



SAFETY DATA SHEET

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, EU & GHS Standards

SDS Revision: 1.0

SDS Revision Date: 11/11/2019

1. PRODUCT & COMPANY IDENTIFICATION

| | | |
|-----|------------------------|--|
| 1.1 | Product Name: | WEBER FIRE STARTER |
| 1.2 | Chemical Name: | Petroleum Distillates |
| 1.3 | Synonyms: | 09725015, 09725081 |
| 1.4 | Trade Names: | Weber Lighter Cubes |
| 1.5 | Product Use: | Firelighter |
| 1.6 | Distributor's Name: | Weber-Stephen Products, LLC |
| 1.7 | Distributor's Address: | 1415 S. Roselle Road, Palatine, IL 60067 USA |
| 1.8 | Emergency Phone: | CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 |
| 1.9 | Business Phone / Fax: | Tel: +1 (847) 934-5700 or +1 (847) 446-1071 (Toll-Free) / Fax: +1 (224) 836-2991 |

2. HAZARDS IDENTIFICATION

| | | |
|-----|------------------------|---|
| 2.1 | Hazard Identification: | Prepared in accordance with the Globally Harmonized System, U.S. OSHA and EU standards. This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of Australia's WHS Act & Regulations (WHSR) and Australian Dangerous Goods (ADG) Code. DANGER! FLAMMABLE SOLID. Classification: Flam. Sol. 1 |
| 2.2 | Label Elements: | <u>Hazard Statements</u> (H): H228 – Flammable solid. EUH066 – Repeated exposure may cause skin dryness and cracking. <u>Precautionary Statements</u> (P): P101 - If medical advice is needed, have product container or label at hand. P102 – Keep out of reach of children. P103 – Read label before use. P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 – Ground and bond container and receiving equipment. P280 – Wear protective gloves/clothing/eye/face protection. P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 – Do not induce vomiting. P305+P351+P338 – IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P370+P378 - In case of fire, CO ₂ , Halon (if permitted), dry chemical, or foam for extinction. P405 – Store locked up. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF). |
| 2.3 | Other Warnings: | KEEP OUT OF REACH OF CHILDREN. |



3. COMPOSITION & INGREDIENT INFORMATION

| CHEMICAL NAME(S) | CAS No. | RTECS No. | EINECS No. | % | EXPOSURE LIMITS IN AIR (mg/m ³) | | | | | | | | | OTHER |
|---|--|-----------|------------|-------|---|------|--------|---------|---------|------|------|------|-----------|-------------|
| | | | | | ACGIH | | NOHSC | | | OSHA | | | | |
| | | | | | ppm | | ppm | | | ppm | | | | |
| | | | | | TLV | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL | STEL | IDLH | | |
| HYDROCARBONS, C ₁₁₋₁₄ , CYCLICS <2% AROMATICS | 1174522-15-6 | NA | 810-605-9 | 25-50 | 1200 | NA | NF | NF | NF | NF | 1200 | NA | NA | CEFCIC-HSPA |
| | Asp. Tox. 1, H304; EUH066; REACH Reg No 01-2119480162-45 | | | | | | | | | | | | | |
| DISTILLATES, C ₈₋₂₆ BRANCHED AND LINEAR | 848301-67-7 | NA | 619-568-1 | 25-50 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| | Asp. Tox. 1, H304; REACH Reg No 01-0000020119-75 | | | | | | | | | | | | | |
| METHYLENEDIUREA | 68611-64-3 | NA | 271-898-1 | 5-10 | 15 | NA | NF | NF | NF | 15 | NA | NA | RESP DUST | |
| | Aquatic Chronic 3; H412 | | | | | | | | | | | | | |

4. FIRST AID MEASURES

| | | |
|-----|---------------------------|---|
| 4.1 | First Aid: | <u>Ingestion:</u> If ingested, do not induce vomiting. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time and amount of the substance that was swallowed. <u>Eyes:</u> If product is in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open and close eyelid(s) to ensure thorough irrigation. If problem persists, consult a physician. <u>Skin:</u> If redness, dryness or other signs of irritation to the skin develops, wash affected skin areas with plenty of warm water and soap. If irritation persists, consult a physician. <u>Inhalation:</u> Remove victim to fresh air at once. |
| 4.2 | Effects of Exposure: | <u>Ingestion:</u> If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression. <u>Eyes:</u> Irritating to eyes. Symptoms of overexposure may include redness, itching, irritation and watering. <u>Skin:</u> The product can cause an allergic skin reaction (e.g., rashes, welts, dermatitis) in some sensitive individuals, especially after prolonged and/or repeated contact. <u>Inhalation:</u> Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory system. |
| 4.3 | Symptoms of Overexposure: | <u>Ingestion:</u> If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression. <u>Eyes:</u> Irritating to eyes. Symptoms of overexposure may include redness, itching, irritation and watering. <u>Skin:</u> Symptoms of skin overexposure in individuals may include redness, itching, and irritation of affected areas. <u>Inhalation:</u> Symptoms of overexposure may include coughing, wheezing, nasal congestion, and difficulty breathing. |



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4. FIRST AID MEASURES – cont'd

| | | |
|-----|--|--|
| 4.4 | Acute Health Effects: | Mild to moderate irritation to eyes. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. |
| 4.5 | Chronic Health Effects: | Contains petroleum distillates, may be harmful when ingested. Repeated exposure may cause skin dryness or cracking. The product can cause an allergic skin reaction (e.g., rashes, welts, dermatitis) in some sensitive individuals. |
| 4.6 | Target Organs: | Eyes, Skin |
| 4.7 | Medical Conditions Aggravated by Exposure: | None reported by the manufacturer. |
| | | HEALTH 1 |
| | | FLAMMABILITY 3 |
| | | PHYSICAL HAZARDS 0 |
| | | PROTECTIVE EQUIPMENT B |
| | | EYES SKIN |

5. FIREFIGHTING MEASURES

| | | | |
|-----|---------------------------|---|--|
| 5.1 | Fire & Explosion Hazards: | WARNING: Flammable! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed. | |
| 5.2 | Extinguishing Methods: | Water fog CO ₂ , Dry Chemical, Foam. DO NOT use water jet. | |
| 5.3 | Firefighting Procedures: | When involved in a fire, this product will ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. First responders should wear eye protection. Structural firefighters must wear SCBAs and full protective equipment. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product. HazChem Code: 3YE; Hazard Identification Number: 33 | |

6. ACCIDENTAL RELEASE MEASURES

| | | |
|-----|---------|--|
| 6.1 | Spills: | Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For <u>small spills</u> (e.g., ≤ 10 lbs (4.5 kg)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (e.g., open doors/windows). Remove spilled material with non-sparking tools and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For <u>large spills</u> (e.g., > 10 lbs (4.5 kg)), deny entry to all unprotected individuals. Maximize ventilation (e.g., open doors/windows, local exhaust ventilation/fans). Remove spilled material with non-sparking tools and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. |
|-----|---------|--|

7. HANDLING & STORAGE INFORMATION

| | | |
|-----|---------------------------|--|
| 7.1 | Work & Hygiene Practices: | Avoid prolonged contact with the product. Avoid breathing vapors of this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product. |
| 7.2 | Storage & Handling: | Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surface. Keep container closed tightly when not in use. Empty container may contain residual amounts of this product; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Store away from incompatible materials (see Section 10). |
| 7.3 | Special Precautions: | Open containers slowly on a stable surface. Keep container tightly closed when not in use. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. |

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

| | | | | | | | | | | | |
|-----|--|---|------|--------|---------|---------|------|------|------|-------|------------|
| 8.1 | Exposure Limits: ppm (mg/m ³) | ACGIH | | NOHSC | | | OSHA | | | OTHER | |
| | | TLV | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL | STEL | IDLH | | |
| | | CHEMICAL NAME(S) | | | | | | | | | |
| | | HYDROCARBONS, C ₁₁₋₁₄ , ISOALKANES <2% AROMATICS | 1200 | NA | NF | NF | NF | 1200 | NA | NA | CEFIC-HSPA |
| | | METHYLENEDIUREA | 15 | NA | NF | NF | NF | 15 | NA | NA | RESP DUST |
| 8.2 | Ventilation & Engineering Controls: | Use with adequate ventilation (e.g., local exhaust ventilation is preferred, fans, open doors and windows). Use in a chemical fume hood when working with large quantities of product and provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. | | | | | | | | | |





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8. EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd

| | | | |
|-----|-------------------------|--|---|
| 8.3 | Respiratory Protection: | No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia. | |
| 8.4 | Eye Protection: | Avoid eye contact. Safety glasses with side shields should be used when handling large quantities (e.g., > 10 lbs (4.5 kg)) of this product. If necessary, refer to U.S. OSHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166. |  |
| 8.5 | Hand Protection: | None required under normal conditions of use. However, may cause skin irritation and/or allergic sensitivity in some sensitive individuals, so when product is being mixed, or handled, wear gloves made of latex, rubber (nitrile), vinyl or other impervious material. If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex, rubber (nitrile), vinyl or other impervious gloves. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states. |  |
| 8.6 | Body Protection: | No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA. | |

9. PHYSICAL & CHEMICAL PROPERTIES

| | | |
|------|---|--|
| 9.1 | Appearance: | Solid, white. |
| 9.2 | Odor: | Waxy solid with slight petroleum odor |
| 9.3 | Odor Threshold: | ND |
| 9.4 | pH: | NA |
| 9.5 | Melting Point/Freezing Point: | NE |
| 9.6 | Initial Boiling Point/Boiling Range: | > 100 °C (> 212 °F) |
| 9.7 | Flashpoint: | NA |
| 9.8 | Upper/Lower Flammability Limits: | NE |
| 9.9 | Vapor Pressure: | NA |
| 9.10 | Vapor Density: | > 1 (AIR = 1) |
| 9.11 | Relative Density: | 0.8 g/mL |
| 9.12 | Solubility: | Insoluble |
| 9.13 | Partition Coefficient (log P _{ow}): | NA |
| 9.14 | Autoignition Temperature: | > 210 °C (410 °F) |
| 9.15 | Decomposition Temperature: | NA |
| 9.16 | Viscosity: | NA |
| 9.17 | Other Information | Evaporation rate: very low. Solid. Easily ignitable. |

10. STABILITY & REACTIVITY

| | | |
|------|-----------------------------------|---|
| 10.1 | Stability: | This product is stable under ambient conditions when stored properly (see Section 7, Storage and Handling). |
| 10.2 | Hazardous Decomposition Products: | Not known |
| 10.3 | Hazardous Polymerization: | Not known |
| 10.4 | Conditions to Avoid: | Open flames, sparks, high heat and direct sunlight. |
| 10.5 | Incompatible Substances: | Oxidizing agents. |

11. TOXICOLOGICAL INFORMATION

| | | | | |
|------|------------------------------|--|-----------------|----------------|
| 11.1 | Routes of Entry: | Inhalation: YES | Absorption: YES | Ingestion: YES |
| 11.2 | Toxicity Data: | The product has NOT been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature, but this data has not been presented in this document. Ingredients of unknown toxicity: 37%. <u>Methylenediurea</u> : LD ₅₀ (oral, rat): > 2,000 mg/kg. ATE _{mix} (LC ₅₀ , inh): 5,000 mg/L; ATE _{mix} (LD ₅₀ , dermal): > 5,000 mg/kg; ATE _{mix} (LD ₅₀ , oral): > 2,863 mg/kg. | | |
| 11.3 | Acute Toxicity: | See Section 4.4 | | |
| 11.4 | Chronic Toxicity: | See Section 4.5 | | |
| 11.5 | Suspected Carcinogen: | NA | | |
| 11.6 | Reproductive Toxicity: | This product is not reported to produce reproductive toxicity effects in humans. | | |
| | Mutagenicity: | This product is not reported to produce mutagenic effects in humans. | | |
| | Embryotoxicity: | This product is not reported to produce embryotoxic effects in humans. | | |
| | Teratogenicity: | This product is not reported to produce teratogenic effects in humans. | | |
| | Reproductive Toxicity: | This product is not reported to produce reproductive toxicity effects in humans. | | |
| 11.7 | Irritancy of Product: | See Section 2.3 | | |
| 11.8 | Biological Exposure Indices: | NE | | |
| 11.9 | Physician Recommendations: | Treat symptomatically. | | |



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12. ECOLOGICAL INFORMATION

| | | |
|------|------------------------------|---|
| 12.1 | Environmental Stability: | When released into water, this material is not expected to evaporate significantly. The surfactants contained in this preparation comply with the biodegradability criteria per EU Detergents Regulation 648/2004/EC. |
| 12.2 | Effects on Plants & Animals: | There is no specific data available for this product. |
| 12.3 | Effects on Aquatic Life: | Methylenediurea: EC ₅₀ (Daphnia magna, 48h): > 150 mg/L. Calculated LC ₅₀ (fish): 252 mg/L. Calculated EC ₅₀ (water flea): 697 mg/L. |

13. DISPOSAL CONSIDERATIONS

| | | |
|------|-------------------------|---|
| 13.1 | Waste Disposal: | Dispose of in accordance with federal, state and local regulations. |
| 13.2 | Special Considerations: | U.S. EPA Waste Number: D001 (characteristic - ignitable) |

14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

| | | | |
|------|----------------------|--|--|
| 14.1 | 49 CFR (GND): | UN2623, FIRELIGHTERS, SOLID, 4.1, III, LTD QTY (IP VOL ≤ 5.0 kg) * | |
| 14.2 | IATA (AIR): | UN2623, FIRELIGHTERS, SOLID, 4.1, III, LTD QTY (IP VOL ≤ 1.0 kg) * | |
| 14.3 | IMDG (OCN): | UN2623, FIRELIGHTERS, SOLID, 4.1, III, LTD QTY (IP VOL ≤ 5.0 kg) * | |
| 14.4 | TDGR (Canadian GND): | UN2623, FIRELIGHTERS, SOLID, 4.1, III, LTD QTY (IP VOL ≤ 5.0 kg) * | |
| 14.5 | ADR/RID (EU): | UN2623, FIRELIGHTERS, SOLID, 4.1, III, LTD QTY (IP VOL ≤ 5.0 kg) * EU Tunnel Restriction: E | |
| 14.6 | SCT (MEXICO): | UN2623, YESCAS SOLIDAS, 4.1, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 kg) * | |
| 14.7 | ADGR (AUS): | UN2623, FIRELIGHTERS, SOLID, 4.1, III, LTD QTY (IP VOL ≤ 5.0 kg) * | |

* This product is offered under the terms of U.S. DOT Special Permit DOT-SP 20644, which harmonizes the domestic and international transportation classification for this product as UN2623, FIRELIGHTERS, SOLID, 4.1, III.

15. REGULATORY INFORMATION

| | | | |
|------|-----------------------------------|--|------|
| 15.1 | SARA Reporting Requirements: | This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. | |
| 15.2 | SARA Threshold Planning Quantity: | There are no specific Threshold Planning Quantities for the components of this product. | |
| 15.3 | TSCA Inventory Status: | The components of this product are listed on the TSCA Inventory. | |
| 15.4 | CERCLA Reportable Quantity (RQ): | NA | |
| 15.5 | Other Federal Requirements: | NA | |
| 15.6 | Other Canadian Regulations: | This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDL. None of the components of this product are listed on the Priorities Substances List. WHMIS B4, D2B (Flammable Solid, Other Toxic Effects) | |
| 15.7 | State Regulatory Information: | None of the ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). | |
| 15.8 | Other Requirements: | NA | |



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16. OTHER INFORMATION

| | | |
|------|----------------------|--|
| 16.1 | Other Information: | <p>WARNING! FLAMMABLE SOLID. Keep away from heat or flame. If medical advice is needed, have product container or label at hand. Keep away from heat/open flames. Wear protective gloves. IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. In case of fire, CO₂, dry chemical, or foam for extinction. Store in a cool place.</p> <p>KEEP OUT OF REACH OF CHILDREN.</p> |
| 16.2 | Terms & Definitions: | See last page of this Safety Data Sheet. |
| 16.3 | Disclaimer: | This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Weber-Stephen Products, LLC's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition. |
| 16.4 | Prepared for: | <p>Weber-Stephen Products, LLC 1415 S. Roselle Road Palatine, IL 60067 USA Tel: +1 (847) 934-5700 Tel: +1 (800) 446-1071 Toll-Free Fax: +1 (224) 836-2991 http://www.weber.com/</p>  |
| 16.5 | Prepared by: | <p>ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com</p>  |



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

| | |
|------------|--|
| CAS No. | Chemical Abstract Service Number |
| RTECS No. | Registry of Toxic Effects of Chemical Substances Number |
| EINECS No. | European Inventory of Existing Commercial Chemical Substances Number |

EXPOSURE LIMITS IN AIR:

| | |
|-------|--|
| ACGIH | American Conference on Governmental Industrial Hygienists |
| IDLH | Immediately Dangerous to Life and Health |
| NOHSC | National Occupational Health and Safety Commission (Australia) |
| OSHA | U.S. Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| STEL | Short Term Exposure Limit |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

FIRST AID MEASURES:

| | |
|-----|--|
| CPR | Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body. |
|-----|--|

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

| | |
|---|-----------------|
| 0 | Minimal Hazard |
| 1 | Slight Hazard |
| 2 | Moderate Hazard |
| 3 | Severe Hazard |
| 4 | Extreme Hazard |

| |
|----------------------------|
| HEALTH |
| FLAMMABILITY |
| PHYSICAL HAZARDS |
| PERSONAL PROTECTION |

PERSONAL PROTECTION RATINGS:

| | | | |
|---|--|---|--|
| A | | G | |
| B | | H | |
| C | | I | |
| D | | J | |
| E | | K | |
| F | | X | Consult your supervisor or SOPs for special handling directions. |

| | | | |
|----------------------|-----------------------------------|----------------------------------|---------------------------|
| Safety Glasses | Splash Goggles | Face Shield & Protective Eyewear | Gloves |
| Boots | Protective Apron | Protective Clothing & Full Suit | Dust Respirator |
| Full Face Respirator | Dust & Vapor Half-Mask Respirator | Full Face Respirator | Airline Hood/Mask or SCBA |

OTHER STANDARD ABBREVIATIONS:

| | |
|---------|--|
| Carc | Carcinogenic |
| Irrit | Irritant |
| NA | Not Available |
| NR | No Results |
| ND | Not Determined |
| NE | Not Established |
| NF | Not Found |
| SCBA | Self-Contained Breathing Apparatus |
| Sens | Sensitization |
| STOT RE | Specific Target Organ Toxicity – Repeat Exposure |
| STOT SE | Specific Target Organ Toxicity – Single Exposure |

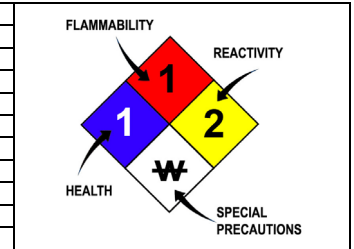
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

| | |
|--------------------------|---|
| Autoignition Temperature | Minimum temperature required to initiate combustion in air with no other source of ignition |
| LEL | Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source |
| UEL | Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source |

HAZARD RATINGS:

| | |
|---------|-----------------|
| 0 | Minimal Hazard |
| 1 | Slight Hazard |
| 2 | Moderate Hazard |
| 3 | Severe Hazard |
| 4 | Extreme Hazard |
| ACD | Acidic |
| ALK | Alkaline |
| COR | Corrosive |
| W | Use No Water |
| OX | Oxidizer |
| TREFOIL | Radioactive |



TOXICOLOGICAL INFORMATION:

| | |
|---|---|
| LD ₅₀ | Lethal Dose (solids & liquids) which kills 50% of the exposed animals |
| LC ₅₀ | Lethal concentration (gases) which kills 50% of the exposed animal |
| ppm | Concentration expressed in parts of material per million parts |
| TD ₁₀ | Lowest dose to cause a symptom |
| TCLo | Lowest concentration to cause a symptom |
| TD ₁₀ , LD ₁₀ , & LD ₀ or TC, TC ₀ , LC ₁₀ , & LC ₀ | Lowest dose (or concentration) to cause lethal or toxic effects |
| IARC | International Agency for Research on Cancer |
| NTP | National Toxicology Program |
| RTECS | Registry of Toxic Effects of Chemical Substances |
| BCF | Bioconcentration Factor |
| TL _m | Median threshold limit |
| log K _{ow} or log K _{oc} | Coefficient of Oil/Water Distribution |

REGULATORY INFORMATION:

| | |
|-------|--|
| WHMIS | Canadian Workplace Hazardous Material Information System |
| DOT | U.S. Department of Transportation |
| TC | Transport Canada |
| EPA | U.S. Environmental Protection Agency |
| DSL | Canadian Domestic Substance List |
| NDSL | Canadian Non-Domestic Substance List |
| PSL | Canadian Priority Substances List |
| TSCA | U.S. Toxic Substance Control Act |
| EU | European Union (European Union Directive 67/548/EEC) |
| WGK | Wassergefährdungsklassen (German Water Hazard Class) |

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

| | | | | | | | |
|------------|-----------|-----------|----------|------------|------------|-----------|----------|
| | | | | | | | |
| Class A | Class B | Class C | Class D1 | Class D2 | Class D3 | Class E | Class F |
| Compressed | Flammable | Oxidizing | Toxic | Irritation | Infectious | Corrosive | Reactive |

CLP/GHS (1272/2008/EC) PICTOGRAMS:

| | | | | | | | | |
|-----------|-----------|----------|-------------|-----------|-------|--------------------|---------------|-------------|
| | | | | | | | | |
| GHS01 | GHS02 | GHS03 | GHS04 | GHS05 | GHS06 | GHS07 | GHS08 | GHS09 |
| Explosive | Flammable | Oxidizer | Pressurized | Corrosive | Toxic | Harmful Irritating | Health Hazard | Environment |