



# SAFETY DATA SHEET

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

SDS Revision: 5.6

SDS Revision Date: 7/2/2021

## 1. PRODUCT & COMPANY IDENTIFICATION

|     |                        |   |
|-----|------------------------|---|
| 1.1 | Product Name:          | <b>GRANITE GOLD POLISH PROTECTOR<br/>GRANITE GOLD POLISH PROTECTOR WIPES</b>      |
| 1.2 | Chemical Name:         | Aqueous Solution  |
| 1.3 | Synonyms:              | GG00174; GG0049; GG0033; GG0059   |
| 1.4 | Trade Names:           | Granite Gold Polish Protector (207-006001-1); Granite Gold Polish Protector Wipes |
| 1.5 | Product Use:           | Cleaner & Polish  |
| 1.6 | Distributor's Name:    | Granite Gold, Inc.  |
| 1.7 | Distributor's Address: | 9170 Chesapeake Drive, San Diego CA 92123 USA                                     |
| 1.8 | Emergency Phone:       | <b>CHEMTREC +1 (703) 527-3887 / +1 (800) 424-9300</b>                             |
| 1.9 | Business Phone / Fax:  | Tel: +1 (858) 499-8933  |

## 2. HAZARDS IDENTIFICATION

|     |                        |   |
|-----|------------------------|---|
| 2.1 | Hazard Identification: | Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.1200. Canadian WHMIS and Australian Work Health and Safety. This product is classified as hazardous according to the OSHA 2012 Hazardous Communication 2012 final rule<br><b>WARNING! CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION.</b><br><u>Classification:</u> Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2B  |
| 2.2 | Label Elements:        | <b>Hazard Statements (H):</b> H315 – Causes skin irritation. H317 – May cause an allergic skin reaction. H320 – Causes eye irritation.<br><b>Precautionary Statements (P):</b> P261 – Avoid breathing mist/spray. P280 – Wear protective gloves/ eye protection. P302+P352 – IF ON SKIN: Was with plenty of soap and water. P333+P313 – If skin irritation or rash occurs: Get medical advice/attention. P321 Specific treatments see this container label and section 4 First Aid of this SDS. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – If eye irritation persists: Get medical advice/attention. P362 – Take off contaminated clothing and wash before reuse. P501 - Dispose of contents/ container to an approved waste disposal plant. |
| 2.3 | Other Warnings:        | In the event of an exposure or medical inquiry involving this product, please contact a physician or local poison control center, who may seek advice from the U.S. manufacturer, and show them this SDS.<br><b>KEEP OUT OF REACH OF CHILDREN.</b>  |



## 3. COMPOSITION & INGREDIENT INFORMATION

| CHEMICAL NAME(S) | CAS No.   | RTECS No. | EINECS No. | %      | EXPOSURE LIMITS IN AIR (mg/m <sup>3</sup> ) |      |        |         |         |      |      |      |   | OTHER |
|------------------|-----------|-----------|------------|--------|---|------|--------|---------|---------|------|------|------|---|-------|
|                  |           |           |            |        | ACGIH                                       |      | NOHSC  |         |         | OSHA |      |      |   |       |
|                  |           |           |            |        | ppm   |      | ppm    |         |         | ppm  |      |      |   |       |
|                  |           |           |            |        | TLV   | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL  | STEL | IDLH |   |       |
| WATER (AQUA)     | 7732-18-5 | ZC0110000 | 231-191-2  | 60-100 | NE  | NE   | NF     | NF      | NF      | NE   | NE   | NE   |   |       |
| PROPRIETARY      | NA        | NA        | NA         | 0-10   | NA  | NA   | NF     | NF      | NF      | NA   | NA   | NA   | Skin Irrit. 2; Skin Corr. 1B; Eye Irrit. 2; Skin Sens.1; H317, H314, H315, H319 |       |

## 4. FIRST AID MEASURES

|     |                      |   |
|-----|----------------------|---|
| 4.1 | First Aid:           | <b>Ingestion:</b> <b>DO NOT INDUCE VOMITING.</b> Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.<br><b>Eyes:</b> Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medical attention.<br><b>Skin:</b> Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.<br><b>Inhalation:</b> Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek immediate medical attention. If breathing stops, perform artificial respiration. |
| 4.2 | Effects of Exposure: | <b>Ingestion:</b> If product is swallowed, may cause nausea, vomiting and/or diarrhea.<br><b>Eyes:</b> This product can cause transient mild eye irritation with short-term contact with liquid sprays or mists.<br><b>Skin:</b> This product can cause mild, transient skin irritation with short-term exposure.<br><b>Inhalation:</b> Exposure may cause respiratory tract irritation in some sensitive individuals.  |



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## 4. FIRST AID MEASURES – cont'd

|                             |  |   |  |  |  |               |  |          |                     |  |          |                         |  |          |                             |  |          |             |             |  |
|-----------------------------|--|---|--|--|--|---------------|--|----------|---------------------|--|----------|-------------------------|--|----------|-----------------------------|--|----------|-------------|-------------|--|
| 4.3                         | Symptoms of Overexposure:                  | Moderate irritation to eyes. Moderate irritation to skin near affected areas. Acute health hazards may be delayed. Most common symptoms include irritating properties to eyes, respiratory system and skin.   |  |  |  |               |  |          |                     |  |          |                         |  |          |                             |  |          |             |             |  |
| 4.4                         | Acute Health Effects:                      | <p><b>Skin:</b> Prolonged contact with skin may result in bleaching and irritation of skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas.</p> <p><b>Eyes:</b> Overexposure in eyes may cause redness, itching and watering (risk of serious damage to eyes). Contact may cause serious eye irritation including stinging, watering, redness.</p> |  |  |  |               |  |          |                     |  |          |                         |  |          |                             |  |          |             |             |  |
| 4.5                         | Chronic Health Effects:                    | No harmful or chronic health effects are expected to occur from a single accidental ingestion. These ingredients may be irritating to skin and mucous membrane of the eye and respiratory system. Overexposure may trigger asthma-like symptoms in some sensitive individuals. May also induce skin sensitization and respiratory hypersensitivity. Possible allergic dermatitis.   |  |  |  |               |  |          |                     |  |          |                         |  |          |                             |  |          |             |             |  |
| 4.6                         | Target Organs:                             | Skin, Eyes  |  |  |  |               |  |          |                     |  |          |                         |  |          |                             |  |          |             |             |  |
| 4.7                         | Medical Conditions Aggravated by Exposure: | Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, skin, and respiratory system) or impaired kidney function may be more susceptible to the effects of this substance.   |  | <table border="1"> <tr><td colspan="2"><b>HEALTH</b></td><td><b>1</b></td></tr> <tr><td colspan="2"><b>FLAMMABILITY</b></td><td><b>0</b></td></tr> <tr><td colspan="2"><b>PHYSICAL HAZARDS</b></td><td><b>0</b></td></tr> <tr><td colspan="2"><b>PROTECTIVE EQUIPMENT</b></td><td><b>B</b></td></tr> <tr><td><b>EYES</b></td><td><b>SKIN</b></td><td></td></tr> </table> |  | <b>HEALTH</b> |  | <b>1</b> | <b>FLAMMABILITY</b> |  | <b>0</b> | <b>PHYSICAL HAZARDS</b> |  | <b>0</b> | <b>PROTECTIVE EQUIPMENT</b> |  | <b>B</b> | <b>EYES</b> | <b>SKIN</b> |  |
| <b>HEALTH</b>               |  | <b>1</b>  |  |  |  |               |  |          |                     |  |          |                         |  |          |                             |  |          |             |             |  |
| <b>FLAMMABILITY</b>         |  | <b>0</b>  |  |  |  |               |  |          |                     |  |          |                         |  |          |                             |  |          |             |             |  |
| <b>PHYSICAL HAZARDS</b>     |  | <b>0</b>  |  |  |  |               |  |          |                     |  |          |                         |  |          |                             |  |          |             |             |  |
| <b>PROTECTIVE EQUIPMENT</b> |  | <b>B</b>  |  |  |  |               |  |          |                     |  |          |                         |  |          |                             |  |          |             |             |  |
| <b>EYES</b>                 | <b>SKIN</b>                                |   |  |  |  |               |  |          |                     |  |          |                         |  |          |                             |  |          |             |             |  |

## 5. FIREFIGHTING MEASURES

|     |                           |  |  |
|-----|---------------------------|--|--|
| 5.1 | Fire & Explosion Hazards: | Will not burn, but decomposition, which may be caused by heat, will release oxygen which will increase the explosive limit range and burning rate of flammable vapors. As a result of combustion and thermal decomposition, oxidation products may form and exposure to such products may result in health hazards   |  |
| 5.2 | Extinguishing Methods:    | Foam, CO <sub>2</sub> , Water Fog or Dry Chemical  |  |
| 5.3 | Firefighting Procedures:  | Fight fires as for surrounding materials. Firefighters should wear a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Cool containers with water spray to prevent pressure build-up, auto-ignition or explosion. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. |  |

## 6. ACCIDENTAL RELEASE MEASURES

|     |         |   |
|-----|---------|---|
| 6.1 | Spills: | <p>Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. <b>CAUTION – May be slippery if spilled.</b></p> <p>For <b>small spills</b> (e.g., &lt; 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows). Remove spilled material with absorbent material 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.</p> <p>For <b>large spills</b> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.</p> |
|-----|---------|---|

## 7. HANDLING & STORAGE INFORMATION

|     |                           |   |
|-----|---------------------------|---|
| 7.1 | Work & Hygiene Practices: | Use normal hygiene practices. Avoid direct skin contact. Wash hands thoroughly after using this product and before eating, drinking, or smoking. Good personal hygiene practices, such as washing any skin contact areas and removing contaminated clothing, are recommended. |
| 7.2 | Storage & Handling:       | Keep away from sources of heat.   |
| 7.3 | Special Precautions:      | Follow all instructions on product label. Keep container closed when not in use. Keep this and all chemicals out of reach of children.  |

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

|                  |  |   |      |        |         |         |      |      |      |       |
|------------------|--|---|------|--------|---------|---------|------|------|------|-------|
| 8.1              | Exposure Limits:<br>ppm (mg/m <sup>3</sup> ) | ACGIH   |      | NOHSC  |         |         | OSHA |      |      | OTHER |
|                  |  | TLV   | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL  | STEL | IDLH |       |
| CHEMICAL NAME(S) |  | NA  | NA   | NF     | NF      | NF      | NA   | NA   | NA   |       |
| 8.2              | Ventilation & Engineering Controls:          | General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. |      |        |         |         |      |      |      |       |
| 8.3              | Respiratory Protection:                      | Not required under normal conditions of use.  |      |        |         |         |      |      |      |       |
| 8.4              | Eye Protection:                              | Avoid eye contact. Use approved safety glasses or goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  |      |        |         |         |      |      |      |       |




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## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd

|     |                  |  |   |
|-----|------------------|--|---|
| 8.5 | Hand Protection: | If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. 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: | Not required under normal conditions of use. Use appropriate protective equipment (e.g., apron) as necessary to prevent or reduce exposure if frequent or prolonged contact is expected; refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA. |   |

## 9. PHYSICAL & CHEMICAL PROPERTIES

|      |   |                             |
|------|---|-----------------------------|
| 9.1  | Appearance:                                   | Milky white liquid          |
| 9.2  | Odor:   | Fresh lemon citrus scent    |
| 9.3  | Odor Threshold:                               | NA                          |
| 9.4  | pH:   | 7.0-8.0                     |
| 9.5  | Melting Point/Freezing Point:                 | NA                          |
| 9.6  | Initial Boiling Point/Boiling Range:          | 100 °C (212 °F) @ 760 mm Hg |
| 9.7  | Flashpoint:                                   | ND                          |
| 9.8  | Upper/Lower Flammability Limits:              | ND                          |
| 9.9  | Vapor Pressure:                               | < 30                        |
| 9.10 | Vapor Density:                                | NA                          |
| 9.11 | Relative Density:                             | 1.00                        |
| 9.12 | Solubility:                                   | Complete                    |
| 9.13 | Partition Coefficient (log P <sub>ow</sub> ): | NA                          |
| 9.14 | Autoignition Temperature:                     | ND                          |
| 9.15 | Decomposition Temperature:                    | NA                          |
| 9.16 | Viscosity:                                    | NA                          |
| 9.17 | Other Information:                            | 0% VOC                      |

## 10. STABILITY & REACTIVITY

|      |                                   |  |
|------|-----------------------------------|--|
| 10.1 | Stability:                        | Stable under normal conditions of use.           |
| 10.2 | Hazardous Decomposition Products: | None known.                                      |
| 10.3 | Hazardous Polymerization:         | Will not occur.                                  |
| 10.4 | Conditions to Avoid:              | Strong oxidizers.                                |
| 10.5 | Incompatible Substances:          | Strong oxidizing agents, strong acids and bases. |

## 11. TOXICOLOGICAL INFORMATION

|      |                              |   |                 |               |
|------|------------------------------|---|-----------------|---------------|
| 11.1 | Routes of Entry:             | Inhalation: YES   | Absorption: YES | Ingestion: NO |
| 11.2 | Toxicity Data:               | This 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. These data have not been presented in this document. This product is neither a primary eye nor primary skin irritant per Federal Hazardous Substances Act (FHSA) regulations. |                 |               |
| 11.3 | Acute Toxicity:              | See Section 4.4.  |                 |               |
| 11.4 | Chronic Toxicity:            | See Section 4.5.  |                 |               |
| 11.5 | Suspected Carcinogen:        | This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>  |                 |               |
| 11.6 | Reproductive Toxicity:       | This product is not reported to produce reproductive toxicity 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 effects in humans.   |                 |               |
| 11.7 | Irritancy of Product:        | See Section 4.2.  |                 |               |
| 11.8 | Biological Exposure Indices: | NE  |                 |               |
| 11.9 | Physician Recommendations:   | Treat symptomatically.  |                 |               |

## 12. ECOLOGICAL INFORMATION

|      |                              |  |
|------|------------------------------|--|
| 12.1 | Environmental Stability:     | There are no specific data available for this product. |
| 12.2 | Effects on Plants & Animals: | There are no specific data available for this product. |
| 12.3 | Effects on Aquatic Life:     | There are no specific data available for this product. |



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## 13. DISPOSAL CONSIDERATIONS


|      |                         |   |
|------|-------------------------|---|
| 13.1 | Waste Disposal:         | Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. |
| 13.2 | Special Considerations: | NA  |

## 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):        | NOT REGULATED |
| 14.2 | IATA (AIR):          | NOT REGULATED |
| 14.3 | IMDG (OCN):          | NOT REGULATED |
| 14.4 | TDGR (Canadian GND): | NOT REGULATED |
| 14.5 | ADR/RID (EU):        | NOT REGULATED |
| 14.6 | SCT (MEXICO):        | NOT REGULATED |
| 14.7 | ADGR (AUS):          | NOT REGULATED |

## 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 TPQ:                     | 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:   | NA   |
| 15.5 | Other Federal Requirements:   | This material does not contain any hazardous air pollutants. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under the CWA.  |
| 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/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects).   |
| 15.7 | State Regulatory Information: | No 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). This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> . |
| 15.8 | Other Requirements:           | This product is found on the following inventory lists: Australia - AICS, China - IECSC, Europe - ELINCS/EINEC, Japan - ENCS; Korea - KECL; New Zealand - NZIoC; {Philippines - PICCS; USA - TSCA  |

## 16. OTHER INFORMATION

|      |                      |   |  |
|------|----------------------|---|--|
| 16.1 | Other Information:   | <b>WARNING! CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION.</b> Avoid breathing mist/spray. Wear protective gloves/ eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. 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 advice/attention. Store in a well-ventilated place. Keep cool. Use only as directed.<br><b>KEEP OUT OF REACH OF CHILDREN.</b>   |  |
| 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 & Granite Gold'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:        | <b>Granite Gold, Inc.</b><br>9170 Chesapeake Drive<br>San Diego, CA 92123 USA<br>Tel: +1 (858) 499-8933<br><a href="http://www.granitegold.com/">http://www.granitegold.com/</a>  |  |
| 16.5 | Prepared by:         | <b>ShipMate, Inc.</b><br>P.O. Box 787<br>Sisters, Oregon 97759-0787 USA<br>Tel: +1 (310) 370-3600<br>Fax: +1 (310) 370-5700<br><a href="http://www.shipmate.com">http://www.shipmate.com</a>  |  |



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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  |

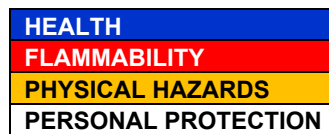
### FIRST AID MEASURES:

|     |  |
|-----|--|
| 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  |



### 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:

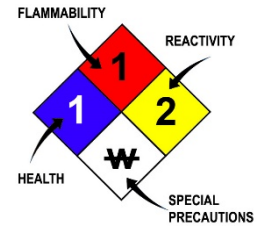
|         |  |
|---------|--|
| Carc    | Carcinogenic                                     |
| Irrit   | Irritant   |
| NA      | Not Available                                    |
| NR      | No Results                                       |
| ND      | Not Determined                                   |
| 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

|                                    |   |
|------------------------------------|---|
| <b>FLAMMABILITY LIMITS IN AIR:</b> |   |
| <b>Autoignition Temperature</b>    | Minimum temperature required to initiate combustion in air with no other source of ignition   |
| <b>LEL</b>                         | Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source  |
| <b>UEL</b>                         | 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 <sub>50</sub>   | Lethal Dose (solids & liquids) which kills 50% of the exposed animals |
| LC <sub>50</sub>   | Lethal concentration (gases) which kills 50% of the exposed animal    |
| ppm  | Concentration expressed in parts of material per million parts        |
| TD <sub>10</sub>   | Lowest dose to cause a symptom  |
| TCLo   | Lowest concentration to cause a symptom                               |
| TD <sub>10</sub> , LD <sub>10</sub> , & LD <sub>50</sub> or TC, TC <sub>10</sub> , LC <sub>10</sub> , & LC <sub>50</sub> | 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 <sub>m</sub>  | Median threshold limit  |
| log K <sub>ow</sub> or log K <sub>oc</sub>   | 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 |