot ash (cigarettes), and direct sunlight. |
| Hazardous Decomposition Products | Hydrogen chloride and phosgene. Avoid contact with caustic soda and caustic potash. Shock sensitive compounds may be formed. Reaction with strong alkali metal hydroxides will form dichloroacetylene which can spontaneously ignite in air. |

| Section 11. Toxicological Information | | | |
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| Component Toxicity | LD50 Oral | LD50 Dermal | LC50 Inhalation |
| Trichloroethylene | 4290mg/kg (Rat) | 20 g/kg (Rabbit) | 8000 ppm / 1hr (Mouse) |
| Likely Routes of Exposure | | | |
| Skin: | May cause severe irritation. Single exposure should not result in harmful amounts being absorbed through the skin. Repeated and prolonged exposure and contact may result in dermatitis and absorption of significant and potentially harmful quantities. | | |
| Eyes: | May cause severe irritation. Will cause pain, excess blinking and tear production. Redness and swelling of the conjunctiva will occur. | | |
| Inhalation: | Toxic. Central nervous system depressant – symptoms include: headache, dizziness, drowsiness, incoordination, slowed reactions, slurred speech, giddiness and unconsciousness. Fatalities can follow severe exposure to various chlorinated solvents due to ventricular fibrillation. | | |
| Ingestion: | | | |

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| | Very toxic. May cause irritation of the mouth and gastrointestinal tract. May cause some similar symptoms as inhalation. Aspiration into the lungs may occur if vomiting occurs after ingestion, this will result in lung damage. Pneumonitis: symptoms include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia which can be fatal. |
| Acute Toxicity Estimates (ATE) | Oral - Rat - 4,920 mg/kg Inhalation - Mouse - 4 h - 8450 ppm Dermal - Rabbit - > 20,000 mg/kg |
| STOT (Specific Target Organ Toxicity) – Single Exposure | May cause respiratory irritation. May cause drowsiness or dizziness. |
| Aspiration Toxicity | Not classified |
| STOT (Specific Target Organ Toxicity) – Repeated Exposure | Not classified |
| Skin Corrosion / Irritation | Severe skin irritation |
| Serious Eye Damage / Irritation | Irritant |
| Respiratory or Skin Sensitization | Not classified |
| Carcinogenicity | Tumours were observed in mice given large doses of trichloroethylene. Data suggest a non-genotoxic mechanism for tumour formation that implies that non-toxic doses of trichloroethylene should pose little or no carcinogenic hazard. Low incidence of tumours has been observed in male rats at high levels of trichloroethylene which caused reduced survival, rendering these studies inadequate. Limited epidemiology data have shown a weak association between trichloroethylene exposure and renal cancer. |
| Reproductive Toxicity | |
| - Sexual Function and Fertility | Not classified |
| - Development of Offspring | Not classified |
| - Effects on or via Lactation | Not classified |
| Germ Cell Mutagenicity | Laboratory experiments have shown mutagenic effects. In-vitro tests showed mutagenic effects |
| Interactive Effects | No data |
| Other Information | None known |

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| Section 12. Ecological Information | |
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| Ecotoxicity | Trichloroethylene LC50: 40.7 mg/L (Pimephales promelas) LC50: 45 mg/L (Lepomis macrochirus) LC50: 60 mg/L (Brachydanio rerio) EC50: 450 mg/L (Scenedesmus subspicatus) |
| Persistence and Degradability | There are no data on the degradability of this product. |
| Bioaccumulative Potential | Not available |
| Biodegradability | Not available |
| Mobility in Soil | Not available |
| Special Remarks | Material is moderately toxic to aquatic organisms on an acute basis (LC50 or EC50 between 1 and 10 mg/L in most sensitive species). |
| Other Adverse Effects | None known |

| Section 13. Disposal Considerations | |
|-------------------------------------|---|
| Disposal Considerations | Dispose of contents / container in accordance with local regulations. |

| Section 14. Transport Information | |
|-----------------------------------|-------------------|
| UN Number | UN1710 |
| UN Proper Shipping Name | Trichloroethylene |
| Transport Hazard Class(es) | 6.1 |
| Packaging Group | III |
| Environmental Hazards | Not applicable |
| Bulk Transport | Not applicable |
| Special Precaution | Not applicable |
| DOT Erg# | 160 |

| Section 15. Regulatory Information | |
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| Canada – DSL Inventory | All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt |
| TSCA | All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt |
| Additional Information | None |

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| Section 16. Other Information | |
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| NFPA Rating | Health-3/ Flammability-1/Reactivity-0/Special Hazard-Not applicable |
| HMIS Rating | Health-3/Flammability-1/Reactivity-0/Personal Protection-See Section 8. |
| Prepared by: | Chemfax Products Ltd., Technical Department |
| Date Prepared: | 26 August, 2011 |
| Date of Latest Revision: | 15 January, 2021 |
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