

Page 1 of 7 **D5L**

MSDS Revision: 1.0 Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision Date: 11/01/2003 1. PRODUCT IDENTIFICATION **CHEMICAL RESPONSE CARD:** 04 1.1 Product Name: **RESPONSE** DeoxIT Power Booster, D5L, 5% Liquid 1.2 Chemical Name: TEAM PPE: See ingredients listed in section 2 1.3 Synonyms: DeoxIT Power Booster, D5L, 5% Liquid WHMIS: 1.4 Trade Names: DeoxIT Power Booster, D5L, 5% Liquid 1.5 Product Use: Clean, deoxidize & improve electrical contacts & connectors **HEALTH:** 1 1.6 Manufacturer's Name: 2 CAIG Laboratories, Inc. FLAMMABILITY: 1.7 Manufacturer's Address: 12200 Thatcher Court, Poway, CA 92064-6876 **REACTIVITY:** 0 1.8 Business Phone: +1 (800)-224-4123 PERSONAL PROTECTION: В 1.9 Emergency Phone: CHEMTREC 1-800-424-9300/1-703-527-3887 1.10 Other Product Names: DeoxIT Power Booster, D5L-25C, 5% Liquid, 25 ml DeoxIT Power Booster, D5L-4, 5% Liquid, 118 ml DeoxIT Power Booster, D5L-12, 5% Liquid, 354 ml

2. COMPOSITION & INGREDIENT INFORMATION

DeoxIT Power Booster, D5L-32, 5% Liquid, 944 ml DeoxIT Power Booster, D5L-5G, 5% Liquid, 30 L DeoxIT Power Booster, D5L-55G, 5% Liquid, 55 gallon

| | 2. 00/ | <u> </u> | 1 & 111011 | DILITI | 1111 01 | WWW. | /11 | | | |
|----------------------------|--------------|------------|------------|--------|------------|-------------|------------|-------------|-------------|-------|
| | | | | | | EXPO | SURE LIMI | TS IN AIR (| (mg/m³) | |
| | | | | | AC | GIH | | OSHA | | OTHER |
| CHEMICAL NAME(S) | CAS No. | RTECS No. | EINECS No. | % | TLV ppm | STEL ppm | PEL ppm | STEL ppm | IDLH ppm | |
| PETROLEUM NAPHTHA | 64742-88-7 | X\$5250000 | 265-191-7 | ≤ 95 | 100 | NE | 100 | NE | NE | |
| DeoxIT Power Booster D100L | TRADE SECRET | | | ≤ 5 | NE | NE | NE | NE | NE | |
| | | | | | | | | | | |

NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2003 format.



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| | ared to OSHA, AC | CC, ANSI, WHMIS & 2001/58 EC Standards | MS | SDS Revision: 1.0 | MSE | OS Revision Date: 1 | 1/01/2003 | 3 |
|-----|---|---|---|--|---|--|------------------------|-------------------------|
| | | 2 UA7ADD II | ENITIE | IC ATION | | | | |
| 3.1 | Hazard Identification | 3. HAZARD II | CINIIF | ICATION | | | | |
| | concentration. | le liquid with ethereal and faint sweetish odor At higher levels, CNS depression and cardiac tion in confined spaces. | | | | | | |
| .2 | Routes of Entry: | Inhalation: | YES | Absorption: | YES | Ingestion: | YE | S |
| .3 | Effects of Exposure: EYES: SKIN: INGESTION: INHALATION: | Mild to moderate irritation. Irritant and potential skin sensitizer. Prolor redness or rash). Gastrointestinal irritation and central nervous Central nervous system depressant. Irritating | system o | lepression. | , | se contact dermo | utitis (locc | alize |
| 3.4 | Symptoms of Overex EYES: SKIN: INGESTION: INHALATION: | Dosure: Mild irritation, redness, and watering. Contact dermatitis, characterized by localized Nausea, vomiting, and diarrhea. Mouth, nose, and throat irritation, dizziness, n | d red or | puffy dry skin and | itching. | s, and loss of coord | dination. | |
| .5 | Acute Health Effects: INGESTION: EYES: SKIN: INGESTION: INHALATION: | Gastrointestinal irritation and central nervous Mild to moderate irritation. Irritant and potential skin sensitizer. Prolor redness or rash). Gastrointestinal irritation and central nervous Central nervous system depressant. Irritating | iged or system o | repeated contact | - | se contact dermo | utitis (loco | alized |
| .6 | Chronic Health Effect EYES: SKIN: | Mild to moderate irritation. Irritant and potential skin sensitizer. Prolor | iged or | repeated contact | may cau | se contact dermo | ıtitis (loco | alize |
| | INGESTION: INHALATION: | redness or rash). Gastrointestinal irritation and central nervous Central nervous system depressant. Irritating | - | • | ct. | | | |
| .7 | INHALATION: Target Organs: | Gastrointestinal irritation and central nervous Central nervous system depressant. Irritating | - | • | ct. | | | |
| .7 | INHALATION: Target Organs: | Gastrointestinal irritation and central nervous | - | • | ct. | | | |
| .7 | INHALATION: Target Organs: | Gastrointestinal irritation and central nervous Central nervous system depressant. Irritating espiratory system. | to the up | per respiratory tra | ct. | | | |
| | INHALATION: Target Organs: | Gastrointestinal irritation and central nervous Central nervous system depressant. Irritating | D MEA | SURES er for at least 15 | minutes, h | olding eyelid(s) o | pen to e | nsur |
| | INHALATION: Target Organs: Eyes, skin and re | Gastrointestinal irritation and central nervous Central nervous system depressant. Irritating espiratory system. 4. FIRST All Flush eyes thoroughly with copious amount | D MEA | SURES er for at least 15 e medical attentior areas with soap a | minutes, h 1. nd water. | If irritation persists | | |
| | INHALATION: Target Organs: Eyes, skin and re First Aid: EYES: SKIN: INGESTION: | Gastrointestinal irritation and central nervous Central nervous system depressant. Irritating espiratory system. 4. FIRST All Flush eyes thoroughly with copious amount complete flushing. If irritation persists, seek in Remove contaminated clothing and wash a medical attention. Do not wear contaminated Drink plenty of water. If irritation persists, con | D MEA s of wat nmediate diffected d clothin | SURES er for at least 15 e medical attentior areas with soap are guntil after it has beysician. | minutes, h n. nd water. peen prope | If irritation persists | s, seek pi | romį |
| | INHALATION: Target Organs: Eyes, skin and re First Aid: EYES: SKIN: | Gastrointestinal irritation and central nervous Central nervous system depressant. Irritating espiratory system. 4. FIRST All Flush eyes thoroughly with copious amount complete flushing. If irritation persists, seek in Remove contaminated clothing and wash a medical attention. Do not wear contaminated | D MEA s of wat nmediate affected d clothin tact a pr ning is di | SURES er for at least 15 e medical attention areas with soap are guntil after it has bysician. | minutes, h n. nd water. peen prope | If irritation persists | s, seek pi | romp |
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| .1 | INHALATION: Target Organs: Eyes, skin and re First Aid: EYES: SKIN: INGESTION: INHALATION: Medical Conditions A | Gastrointestinal irritation and central nervous Central nervous system depressant. Irritating espiratory system. 4. FIRST All Flush eyes thoroughly with copious amount complete flushing. If irritation persists, seek in Remove contaminated clothing and wash a medical attention. Do not wear contaminate Drink plenty of water. If irritation persists, con Remove victim to fresh air at once. If breat medical attention. If breathing stops, perform | D MEA s of wat nmediate affected d clothin tact a pr ning is di | er for at least 15 e medical attention areas with soap are gruntil after it has bysician. | minutes, h n. nd water. peen prope supplemen | If irritation persists erly cleaned. tal oxygen and se | s, seek pi | romp ediat |
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Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 11/01/2003 5. FIREFIGHTING MEASURES Flashpoint & Method: 48.8 °C - 54.4 °C (120 °F - 130 °F). 52 Autoignition Temperature: NΔ Flammability Limits: 5.3 Lower Explosive Limit (LEL): NA Upper Explosive Limit (UEL): NA Fire & Explosion Hazards: 5.4 Carbon dioxide, carbon monoxide, hydrocarbons. 5.5 Extinguishing Methods: CO₂, Alcohol foam, Dry Chemical, Water Fog 5.6 Firefighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Use a water spray to cool containers involved in fire. Do not use direct water stream. Container storage areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. Keep containers cool until well after the fire is out to prevent rupture. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES Secure spill area and deny entry to all unprotected individuals. Individuals involved in the cleanup should wear appropriate personal protective equipment. Area may become slippery. Absorb product onto porous material, such as sand, clay, diatomaceous earth or commercial absorbent material. Place into leak-proof, U.S. DOT-approved containers. If necessary, cover all drains and dike well ahead of the spill to prevent runoff into sewers, drains, and all waterways. Contact appropriate local or provincial authorities for assistance and/or reporting requirements. 7. HANDLING & STORAGE INFORMATION 7 1 Work & Hygiene Practices: Wash hands thoroughly after using this product and before eating, drinking, or smoking. Remove soiled clothing to prevent prolonged skin contact. 72 Storage & Handling: Store at temperatures between 59 °F and 95 °F (15 °C and 35 °C) in a dry, well-ventilated location. Keep away from heat, sparks, open flame, and other sources of ignition. Normal shelf-life: 2-3 years. 7.3 Special Precautions: Empty containers can contain flammable vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8 1 Ventilation & Engineering Controls Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). 82 Respiratory Protection: None required, when used with adequate ventilation. 8.3 Wear safety glasses with side shields (ANSI Z87) under normal use conditions. 8.4 None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. In such cases, wear rubber or impervious plastic gloves. **Body Protection:** 8.5 Use as necessary to prevent skin contact.



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| | pared to OSHA, ACC, ANSI, WHI | | | |
|--|---|--|--|---|
| | | 9. PHYSICAL & CI | HEMICAL PROPERTIES | |
| .1 | Density: | 0.75 | TENTIONE I ROT ERTIES | |
| .2 | Boiling Point: | 171.1 °C – 204 °C @ 760 mmHg | 7 | |
| .3 | Melting Point: | NA | 5 | |
| .4 | Evaporation Rate: | NA NA | | |
| .5 | Vapor Pressure: | 35 psig @ 20 °C, 50 psig @ 50 ° | PC: | |
| .6 | Molecular Weight: | NA | | |
| .7 | Appearance & Color: | Light red liquid | | |
| .8 | Odor Threshold: | Ethereal/hydrocarbon odor | | |
| .9 | Solubility: | Not soluble in water | | |
| 2.10 | На | ND | | |
| 9.11 | Viscosity: | 10.0 cps | | |
| 2.12 | Other Information: | Vapor Density = 4.9 (Air = 1.0) | | |
| | | 1 1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | | |
| | | 10. STABILIT | Y & REACTIVITY | |
| 0.1 | Stability: | Stable under normal condition | ns of use (see section 7). | |
| 0.2 | Hazardous Decomposition Products: | Change in color signifies expunstable products. Discard so | | exceeding shelf life. Will not degrade |
| 0.3 | Hazardous Polymerization: | Will not occur. | | |
| 0.4 | Conditions to Avoid: | Use or storage near open flar incompatible substances and | | F) or other heat sources, and proximity |
| 0 E | Incompatible Substances: | Strong oxidizers. | • | |
| | Toxicity Data: | This product has not been tes | | |
| | Toxicity Data: | This product has not been tes | ted on animals to obtain toxic oduct, which are found in the | |
| 1.1 | Toxicity Data: Acute Toxicity: | This product has not been tes for the components of this pr | ted on animals to obtain toxic oduct, which are found in the | |
| 1.1 | | This product has not been tes for the components of this pr been presented in this docum | ted on animals to obtain toxic oduct, which are found in the | |
| 1.1 | Acute Toxicity: | This product has not been tes for the components of this pr been presented in this docum See section 3.5 | ted on animals to obtain toxic oduct, which are found in the | |
| 1.1 | Acute Toxicity: Chronic Toxicity: | This product has not been tes for the components of this pr been presented in this docum See section 3.5 See section 3.6 NE This product is not reported to | ted on animals to obtain toxic oduct, which are found in the nent. produce reproductive toxicity | scientific literature. These data have r |
| 1.1 1.2 1.3 | Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: | This product has not been tes for the components of this pr been presented in this docum See section 3.5 See section 3.6 NE This product is not reported to This product is not reported to | ted on animals to obtain toxic oduct, which are found in the nent. produce reproductive toxicity produce mutagenic effects in | scientific literature. These data have not |
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| 1.1 1.2 1.3 | Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: | This product has not been tes for the components of this pr been presented in this docum. See section 3.5 See section 3.6 NE This product is not reported to | produce reproductive toxicity produce embryotoxic effects in produce teratogenic effects in produce teratogenic effects in produce teratogenic effects in | r in humans. |
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| 1.1 1.2 1.3 1.4 1.5 | Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: | This product has not been tes for the components of this pr been presented in this docum. See section 3.5 See section 3.6 NE This product is not reported to See Section 3.3 | produce reproductive toxicity produce embryotoxic effects in produce teratogenic effects in produce teratogenic effects in produce teratogenic effects in | r in humans. |
| 1.1 1.2 1.3 1.4 1.5 | Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: | This product has not been tes for the components of this pr been presented in this docum See section 3.5 See section 3.6 NE This product is not reported to | produce reproductive toxicity produce embryotoxic effects in produce teratogenic effects in produce teratogenic effects in produce teratogenic effects in | r in humans. |
| 1.1 1.2 1.3 1.4 1.5 | Acute Toxicity: Chronic Toxicity: Suspected Carcinogen; Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: | This product has not been test for the components of this probeen presented in this documents. See section 3.5 See section 3.6 NE This product is not reported to the see Section 3.3 NE Treat symptomatically. | produce reproductive toxicity produce embryotoxic effects in produce teratogenic effects in produce teratogenic effects in produce reproductive effects produce teratogenic effects in produce reproductive effects in produce reproductive effects | r in humans. |
| 11.1 11.2 11.3 11.4 11.5 | Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: | This product has not been test for the components of this probeen presented in this documents. See section 3.5 See section 3.6 NE This product is not reported to the see Section 3.3 NE Treat symptomatically. | produce reproductive toxicity produce embryotoxic effects in produce teratogenic effects in produce reproductive effects produce reproductive effects. | r in humans. humans. in humans. in humans. in humans. in humans. in humans. in humans. |
| 1.1 1.2 1.3 1.4 1.5 | Acute Toxicity: Chronic Toxicity: Suspected Carcinogen; Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: | This product has not been test for the components of this probeen presented in this documents. See section 3.5 See section 3.6 NE This product is not reported to the see Section 3.3 NE Treat symptomatically. | produce reproductive toxicity produce embryotoxic effects in produce teratogenic effects in produce reproductive effects produce reproductive effects. | humans. in humans. n humans. |
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| 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 | Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: | This product has not been test for the components of this probeen presented in this docume. See section 3.5 See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically. 12. ECOLOGIC This product will slowly volation organic compounds. There is no specific data available. | produce reproductive toxicity produce mutagenic effects in produce teratogenic effects in produce teratogenic effects in produce reproductive effects in produce reproductive effects in produce reproductive effects in produce reproductive effects. | scientific literature. These data have not |
| 111.1 111.2 111.3 111.4 111.5 111.6 111.7 111.8 | Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals: | This product has not been test for the components of this probeen presented in this docume. See section 3.5 See section 3.6 NE This product is not reported to this product is not reported | produce reproductive toxicity produce mutagenic effects in produce teratogenic effects in produce teratogenic effects in produce reproductive effects in produce reproductive effects in produce reproductive effects in produce reproductive effects. | r in humans. humans. in humans. in humans. in humans. in humans. in humans. in humans. |
| 11.1 11.2 11.3 11.4 11.5 | Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals: Effects on Aquatic Life: | This product has not been test for the components of this probeen presented in this docume. See section 3.5 See section 3.6 NE This product is not reported to this product is not reported | produce reproductive toxicity produce mutagenic effects in produce teratogenic effects in produce teratogenic effects in produce reproductive effects in produce reproductive effects in produce reproductive effects. CAL INFORMATION ille from soil. Components of lable for this product. Of this product are expected. | scientific literature. These data have not |



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MSDS Revision: 1.0

MSDS Revision Date: 11/01/2003

14. TRANSPORTATION INFORMATION

The basic description (proper shipping name, hazard class & division, ID Number, 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):

NOT REGULATED PER 49 CFR 173.150(f)

14.2

CONSUMER COMMODITY, 9, ID8000 (≤ 500 ml)

PETROLEUM DISTILLATES, N.O.S., 3, UN1268, III (> 500 ml)

14.3 IMDG (OCN):

PETROLEUM DISTILLATES, N.O.S., 3, UN1268, III, LTD QTY (≤ 5.0 L)

PETROLEUM DISTILLATES, N.O.S., 3, UN1268, III (> 5.0 L)

144 TDGR (Canadian GND):

MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 5.0 L)

PETROLEUM DISTILLATES, N.O.S., 3, UN1268, III (> 5.0 L)

1268 PETROLEUM DISTILLATES, N.O.S., 3, 3°(c), ADR, LTD QTY (< 5.0 L)

1268 PETROLEUM DISTILLATES, N.O.S., 3, 3°(c), ADR (> 5.0 L)



15. REGULATORY INFORMATION

SARA Reporting Requirements: 15.1

15.2 SARA Threshold Planning Quantity:

NA

15.3 TSCA Inventory Status:

All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.

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 Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.



15.7 State Regulatory Information:

> The primary component of this product is not listed on the following state lists: California OSHA; California Proposition 65; Massachusetts Right to Know List of Chemicals; New Jersey Right to Know List 8:59 Appendix A; Pennsylvania Hazardous Substances List 34 323 Appendix A; Wisconsin Hazardous Substances List NR 605.09; Minnesota Hazardous Substances List; and Florida Toxic Substances List.

15.8 67/548/EEC (European Union) Requirements:

The primary component of this product is listed in Annex I of EU Directive 67/548/EEC:

Petroleum Naphtha: Flammable, Harmful (F, Xn). R: 10-65 - Flammable, Harmful: may cause lung damage if swallowed. S: 2-23-24-62 - Keep away from children. Do not breathe gas, fumes, vapor or spray. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this MSDS or the container label.







http://www.shipmate.com/

MATERIAL SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 11/01/2003 16. OTHER INFORMATION Other Information: NA 16.2 Terms & Definitions: See page 7 of this MSDS. 16.3 Disclaimer: This Material 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 & CAIG Laboratories, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are 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: CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 +1 (800) CAIG-123 (244-4123) phone +1 (858) 486-8398 fax http://www.caig.com/ 16.5 Prepared by: ShipMate, Inc. **ShipMate** 18436 Hawthorne Blvd., Suite 201 Torrance, CA 90504 310-370-3600 phone 310-370-5700 fax



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DEFINITION OF TERMS

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

GENERAL INFORMATION:

| CAS No. Chemical Abstract Service Number |
|--|
|--|

EXPOSURE LIMITS IN AIR:

| ACGIH | American Conference on Governmental Industrial Hygienists |
|-------|---|
| TLV | Threshold Limit Value |
| OSHA | U.S. Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| IDLH | Immediately Dangerous to Life and Health |

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. |

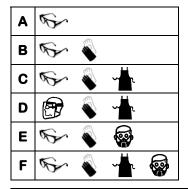
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:







OTHER STANDARD ABBREVIATIONS:

| NA | Not Available |
|------|------------------------------------|
| NR | No Results |
| NE | Not Established |
| ND | Not Determined |
| ML | Maximum Limit |
| SCBA | Self-Contained Breathing Apparatus |

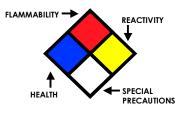
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

| Autoignition | Minimum temperature required to initiate combustion |
|--------------|--|
| Temperature | 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 |
| | |



TOXICOLOGICAL INFORMATION:

| LD ₅₀ | Lethal Dose (solids & liquids) which kills 50% of the exposed animals s |
|--|---|
| LC ₅₀ | Lethal concentration (gases) which kills 50% of the exposed animal |
| ppm | Concentration expressed in parts of material per million parts |
| TD _{lo} | Lowest dose to cause a symptom |
| TCLo | Lowest concentration to cause a symptom |
| TD _{io} , LD _{io} , & LD _o or | Lowest dose (or concentration) to cause lethal or |
| TC, TCo, LCio, & LCo | toxic effects |
| IARC | International Agency for Research on Cancer |
| NTP | National Toxicology Program |
| RTECS | Registry of Toxic Effects of Chemical Substances |
| BCF | Bioconcentration Factor |
| TLm | Median threshold limit |
| log Kow or log Koc | 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) |

EC INFORMATION:

| 114 | | N | * | | 9 | X | X |
|-----------|-----------|-----------|---------|-----------|----------|----------|---------|
| С | E | F | N | 0 | T+ | Xi | Xn |
| Corrosive | Explosive | Flammable | Harmful | Oxidizing | Toxic | Irritant | Harmful |