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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 4/30/2015

|     | 1. PRODUCT & COMPANY IDENTIFICATION |  |  |  |  |
|-----|-------------------------------------|--|--|--|--|
| 1.1 | Product Name:                       | BATTERY FOR DIGITAL MINI MOISTURE METER                      |  |  |  |
| 1.2 | Chemical Name:                      | Alkaline Battery   |  |  |  |
| 1.3 | Synonyms:                           | P/N 67143  |  |  |  |
| 1.4 | Trade Names:                        | Pittsburgh   |  |  |  |
| 1.5 | Product Uses & Restrictions:        | Electric Storage Battery                                     |  |  |  |
| 1.6 | Distributor's Name:                 | Harbor Freight Tools USA, Inc.                               |  |  |  |
| 1.7 | Distributor's Address:              | 26541 Agoura Road, Calabasas, CA 91302 USA                   |  |  |  |
| 1.8 | Emergency Phone:                    | CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687) |  |  |  |
| 1.9 | Business Phone / Fax:               | +1 (805) 388-1000  |  |  |  |

#### 2. HAZARDS IDENTIFICATION

.1 Hazard Identification: This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia).

WARNING! HARMFUL IF SWALLOWED. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

<u>Hazard Statements</u> (H): H302 – Harmful if swallowed. H411 – Toxic to aquatic life with long lasting effects.

<u>Precautionary Statements</u> (P): P264 – Wash hands and exposed skin areas with soap and warm water thoroughly after handling. P270 – Do not eat, drink or smoke while sing this product. P273 – Avoid release to the environment. P280 – Wear protective gloves/eye protection. P301+P312 – IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 – Rinse mouth. P391 – Collect spillage. P501 – Dispose of contents/container to licenses treatment, storage and disposal facility (TSDF).

<u>IF INGESTED</u>: Call the NATIONAL BATTERY INGESTION HOTLINE at +1 (202) 625-3333 collect, day or night. In Canada, call +1 (416) 813-5900.



#### 3. COMPOSITION & INGREDIENT INFORMATION

|                       |               |   |                  | EX         |         |         |          | EXPO     | SURE L  | IMITS IN | N AIR (m |        |                  |
|-----------------------|---------------|---|------------------|------------|---------|---------|----------|----------|---------|----------|----------|--------|------------------|
|                       |               |   |                  |            | AC      | GIH     |          | NOHSC    |         |          | OSHA     |        |                  |
|                       |               |   |                  |            | pp      | om      |          | ppm      |         |          | ppm      |        |                  |
|                       |               |   |                  |            |         |         | ES-      | ES-      | ES-     |          |          |        |                  |
| CHEMICAL NAME(S)      | CAS No.       | RTECS No.   | EINECS No.       | %          | TLV     | STEL    | TWA      | STEL     | PEAK    | PEL      | STEL     | IDLH   | OTHER            |
| MANGANESE DIOXIDE     | 1313-13-9     | OP0350000   | 215-202-6        | 15-40      | (5)     | NA      | (5)      | NF       | NF      | (5)      | NA       | NA     |                  |
| MANGANESE DIOXIDE     | Acute Tox. Or | al 4; Acute Tox. In   | nh. 4; H302, H33 | 2          |         |         |          |          |         |          |          |        |                  |
| ZINC                  | 7440-66-6     | ZG8600000   | 231-175-3        | 7-13       | NA      | NA      | NF       | NF       | NF      | NA       | NA       | NA     |                  |
| ZINC                  | Aquatic Acute | Aquatic Acute 1; Aquatic Chronic 1; H400, H410  |                  |            |         |         |          |          |         |          |          |        |                  |
| DOTA COLUM LIVEROVIDE | 1310-58-3     | TT2100000   | 215-181-3        | 3-7        | NA      | NA      | (2)      | NF       | NF      | NA       | NA       | NA     |                  |
| POTASSIUM HYDROXIDE   | Acute Tox. Or | Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332  |                  |            |         |         |          |          |         |          |          |        |                  |
| CDADUUTE              | 7782-42-5     | MD9659600   | 231-955-3        | 1-5        | (2.0)   | NA      | (2.0)    | NF       | NF      | (5)*     | NA       | NA     | RESP FRAC        |
| GRAPHITE              |               |   |                  |            |         |         |          |          |         |          |          |        |                  |
| MEDOLIDY              | 7439-97-6     | OV4550000   | 231-106-7        | 0.1-1      | NA      | NA      | (0.003)  | (0.025)  | NA      | NA       | NA       | (10)   |                  |
| MERCURY               | Repr. 1B; Acu | Repr. 1B; Acute Tox. 2 *; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H360D***, H330, H372**, H400, H410 |                  |            |         |         |          |          |         |          |          |        |                  |
| LEAD                  | 7439-92-1     | OF7525000   | 231-100-4        | < 0.004    | (0.05)  | NA      | NF       | (0.15)   | NF      | NA       | 100      | NA     |                  |
| LEAD                  | Acute Tox. 4; | Acute Tox. 4; Rep   | or. 1A; STOT RE  | 2; Aquatio | Acute   | 1; Aqua | tic Chro | nic 1; F | 1302, H | 332, H   | 360, H3  | 73, H4 | 00, H410         |
| CA DANILIA            | 7440-43-9     | NA  | 231-152-8        | < 0.001    | (0.01)  | NA      | NF       | NF       | NF      | (0.1)    | 0.3      | (9)    | (0.02) RESP FRAC |
| CADMIUM               | Acute Tox. 2; | Muta. 2; Carc. 1B   | ; Repr. 2; STOT  | SE 1; Aq   | Acute 1 | ; Aq. C | hronic 1 | ; H330,  | H341,   | H350,    | H361fd   | H372.  | H400, H410       |

#### A FIRST AID MEASURES

|     |            |             | 4. TINGT AID MEASURES  |
|-----|------------|-------------|--|
| 4.1 | First Aid: | Ingestion:  | Give large quantities of water, but do NOT induce vomiting. Never give anything by mouth to an unconscious person. Contact 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. |
|     |            | Eyes:       | If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately.   |
|     |            | Skin:       | If an open battery cell: Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned.   |
|     |            | Inhalation: | Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial respiration. Seek immediate medical attention.  |



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 4/30/2015 4. FIRST AID MEASURES - cont'd May cause severe irritation of mouth, throat, esophagus, and stomach. 42 Effects of Exposure: Acute ingestion of zinc Ingestion: compounds may cause abdominal pain, nausea, vomiting, diarrhea, and severe cramping. Eyes: Severe irritation, burns, cornea damage, blindness. Lead compounds may cause irritation. Skin: Severe irritation, burns, and ulceration if open battery cell comes into contact with skin. Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs. Inhalation: 4.3 Symptoms of Overexposure: Severe discomfort, nausea, vomiting and headache. Harmful if swallowed. May cause corrosion and Ingestion: permanent tissue destruction of the esophagus and digestive tract. May cause irreversible eye injury. Contact with eyes may cause severe irritation, and possible eye burns. Eyes: Severe irritation, redness, and watering. Severe skin irritation, red, itching skin, burns and ulceration, if open battery cell comes into contact with Skin: Inhalation: May cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). Irritation may lead to chemical pneumonitis and pulmonary edema. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain. muscle pain and increased white blood cell count. Causes respiratory tract irritation with possible burns. 4 4 Acute Health Effects: Hazardous exposure can occur only when product is heated above the melting point, oxidized or otherwise processed or damaged to create dust, vapor, or fume. Chronic Health Effects: 4.5 Chronic exposure may cause effects similar to those of acute exposure. 4.6 Target Organs: Skin, Respiratory System, Central Nervous System (CNS) 4.7 **Medical Conditions** HEALTH 1 NA Aggravated by Exposure: **FLAMMABILITY** 0 0 PHYSICAL HAZARDS PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: This material can burn but will not readily ignite. However, if involved in a fire, this product may 5.1 decompose at high temperatures to form toxic gases (e.g., CO, CO<sub>X</sub>, Hydrocarbons). Extinguishing Methods: 5.2 CO<sub>2</sub>, Dry Chemical, Alcohol Foam, Dry Chemical. Use water spray to cool containers. 5.3 Use extinguishing media most appropriate for the surrounding fire. Do NOT get water inside Firefighting Procedures: containers. For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASURES 6.1 Spills Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment, including protective gloves and eyewear. Plastic or rubber gloves, respirator, eye/face protection and chemical-resistant apron may be required for clean-up of large spills. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible material such as vermiculite or sand to soak up the product and place into a container for later disposal. Large Spills: Keep incompatible materials away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Collect in acidresistant container. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Do not eat, drink or smoke when handling this product. Handle as to avoid puncturing container(s). Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct 7.2 Storage & Handling sunlight. Keep away from incompatible substances. Protect containers from physical damage. Store product in wellfilled, appropriate coated and tightly closed containers avoiding influence of oxygen/air, light and humidity. Store at a cool and constant temperature. This battery is not designed for recharging. Recharging can cause battery leakage or high pressure rupture, in some 7.3 Special Precautions: cases. Inadvertent charging can happen if a battery is installed backwards. Accidental short circuit for a few seconds will not seriously affect the battery. But prolonged short circuit will cause the battery to lose energy, and can cause the safety release vent to open. Sources of short circuit include jumbled batteries in bulk containers, metal jewelry, metal

covered tables or metal belts used for assembly of batteries in devices.



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|     |                                      | 8. EXPOSURE CON   | TROL   | S & I    | PERSO       | NAL F       | PROTE      | CTIO       | N         |          |                   |
|-----|--------------------------------------|---|--|----------|-------------|-------------|------------|------------|-----------|----------|-------------------|
| 8.1 | Exposure Limits:                     | T TO THE TOTAL TOTAL  | ACG  |          |             | NOHSC       |            | 0110       | OSHA      |          | OTHER             |
|     | ppm (mg/m³)                          | CHEMICAL NAME(S)  | TLV  | STEL     | ES-TWA      | ES-STEL     | ES-PEAK    | PEL        | STEL      | IDLH     |                   |
|     |                                      | MANGANESE DIOXIDE   | (5)  | NA       | (5)         | NF          | NF         | (5)        | NA        | NA       |                   |
|     |                                      | GRAPHITE  | (2.0)  | NA       | (2.0)       | NF          | NF         | (5)*       | NA        | NA       | RESP FRAC         |
|     |                                      | POTASSIUM HYDROXIDE   | NA   | NA       | (2)         | NF          | NF         | NA         | NA        | NA       |                   |
|     |                                      | MERCURY   | NA   | NA       | (0.003)     | (0.025)     | NA         | NA         | NA        | (10)     |                   |
|     |                                      | LEAD  | (0.05)   | NA       | NF          | (0.15)      | NF         | NA         | 100       | NA       |                   |
| _   |                                      | CADMIUM   | (0.01)   | NA       | NF          | NF          | NF         | (0.1)      | 0.3       | (9)      | (0.02) RESP FR    |
| .2  | Ventilation & Engineering Controls:  | General mechanical (e.g., fans<br>exhaust ventilation to effectivel<br>product. Ensure appropriate de | y remov  | e and p  | prevent bu  | uildup of v | apors or   | mist gen   | erated    | from th  | e handling of the |
| 3.3 | Respiratory Protection:              | instances where mist or vapors use only protection authorized   | lo special respiratory protection is required under typical circumstances of use or handling. In instances where mist or vapors of this product are generated, and respiratory protection is needed, se only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member |          |             |             |            |            |           |          |                   |
| 3.4 | Eye Protection:                      | Wear protective eyewear (e.g. product. Always use protectiv protection tested and approved 166(EU).   | e eyewe  | ar wher  | n cleaning  | spills or   | leaks. Us  | se equip   | ment fo   | r eye    | <b>(3)</b>        |
| 3.5 | Hand Protection:                     | Where contact is likely, impervious When handling large quantities                                    |  |          |             |             |            |            |           |          |                   |
| 3.6 | Body Protection:                     | No apron required when handl resistant apron, clothing and bo be available.                           | ing seale  | ed unda  | maged ba    | attery. Wh  | nere conta | ct is like | ly, corre | osion-   |                   |
| 9.1 | Appearance:                          | 9. PHYSICAL Cylindrical battery. Manganese  |  |          |             |             |            |            |           |          |                   |
| .2  | Odor:                                | Odorless.   |  |          |             |             |            |            |           |          |                   |
| .3  | Odor Threshold:                      | NA  |  |          |             |             |            |            |           |          |                   |
| 4   | pH:                                  | NA  |  |          |             |             |            |            |           |          |                   |
| .5  | Melting Point/Freezing Point:        | 420 °C (788 °F) - zinc  |  |          |             |             |            |            |           |          |                   |
| .6  | Initial Boiling Point/Boiling Range: | 140 °C (284 °F)   |  |          |             |             |            |            |           |          |                   |
| .7  | Flashpoint:                          | NA  |  |          |             |             |            |            |           |          |                   |
| .8  | Upper/Lower Flammability<br>Limits:  | NA  |  |          |             |             |            |            |           |          |                   |
| .9  | Vapor Pressure:                      | NA  |  |          |             |             |            |            |           |          |                   |
| 10  | Vapor Density:                       | NA  |  |          |             |             |            |            |           |          |                   |
| .11 | Relative Density:                    | NA  |  |          |             |             |            |            |           |          |                   |
| .12 | Solubility:                          | KOH (complete)  |  |          |             |             |            |            |           |          |                   |
| .13 | Partition Coefficient (log Pow):     | NA NA   |  |          |             |             |            |            |           |          |                   |
| .14 | Autoignition Temperature:            | NA  |  |          |             |             |            |            |           |          |                   |
| .15 | Decomposition Temperature:           | NA  |  |          |             |             |            |            |           |          |                   |
| .16 | Viscosity:                           | NA  |  |          |             |             |            |            |           |          |                   |
| .17 | Other Information:                   | NA  |  |          |             |             |            |            |           |          |                   |
|     |                                      | 100   |  |          |             |             |            |            |           |          |                   |
|     |                                      | 10. ST  | ΔRII I   | TV &     | REAC        | TIVITV      | 7          |            |           |          |                   |
| 0.1 | Stability:                           |   |  |          |             |             |            |            |           |          |                   |
| 0.1 |                                      | Stable under normal conditions;   | unstable   | with he  | eat or cont | amination.  |            |            |           |          |                   |
| 0.2 | Hazardous Decomposition<br>Products: | Oxides of carbon (CO, CO <sub>2</sub> ).  |  |          |             |             |            |            |           |          |                   |
| 0.3 | Hazardous Polymerization:            | Will not occur.   |  |          |             |             |            |            |           |          |                   |
| 0.4 | Conditions to Avoid:                 | Open flames, sparks, high heat,   | incompa  | tible su | bstances a  | and direct  | sunlight.  |            |           |          |                   |
| 0.5 | Incompatible Substances:             | Avoid extreme heat and ignition circuit or recharge.  |  |          |             |             |            | exceed     | heat, c   | rush, di | isassemble, sho   |



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HFT-67143 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 4/30/2015 11. TOXICOLOGICAL INFORMATION Inhalation: NO Ingestion: YES Routes of Entry Absorption: YES 11.2 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product and is presented below: Manganese Dioxide: LD<sub>50</sub> (oral, rat): 3,478 mg/kg 11.3 Acute Toxicity: See section 4.4 11.4 Chronic Toxicity: See section 4.5 11.5 Suspected Carcinogen: Cadmium is listed as ACGIH Group A2 (Suspected human carcinogen); IARC Group 1 (Carcinogenic to humans); NTP13 Group 1 (Known human carcinogen); CA65 (cancer). Lead is listed as ACGIH Group A3 (Confirmed animal carcinogen with unknown relevance to human); IARC Group 2B (Possibly carcinogenic to humans); NTP13 Group 2 (Reasonably Anticipated to be a Human Carcinogen); CA65 (cancer). Reproductive Toxicity: 11.6 This product contains <u>Lead</u>, which is suspected of causing 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 cause teratogenic effects in humans. Reproductive Toxicity This product contains Lead, which is suspected of causing reproductive toxicity in humans. 11.7 Irritancy of Product The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 11.8 Biological Exposure Indices NA 11.9 Physician Recommendations: Treat symptomatically and supportively. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: There are no specific data available for this product. Effects on Plants & Animals: 12.2 There are no specific data available for this product. Mercury:  $LC_{50}$  (Rainbow trout, 96h) = 0.16-0.90 mg/L;  $LC_{50}$  (Bluegill/Sunfish, 96h) = 0.16-0.90 mg/L;  $EC_{50}$  (Daphnia 12.3 Effects on Aquatic Life: Magna, 48h) = 0.01 mg/L. Unspecified In aquatic systems, mercury appears to bind to dissolved matter or fine particulates, while the transport of mercury bound to dust particles in the atmosphere or bed sediment particles in rivers and lakes is generally less substantial. The conversion, in aquatic environments, of inorganic mercury compound to methyl mercury implies that recycling of mercury from sediment to water to air and back could be a rapid process. 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations. 13.2 Special Considerations: 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. 49 CFR (GND): 14.1 **NOT REGULATED** 14.2 IATA (AIR): NOT REGULATED 14.3 IMDG (OCN): NOT REGULATED TDGR (Canadian GND): NOT REGULATED 14.4 14.5 ADR/RID (EU): **NOT REGULATED** NOT REGULATED 14.6 SCT (MEXICO) ADGR (AUS): NOT REGULATED 14 7 15. REGULATORY INFORMATION SARA Reporting 15.1 This product contains Lead, Mercury and Zinc, substances subject to SARA Title III, section 313 reporting requirements. Requirements SARA Threshold Planning 15.2 There are no specific Threshold Planning Quantities for the components of this product. Quantity: 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory or are otherwise exempt. 15.4 CERCLA Reportable Quantity Zinc: 454 kg (1,000 lbs); Mercury: 0.454 kg (1.0 lbs) (RQ): 15.5 Other Federal Requirements: Mercury, Lead and Cadmium are listed as Hazardous Air Pollutants (HAPs) under the Clean Air Act (CAA). Cadmium and Mercury are listed as Priority Pollutants under the Clean Water Act (CWA). Zinc, Lead, Cadmium and Mercury are listed as Toxic Pollutants under the CWA. This product does not contain any Class 1 or Class 2 ozone depletors 15.6 Other Canadian Regulations This product has been classified according to the hazard criteria of the CPR and the Safety Data

Sheet 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)



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|      |                               | 45 DECULATORY INFO   | DMATION and d   |
|------|-------------------------------|--|---|
|      | Tarra da da                   | 15. REGULATORY INFO  |   |
| 15.7 | State Regulatory Information: | (FL), Massachusetts Hazardous Substances Lis Substances List (MN), New Jersey Right-to-Kno Right-to-Know List (PA), and Washington Permiss Potassium Hydroxide is found on the following state Graphite is found on the following state criteria list Manganese Dioxide is found on the following state Zinc is found on the following state criteria lists: IL No other ingredients in this product, present in a criteria lists: California Proposition 65 (CA65), De (FL), Illinois Hazardous Substances List (IL), Substances List (MI), Minnesota Hazardous Su Hazardous Substances List (NY), Pennsylvania I Washington Permissible Exposures List (WA), Wi  | ate criteria lists: FL, MA, MN, PA, and WA. ts: FL, MA, MN, PA, and WA. e criteria lists: IL, MA, PA, and RI, MA, NJ, and PA. concentration of 1.0% or greater, are listed on any of the following state laware Air Quality Management List (DE), Florida Toxic Substances List Massachusetts Hazardous Substances List (MA), Michigan Critical ubstances List (MN), New Jersey Right-to-Know List (NJ), New York Right-to-Know List (PA), Rhode Island Hazardous Substances List (RI), |
|      |                               |  | arning be given to customers in the State of California.  |
| 15.8 | Other Requirements:           | Causes burns. Very toxic to aquatic organisms renvironment. Safety Phrases (S): 1/2-26-36/37/3 children. In case of contact with eyes, rinse in advice. Wear suitable protective clothing/ gloves you feel unwell seek medical advice immediately  | Annex I of EU Directive 67/548/EEC: <a href="Phrases">Phrases</a> (R): 22-34-50/53 — Harmful if swallowed. may cause long-term adverse effects in the aquatic 39-45-60-61 — Keep locked up and out of reach of mediately with plenty of water and seek medicals and eye/face protection. In case of accident or if (show label where possible). This material and its aste. Avoid release to the environment. Refer to  |
|      |                               |  |   |
|      |                               | 16. OTHER INFO   | DRMATION  |
| 16.1 | Other Information:            | Wash hands and exposed skin areas with soap while sing this product. Avoid release to th SWALLOWED: Call a POISON CENTER/doctor i IF INGESTED: Call the NATIONAL BATTERY Canada, call +1 (416) 813-5900. KEEP OUT OF   | INGESTION HOTLINE at +1 (202) 625-3333 collect, day or night. In  |
| 16.2 | Terms & Definitions:          | See last page of this Safety Data Sheet.   |   |
| 16.3 | Disclaimer:                   | This Safety Data Sheet is offered pursuant to C government regulations must be reviewed for an Tools USA, Inc.'s knowledge, the information accuracy, suitability or completeness is not guar provided. The information contained herein relationships to the contained herein relationships to the contained herein relationships the cont | SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other oplicability to this product. To the best of ShipMate's & Harbor Freight contained herein is reliable and accurate as of this date; however, anteed and no warranties of any type, either expressed or implied, are ites only to the specific product(s). If this product(s) is combined with the considered. Data may be changed from time to time. Be sure to   |
| 16.4 | Prepared for:                 | Harbor Freight Tools USA, Inc.<br>26541 Agoura Road<br>Calabasas, CA 91302 USA<br>Tel: +1 (805) 388-1000<br>http://www.harborfreight.com   | HARBOR FREIGHT TOOLS Quality Tools at Ridiculously Low Prices   |
| 16.5 | Prepared by:                  | 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   |   |

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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                          |  |  |  |  |  |
|----------|---|--|--|--|--|--|
| EXPOSURE | EXPOSURE LIMITS IN AIR:                                   |  |  |  |  |  |
| ACGIH    | American Conference on Governmental Industrial Hygienists |  |  |  |  |  |
| С        | Ceiling Limit   |  |  |  |  |  |
| ES       | Exposure Standard (Australia)                             |  |  |  |  |  |
| IDLH     | Immediately Dangerous to Life and Health                  |  |  |  |  |  |
| 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:

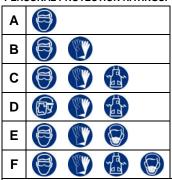
Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.

#### HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



#### PERSONAL PROTECTION RATINGS:







Splash Goggles







Synthetic Apron

**Protective Clothing** & Full Suit



**Full Face Respirator** 

**Dust & Vapor Half-**Mask Respirator

**Full Face** 

Airline Hood/Mask or SCBA

#### OTHER STANDARD ABBREVIATIONS:

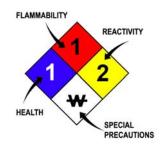
| ML    | Maximum Limit                      |
|-------|------------------------------------|
| mg/m3 | milligrams per cubic meter         |
| NA    | Not Available                      |
| ND    | Not Determined                     |
| NE    | Not Established                    |
| NF    | Not Found                          |
| NR    | No Results                         |
| ppm   | parts per million                  |
| SCBA  | Self-Contained Breathing Apparatus |

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

| FLAMMABILITY LIMITS IN AIR: |   |  |  |  |  |  |  |
|-----------------------------|---|--|--|--|--|--|--|
| Autoignition<br>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       |  |  |
| ₩       | Use No Water    |  |  |
| ох      | Oxidizer        |  |  |
| TREFOIL | Radioactive     |  |  |



#### TOXICOLOGICAL INFORMATION:

| Lethal Dose (solids & liquids) which kills 50% of the exposed animals s |
|---|
| Lethal concentration (gases) which kills 50% of the exposed animal      |
| Concentration expressed in parts of material per million parts          |
| Lowest dose to cause a symptom  |
| Lowest concentration to cause a symptom                                 |
| Lowest dose (or concentration) to cause lethal or toxic effects         |
| International Agency for Research on Cancer                             |
| National Toxicology Program   |
| Registry of Toxic Effects of Chemical Substances                        |
| Bioconcentration Factor   |
| Median threshold limit  |
| 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  |
| NOHSC    | National Occupational Health and Safety Commission (Australia)                  |
| 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)                            |
| HMIS-III | National Paint & Coatings Association Hazardous Materials Identification System |

#### WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

| 0          | <b>®</b>  | <b>(</b>  |          | $\odot$    | <b>®</b>   |           | R        |
|------------|-----------|-----------|----------|------------|------------|-----------|----------|
| Class A    | Class B   | Class C   | Class D1 | Class D2   | Class D3   | Class E   | Class F  |
| Compressed | Flammable | Oxidizing | Toxic    | Irritation | Infectious | Corrosive | Reactive |

#### EC (67/548/EEC) INFORMATION:

| T.        |           | M         | *       |           |       | ×        | ×       |
|-----------|-----------|-----------|---------|-----------|-------|----------|---------|
| С         | E         | F         | N       | 0         | Т     | Xi       | Xn      |
| Corrosive | Explosive | Flammable | Harmful | Oxidizing | Toxic | Irritant | Harmful |

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

|           |           |          | $\Diamond$  |           |       | <b>\</b>              |                  |                  |
|-----------|-----------|----------|-------------|-----------|-------|-----------------------|------------------|------------------|
| GHS01     | GHS02     | GHS03    | GHS04       | GHS05     | GHS06 | GHS07                 | GHS08            | GHS09            |
| Explosive | Flammable | Oxidizer | Pressurized | Corrosive | Toxic | Harmful<br>Irritating | Health<br>Hazard | Environ-<br>ment |