


Material Safety Data Sheet

| Section 1. Chemical Product and Company Identification | | |
|---|---|---|
| Product Name: | Acetone | Version: 6 Effective Date: June 20, 2014 |
| Supplier/ Manufacturer: | Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055 | |
| Material Uses | Industrial solvent | |
| 24 Hour Emergency | Canutec (613) 996-6666 | |
| WHMIS | | |
|  | | |
| This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR | | |
| HMIS Ratings for this product are: Health 1 , Flammability 3 , Reactivity 0 | | |

| Section 2. Composition and Information on Ingredients | | |
|---|---------|-------------|
| Name | CAS# | % by weight |
| Acetone | 67-64-1 | 100 |
| See Section 8 for information on permissible exposure limits and threshold limit values | | |

| Section 3. Hazards Identification | |
|---------------------------------------|--|
| Physical State and Appearance | Clear, colourless liquid with strong odour |
| Hazard Summary | Flammable liquid, irritant |
| Routes of Exposure | Skin –contact and absorption, eyes, inhalation, ingestion |
| Potential Acute Health Effects | <p>Skin: Irritant. Prolonged contact will cause drying, redness and cracking. Material can be absorbed through the skin but is not likely to cause toxic effects.</p> <p>Eyes: Irritant. Will cause stinging, tearing, redness and swelling of the eyes.</p> |

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| | <p>Inhalation: Breathing of small amounts of product is not expected to cause harmful effects. Large volumes above exposure limits may cause respiratory tract irritation.</p> <p>Ingestion: Swallowing this material may cause lung injury if aspirated into the lungs during swallowing or vomiting. Lung tissue may become inflamed. Digestive tract disturbances may result – vomiting, nausea and diarrhoea.</p> |
| Medical Conditions Aggravated by Exposure | Asthma and blood forming processes. Liver and kidney function. Reversible effects |
| See Toxicological Information – Section 11 | |
| Additional Hazard Identification Remarks | None |

| Section 4. First Aid Measures | |
|-------------------------------------|--|
| 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 | Rinse mouth with water if conscious. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention. |
| Notes to Physician | None |
| Additional First Aid Remarks | None |

| Section 5. Fire Fighting Measures | |
|--------------------------------------|--|
| Flammability of the Product | Flammable liquid |
| Flash Point | - 20 °C |
| Explosive Limits | LEL: 2.6 % UEL: 12.8 % |
| Auto Ignition Temperature | 465 °C |
| Static Discharge | Yes |
| Suitable Extinguishing Media | Dry chemical, carbon dioxide, alcohol resistant foam, |
| Hazardous Combustion Products | Carbon monoxide and dioxide |
| Precautions for Fire Fighting | Fire fighters should wear self contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire. Vapours may travel along the floor to sources of ignition. |

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| Section 6. Accidental Release Measures | |
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| Personal Precautions | Gloves (nitrile), coveralls (Nomex), safety glasses |
| Environmental Precautions | Do not allow material to enter, sewers and surface watercourses. Low lying areas – sumps, basements etc may collect flammable vapours. |
| Methods for Clean Up | Remove / extinguish all sources of ignition and naked flames. Pump up or soak up spilt material and place in suitable container for disposal. Allow residues to evaporate and disperse. |

| Section 7. Handling and Storage | |
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| Handling | Handle with care. Flammable liquid. Ground all containers when in use. Spark resistant equipment should be employed. Clothing should be Nomex or similar non static forming material. |
| Storage | Store in a cool dry place. Remove all sources of ignition and naked flames. |

| Section 8. Exposure Controls and Personal Protection | | | |
|---|--|-----------------------|----------------|
| Exposure Guidelines | TWA: 8 Hr | STEL: 15 min | Ceiling |
| Acetone | 500 ppm CAD AB OEL | 750 ppm CAD AB OEL | |
| Exposure Controls | Local exhaust ventilation | | |
| Personal Protection | | | |
| Respiratory | Air purifying respirator fitted with organic vapour cartridges if exposure limits are exceeded | | |
| Skin | Gloves (nitrile), coverall (Nomex), | | |
| Eyes | Safety glasses | | |
| Other | None | | |

| Section 9. Physical and Chemical Properties | |
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| Physical State and Appearance | Clear, colourless liquid with strong odour |
| Odour Threshold | No data |
| pH | Not applicable |
| Boiling Point | 56 °C |
| Melting Point / Freezing point | - 94.8 °C |
| Evaporation Rate | 14.1 (N-butyl acetate) |
| Vapour Density | 2.00 (air = 1) |
| Vapour Pressure | 30.79 kPa @ 25 °C |
| Relative Density | 0.7865 g / cm ³ @ 25 °C |
| Solubility in Water | Soluble |
| % Volatile | 100 |
| Other Data | None |

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| Section 10. Stability and Reactivity | |
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| Chemical Stability | Stable |
| Hazardous Polymerisation | Will not occur |
| Conditions to Avoid | Naked flames, sparks and sources of ignition. Elevated temperatures. |
| Materials to Avoid | Acids, alkalis, reducing agents, strong oxidising agents |
| Hazardous Decomposition Products | Not expected to decompose under normal conditions of use |

| Section 11. Toxicological Information | |
|---|--|
| Principle Routes of Exposure | |
| Skin: | Irritant. Prolonged contact will cause drying, redness and cracking. Material can be absorbed through the skin but is not likely to cause toxic effects. |
| Eyes: | Irritant. Will cause stinging, tearing, redness and swelling of the eyes. |
| Inhalation: | Breathing of small amounts of product is not expected to cause harmful effects. Large volumes above exposure limits may cause respiratory tract irritation. |
| Ingestion: | Swallowing this material may cause lung injury if aspirated into the lungs during swallowing or vomiting. Lung tissue may become inflamed. Digestive tract disturbances may result – vomiting, nausea and diarrhoea. |
| Additional Information | |
| Acute Toxicity | |
| Acetone | LD50: 5800 mg/kg acute (Rat, oral) LC50: 16000 ppm acute (Rat, inhalation) 4 hr LD50: >20000 mg/kg acute (rabbit, dermal) |
| Chronic Toxic Effects – None known | |
| Carcinogenicity – Not listed | |
| Reproductive Toxicity / Teratogenicity / Embryotoxicity / Mutagenicity – Results with laboratory animals are not considered relevant to humans | |

| Section 12. Ecological Information | |
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| Ecotoxicity | Acetone: LC50: 8733 – 9482 mg/l Fathead minnow 96 hr LC50: 8300 mg/l Bluegill 96 hr LC50: 4740 – 6330 mg/l Rainbow trout 96 hr |
| BOD and COD | No data |
| Biodegradability / OECD | No data |
| Toxicity of the Products of Biodegradation | No data |
| Special Remarks | None |

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Section 13. Disposal Considerations

Dispose of in accordance with local, provincial and federal regulations

Section 14. Transport Information

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|-----------------------------------|---|
| TDG Classification | Acetone: UN 1090 Class 3 Packing Group II |
| Emergency Response Guide # | ERG # 127 |
| Marine Pollutant | No |
| Special Precautions | None |

Section 15. Regulatory Information

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| Canada – DSL Inventory | All components of this product are either on the Domestic Substances List (DSL) or 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 |
| WHMIS Hazard Class | B2 D2B |
| Additional Information | None |

Section 16. Other Information

Prepared by:
Chemfax Products Ltd., Technical Department

Date Prepared: 17 August, 2012

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Disclaimer

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