HARBOR FREIGHT TOOLS

SAFETY DATA SHEET

SDS Revision: 1.0

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

Page 1 of 6 **HFT-61676**

SDS Revision Date: 4/30/2015

| .1 | Product Name: | DHEAV | Y DUTY B | BATTERY | | | | | | | | | | |
|--|--|--|--|---|--|--|---|--|---|---|---|--|---|--|
| 2 | Chemical Name: | Zinc Chloride | | | | | | | | | | | | |
| 3 | Synonyms: | P/N 61676 | Battory | | | | | | | | | | | |
| 4 | Trade Names: | Thunderbolt N | /agnum | | | | | | | | | | | |
| 5 | Product Uses & Restrictions: | Electric Stora | U | | | | | | | | | | | |
| 6 | Distributor's Name: | | nt Tools USA, I | nc | | | | | | | | | | |
| 7 | Distributor's Address: | 0 | 26541 Agoura Road, Calabasas, CA 91302 USA | | | | | | | | | | | |
| 8 | Emergency Phone: | Ŭ | CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687) | | | | | | | | | | | |
| .9 | Business Phone / Fax: | +1 (805) 388-1000 | | | | | | | | | | | | |
| - | | 1 (003) 300- | 1000 | | | | | | | | | | | |
| | | | 2. H/ | AZARDS | IDENT | IFIC | ΑΤΙΟ | DN | | | | | | |
| 1 | Hazard Identification: | This product | is classified a | | | | | | us ao | ods ac | ccordin | a to | the | |
| | | | criteria of [NOH | | | | | | | | | J | | • |
| | | WARNING! | HARMFUL IF | SWALLOWE | D. TOXI | с то а | QUA | TIC LII | FE WI | TH LC | DNG L | ASTI | NG | |
| | | EFFECTS. | | | | | | | | | | | | |
| | | - | <u>ments</u> (H): H30 | 02 – Harmful if | swallowe | d. H41 | 1 – Tc | oxic to | aquati | c life w | ith lon | ig last | ing | · · · / |
| | | effects. | Ctotomente // | | loop hard | o ord - | V00 | ما ما باب | orc | | | n.d | | |
| | | | <u>Statements</u> (I) | | | | | | | | | | | X |
| | | Avoid release | to the environ | Ing. P270 – D ment P280 – | o not eat, Wear pro | arink o | | | e sing | this pr | 00UCI. | PZ7- | 3 — IE | |
| | | | D: Call a POIS | | | | | | | | | | | ¥ \ |
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| | | | | spose of come | 1113/0011101 | | 1001130 | 3 iicai | ment, | storag | e and | aispo | sai | |
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| | | facility (TSDF |). <u>D</u> : Call the N | IATIONAL BA | ATTERY I | INGEST | | | | • | | | | \checkmark |
| | | facility (TSDF |). | IATIONAL BA | ATTERY I | INGEST | | | | • | | | | |
| | | facility (TSDF IF INGESTE collect, day of |). <u>D</u> : Call the N or night. In Ca | IATIONAL BA anada, call +1 | ATTERY I (416) 813 | INGEST 3-5900. | | HOTLI | NE at | : +1 (2 | | | | |
| | | facility (TSDF IF INGESTE collect, day of |). <u>D</u> : Call the N | IATIONAL BA anada, call +1 | ATTERY I (416) 813 | INGEST 3-5900. | | HOTLI | NE at | : +1 (2 ION | 202) 6 | 25-33 | 33 | |
| | | facility (TSDF IF INGESTE collect, day of |). <u>D</u> : Call the N or night. In Ca | IATIONAL BA anada, call +1 | ATTERY I (416) 813 | INGEST 3-5900. IENT | INF | | NE at | : +1 (2 ION | 202) 6 | 525-33 | 333 | |
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| | CAL NAME(S) | facility (TSDF IF INGESTEI collect, day of 3. CC CAS No. 7440-66-6 |). <u>D</u> : Call the N Dr night. In Ca DMPOSIT RTECS No. ZG8600000 | IATIONAL BA anada, call +1 ION & IN(EINECS No. 231-175-3 | ATTERY I (416) 813 GREDI % 15-40 | INGEST 3-5900. IENT ACC PP | INF | | NE at | ES- | 202) 6 IMITS IN | 25-33 | 1333 | OTHER |
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| NC | CAL NAME(S) | facility (TSDF IF INGESTEI collect, day of 3. CO CAS No. 7440-66-6 Aquatic Acute 1313-13-9 |). <u>D</u> : Call the N Dr night. In Ca DMPOSIT RTECS No. ZG8600000 1; Aquatic Chron OP0350000 | IATIONAL BA anada, call +1 ION & IN(EINECS No. 231-175-3 nic 1; H400, H41 215-202-6 | GRED (416) 813 GRED (15-40 0 15-40 | INGEST 3-5900. IENT ACC PP | INF INF IIH m STEL | | NE at | ES- PEAK | 202) 6 | 25-33 | 333 | OTHER |
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| NC ANG ATE RAP | ANESE DIOXIDE | facility (TSDF IF INGESTEI collect, day of 3. CO CAS No. 7440-66-6 Aquatic Acute 1313-13-9 Acute Tox. Or 7732-18-5 7782-42-5 7646-85-7 |). D: Call the N or night. In Ca DMPOSIT DMPOSIT CALL CALL ZG8600000 1; Aquatic Chron OP0350000 al 4; Acute Tox. ZC0110000 | ATIONAL BA anada, call +1 ION & IN(EINECS No. 231-175-3 nic 1; H400, H41 215-202-6 Inh. 4; H302, H3 231-791-2 231-955-3 231-592-0 | GRED % 15-40 0 15-40 32 10-20 5-10 | INGEST 3-5900. IENT ILV NA (5) NA (2.0) | INF BIH m STEL NA NA NA NA | ORN ES- TWA NF (5) NF (2.0) (1) | NE at AAT EXPO NOHSC ppm ES- STEL NF NF NF NF | ES- PEAK NF NF NF | 202) 6 IMITS IN PEL NA (5) NA | AIR (n OSHA ppm STEL NA NA NA | 333 idl.H NA NA NA | RESP FRAC |
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| NC ANG ATE RAP NC (ARB ON ETR(| ANESE DIOXIDE R HITE CHLORIDE ON BLACK DLEUM ASPHALT | facility (TSDF IF INGESTEI collect, day of 3. CO CAS No. 7440-66-6 Aquatic Acute 1313-13-9 Acute Tox. Or 7732-18-5 7782-42-5 7646-85-7 Acute Tox. 4 * 1333-86-4 8052-42-4 12125-02-9 Acute Tox. 4, |). D: Call the Nor night. In Call the Cal | ATIONAL BA anada, call +1 ION & IN 231-175-3 nic 1; H400, H41 215-202-6 Inh. 4; H302, H3 231-791-2 231-955-3 231-592-0 Aquatic Acute 1; 215-609-9 231-096-4 232-490-9 235-186-4 2, H319 | ATTERY I (416) 813 GREDI 813 GREDI 15-40 0 15-40 32 10-20 5-10 5-10 5-10 4quatic Ch 3-7 1-5 1-5 | INGEST 3-5900. IENT ILV NA (5) (5) (1) (5) (5) (5) (5) (5) (5) (10) | INF SIH m STEL NA NA NA NA NA NA NA NA NA NA | HOTLI CORN ES- TWA NF (5) NF (2.0) (1) H314, H (3.5) NF NF (10) | NE at AAT EXPO NOHSC Ppm ES- STEL NF NF NF NF NF NF NF NF NF (20) | ES- PEAK NF NF NF NF NF NF NF NF NF NF | 202) 6 | STEL NA NA NA NA NA NA NA | 333 ing/m³) indLH NA NA NA 50 NA 50 NA 10 NA 10 <l< td=""><td>RESP FRAC</td></l<> | RESP FRAC |
| NC ANG ATE RAP NC (ARB ON | ANESE DIOXIDE R HITE CHLORIDE ON BLACK DLEUM ASPHALT | facility (TSDF IF INGESTEI collect, day of 3. CO CAS No. 7440-66-6 Aquatic Acute 1313-13-9 Acute Tox. Or 7732-18-5 7782-42-5 7646-85-7 Acute Tox. 4 * 1333-86-4 7439-89-6 8052-42-4 12125-02-9 Acute Tox. 4, 7439-92-1 |). D: Call the Nor night. In Call the Nor night here is th | ATIONAL BA anada, call +1 ION & IN 231-175-3 nic 1; H400, H41 215-202-6 Inh. 4; H302, H3 231-791-2 231-955-3 231-592-0 Aquatic Acute 1; 215-609-9 231-096-4 232-490-9 235-186-4 2, H319 231-100-4 | ATTERY I (416) 813 GREDI % 15-40 0 15-40 32 10-20 5-10 5-10 40-20 5-10 1-5 1-5 0.5-1.5 0-0.1 | INGEST 3-5900. IENT TLV NA (5) (5) (1) (5) (5) (5) (5) (5) (5) (5) (10) (0.05) | INF SIH m STEL NA NA NA NA NA NA NA NA NA NA | HOTLI ES- TWA NF (5) NF (2.0) (1) H314, H (3.5) NF NF (10) NF | NE at AAT EXPO NOHSC ppm ES- STEL NF NF NF NF NF NF NF (20) (0.15) | ES- PEAK NF NF NF NF NF NF NF NF NF NF | 202) 6 | 225-33 JAIR (n OSHA Ppm STEL NA NA NA NA NA NA NA NA | 333 ing/m³) indLH NA NA NA S0 NA S0 NA NA NA NA NA NA | RESP FRAC FUME 0.5 - NIOSH FUME |

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| | BOR FREIGHT TOOLS | | SAFETY | DATA | SHE | ET | | Page 2 of 6 HFT-61676 | |
|-------|-----------------------------|--|---|---|---|-------------------------------|--|---------------------------------|--|
| Prepa | ared to OSHA, ACC, ANSI, No | OHSC, WHMIS, | , 2001/58 & 1272/2008/EC Standar | ds | SDS Revisior | n: 1.0 | SDS Revision D | ate: 4/30/2015 | |
| | | | | | | | | | |
| | | | 4. FIRST AI | | | | | | |
| 4.1 | First Aid: | Ingestion: | Give large quantities of wa unconscious person. Contac assistance and instructions. victim's head lowered (forwa | t the nearest Pois Seek immediate | son Control (e medical att | Center or loo ention. If v | cal emergency te | elephone number for | |
| | | <u>Eyes</u> : | 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. | | | | | | |
| | | <u>Skin</u> : | n: If an open battery cell: Remove contaminated clothing and wash affected areas with soap and water. I discomfort persists and/or the skin reaction worsens, contact a physician immediately. Do not wea contaminated clothing until after it has been properly cleaned. | | | | | | |
| | | Inhalation: | | | | | | | |
| 4.2 | Effects of Exposure: | Ingestion: | | | | | | | |
| | | Eyes: | Severe irritation, burns, corn | | | | | | |
| | | <u>Skin</u> : Inhalation: | Severe irritation, burns, and Inhalation of lead dust or fun | | • | | | | |
| 4.3 | Symptoms of Overexposure: | Ingestion: | Severe discomfort, nausea, | , vomiting and h | eadache. Ha | armful if sv | | | |
| | | Eyes: | permanent tissue destruction May cause irreversible eye i | injury. Contact wi | • | | ere irritation, and | possible eye burns. | |
| | | <u>Skin</u> : | Severe irritation, redness, and watering. <u>kin</u>: Severe skin irritation, red, itching skin, burns and ulceration, if open battery cell comes into contact wit skin. | | | | | | |
| | | <u>Inhalation</u> : May cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). Irritation ma lead to chemical pneumonitis and pulmonary edema. Inhalation of fumes may cause metal fume feve | | | | | | | |
| | | | which is characterized by flu muscle pain and increased w | | | | | | |
| 4.4 | Acute Health Effects: | | exposure can occur only when | | | | | | |
| 4.5 | Chronic Health Effects: | | create dust, vapor, or fume. | | | | | | |
| 4.6 | Target Organs: | | osure may cause effects simila atory System, Central Nervous | | e exposure. | | | | |
| 4.7 | Medical Conditions | NA | | | | HEALTH | | 1 | |
| | Aggravated by Exposure: | | | | | FLAMMA | BILITY | 0 | |
| | | | | | | PHYSICA | L HAZARDS | 0 | |
| | | | | | | PROTEC | TIVE EQUIPM | ENT X | |
| | | | | | | EYES | SKIN L | UNGS | |
| | | | 5. FIREFIGHT | | | | | | |
| 5.1 | Fire & Explosion Hazards: | | al can burn but will not readily at high temperatures to form to | y ignite. Howeve | er, if involved | , | | ' | |
| 5.2 | Extinguishing Methods: | | emical, Alcohol Foam, Dry Che | | | | | - | |
| 5.3 | Firefighting Procedures: | Use extingu containers. | ishing media most appropria For small fires, use dry chemic arbon dioxide, alcohol-resista | ate for the surro | ounding fire. e, or water s | Do NOT g pray. For la | get water inside rge fires, use dry | | |
| | | sewers, drai gear includi | water until well after fire is ou ins, drinking water supply, or ng NIOSH-approved positive | any natural wate pressure self-co | erway. Firefi ontained brea | ghters mus athing appa | t use full bunker aratus to protect | | |
| | | against pote | ntial hazardous combustion or | decomposition p | roducts and o | oxygen defic | ciencies. | | |
| | | | 6. ACCIDENTAL R | ELEASE M | EASUR | ES | | | |
| 6.1 | Spills: | Before clear Equipment, chemical-res | ning any spill or leak, individ including protective gloves a sistant apron may be required f | duals involved in nd eyewear. Pl or clean-up of lar | n spill cleanu lastic or rub ge spills. | up must we ber gloves, | respirator, eye/ | face protection and | |
| | | material suc Large Spills | : Wear appropriate protective h as vermiculite or sand to soa :: Keep incompatible materia azard area and keep unauthor | k up the product a als away from sp | and place int bill. Stay up | o a containe | er for later dispos away from spill | al. or release. Isolate | |
| | | | appropriate protective equipr | | | | | | |

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SDS Revision Date: 4/30/2015

| | 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). | | | | | | | | | | |
| 7.2 | Storage & Handling: | Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Keep away from incompatible substances. Protect containers from physical damage. Store product in well-filled, appropriate coated and tightly closed containers avoiding influence of oxygen/air, light and humidity. Store at a cool and constant temperature. | | | | | | | | | | |
| 7.3 | | | | | | | | | | | | |
| | | 8. EXPOSURE CON | TROL | .S & I | PERSC | DNAL F | ROTE | СТЮ | N | | | |
| 8.1 | Exposure Limits: | | ACC | SIH | | NOHSC | | | OSHA | | OTHER | |
| | ppm (mg/m ³) | 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 | |
| | | ZINC CHLORIDE | (1) | NA | (1) | NF | 5 | (1) | NA | 50 | FUME | |

| | | GIVATIME | (2.0) | 11/1 | (2.0) | 1.41 | 1.11 | (0) | 1 1 1 | 11/1 | |
|-----|--|---|---------|---------|------------|------------|----------|----------|--------|----------|--------------------|
| | | ZINC CHLORIDE | (1) | NA | (1) | NF | 5 | (1) | NA | 50 | FUME |
| | | CARBON BLACK | (3.5) | NA | (3.5) | NF | NF | (3.5) | NA | NA | |
| | | IRON | (5) | NA | NF | NF | NF | (10) | NA | NA | 0.5 – NIOSH |
| | | PETROLEUM ASPHALT | 0.5 | NA | NF | NF | NF | 0.5 | NA | NA | |
| | | AMMONIUM CHLORIDE | (10) | NA | (10) | (20) | NF | (10) | NA | NA | |
| | | 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 FRAC |
| 8.2 | Ventilation & Engineering Controls: | General mechanical (e.g., fans exhaust ventilation to effectivel product. Ensure appropriate de | ý remov | e and p | prevent bu | ildup of v | apors or | mist gen | erated | from the | e handling of this |
| 8.3 | Respiratory Protection: | No 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, use 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 States, or Australia. | | | | | | | | | |
| 8.4 | Eye Protection: | Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). | | | | | | | | | |
| 8.5 | Hand Protection: | Where contact is likely, impervious gloves are recommended. Do not wear rings, watches or jewelry. When handling large quantities of fluid (e.g., \geq 1 gallon (3.8 L)), wear corrosion-resistant gloves. | | | | | | | | | |
| 8.6 | Body Protection: | No apron required when handling sealed undamaged battery. Where contact is likely, corrosion- resistant apron, clothing and boots should be worn. Eye wash stations and deluge showers should be available. | | | | | | | | | |

| 9.1 | Appearance: | 9. PHYSICAL & CHEMICAL PROPERTIES |
|------|---|--|
| 9.2 | Odor: | Cylindrical battery |
| - | | No apparent odor (sealed). Manganese dioxide/zinc powder is black/grey (broken). |
| 9.3 | Odor Threshold: | NA |
| 9.4 | pH: | NA |
| 9.5 | Melting Point/Freezing Point: | NA |
| 9.6 | Initial Boiling Point/Boiling Range: | NA |
| 9.7 | Flashpoint: | NA |
| 9.8 | Upper/Lower Flammability Limits: | NA |
| 9.9 | Vapor Pressure: | NA |
| 9.10 | Vapor Density: | NA |
| 9.11 | Relative Density: | 0.990-1.040 (at 25 °C) |
| 9.12 | Solubility: | Sealed electric battery: Insoluble. |
| 9.13 | Partition Coefficient (log Pow): | NA |
| 9.14 | Autoignition Temperature: | NA |
| 9.15 | Decomposition Temperature: | NA |
| 9.16 | Viscosity: | NA |
| 9.17 | Other Information: | NA |

HARBOR FREIGHT TOOLS Quality Tools at Ridiculously Low Prices

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| Prepa | red to OSHA, ACC, ANSI, N | OHSC, WHMIS, 2001/58 & 1272/2008/EC Standards | SDS Revision: 1.0 | SDS Revision Date: 4/30/2015 | | | | | | | |
|-------|--|---|--------------------------------|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
| | | 10. STABILITY & R | | | | | | | | | |
| 10.1 | Stability: | Stable under normal conditions; unstable with heat | or contamination. | | | | | | | | |
| 10.2 | Hazardous Decomposition Products: | Oxides of carbon (CO, CO ₂). | | | | | | | | | |
| 10.3 | | | | | | | | | | | |
| 10.4 | 10.4 Conditions to Avoid: Open flames, sparks, high heat, incompatible substances and direct sunlight. | | | | | | | | | | |
| 10.5 | 10.5 Incompatible Substances: Avoid extreme heat and ignition sources. Store away from oxidizers. Do not exceed heat, crush, disassemble, short- circuit or recharge. | | | | | | | | | | |
| | | onour of reolitige. | | | | | | | | | |
| | | 11. TOXICOLOGICAL | INFORMATION | | | | | | | | |
| 11.1 | | | | | | | | | | | |
| 11.2 | Toxicity Data: | | | | | | | | | | |
| 11.3 | Acute Toxicity: | See section 4.4 | | | | | | | | | |
| 11.4 | Chronic Toxicity: | See section 4.5 | | - / | | | | | | | |
| 11.5 | | | | | | | | | | | |
| 11.6 | Reproductive Toxicity: | This product contains <u>Lead</u> , which is suspected of c | 0 1 <i>j</i> | humans. | | | | | | | |
| | Mutagenicity: Embryotoxicity: | This product is not reported to produce mutagenic e | | | | | | | | | |
| | Teratogenicity: | This product is not reported to produce embryotoxic This product is not reported to cause teratogenic ef | | | | | | | | | |
| | Reproductive Toxicity: | | | humans | | | | | | | |
| 11.7 | | | | | | | | | | | |
| 11.8 | Biological Exposure Indices: NA | | | | | | | | | | |
| 11.9 | Physician Recommendations: | Treat symptomatically and supportively. | | | | | | | | | |
| | | | | | | | | | | | |
| | | 12. ECOLOGICAL IN | FORMATION | | | | | | | | |
| 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 | | | | | | | | | |
| | | | | | | | | | | | |
| | | 13. DISPOSAL CONS | | | | | | | | | |
| 13.1 | Waste Disposal: | Dispose of in accordance with federal, state, provin | cial and local regulations. | | | | | | | | |
| 13.2 | Special Considerations: | NA | | | | | | | | | |
| | | | | | | | | | | | |
| | | 14. TRANSPORTATION | | | | | | | | | |
| | | nber, proper shipping name, hazard class & division, | | ach mode of transportation. Additional | | | | | | | |
| 14.1 | 49 CFR (GND): | e required by 49 CFR, IATA/ICAO, IMDG and the CT NOT REGULATED | DGR. | | | | | | | | |
| 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 IN | | | | | | | | | |
| 15.1 | SARA Reporting Requirements: | This product contains Lead and Zinc, substances s | • | | | | | | | | |
| 15.2 | SARA Threshold Planning Quantity: | There are no specific Threshold Planning Quantitie | | | | | | | | | |
| 15.3 | TSCA Inventory Status: | The components of this product are listed on the TS | SCA Inventory or are otherwise | exempt. | | | | | | | |
| 15.4 | CERCLA Reportable Quantity (RQ): | <u>Zinc</u> : 454 kg (1,000 lbs); | | | | | | | | | |
| 15.5 | Other Federal Requirements: | Lead is listed as Hazardous Air Pollutants (HAPs under the Clean Water Act (CWA). Zinc and Lead contain any Class 1 or Class 2 ozone depletors. | | | | | | | | | |

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| | | 15. REGULATORY INFORMATION – cont'd | | | | | | |
|------|-------------------------------|--|--|--|--|--|--|--|
| 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) | | | | | | |
| 15.7 | State Regulatory Information: | Lead can be found on the following state criteria list: California Proposition 65 (CA65), 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), and Washington Permissible Exposures List (WA). <u>Graphite</u> is found on the following state criteria lists: FL, MA, MN, PA, WA. <u>Manganese Dioxide</u> is found on the following state criteria lists: IL, MA, PA, and RI. <u>Zinc</u> is found on the following state criteria lists: IL, MA, NJ, and PA. <u>Carbon Black</u> is listed in the following state criteria lists: California Proposition 65 (CA65), MA, MN, NJ, and PA. No other 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), MA, MN, NJ, and PA. No other 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), MA, MN, NJ, and PA. No other supredients 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), Illinois Hazardous Substances List (IL), 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), Rhode Island Hazardous Substances List (RI), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). WARNING: This product contains a substance(s) known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires this warning be given to customers | | | | | | |
| 15.8 | Other Requirements: | Teproductive narm. California law requires this warning be given to customers in the State of California. The primary component of this product is listed in Annex I of EU Directive 67/548/EEC: Zinc Chloride: Corrosive (C); Environmental Danger (N). <u>Risk Phrases</u> (R): 22-34-50/53 – Harmful if swallowed. Causes burns. Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. <u>Safety Phrases</u> (S): 1/2-26-36/37/39-45-60-61 – Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing/ gloves and eye/face protection. In case of accident or if you feel unwell seek medical advice immediately (show label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/SDS. | | | | | | |
| | | 16. OTHER INFORMATION | | | | | | |
| 16.1 | Other Information: | WARNING! HARMFUL IF SWALLOWED. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Do not eat, drink or smoke while sing this product. Avoid release to the environment. Wear protective gloves/eye protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Collect spillage. IF INGESTED: Call the NATIONAL BATTERY INGESTION HOTLINE at +1 (202) 625-3333 collect, day or night. In Canada, call +1 (416) 813-5900. KEEP OUT OF REACH OF CHILDREN. WARNING: This product contains a substance(s) known to the State of California to cause cancer, birth defects or other reproductive harm. | | | | | | |
| 16.2 | Terms & Definitions: | See last page of this Safety Data Sheet. | | | | | | |
| 16.3 | Disclaimer: | | | | | | | |
| 16.4 | Prepared for: | Harbor Freight Tools USA, Inc. 26541 Agoura Road Calabasas, CA 91302 USA Tel: +1 (805) 388-1000 http://www.harborfreight.com/ | | | | | | |
| 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 | | | | | | |

SAFETY DATA SHEET

HAZARD RATINGS:

3

ACD Acidic

0 Minimal Hazard 1 Slight Hazard

2 Moderate Hazard

Severe Hazard 4 Extreme Hazard Page 6 of 6 HFT-61676

REACTIVITY

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 1.0

SDS Revision Date: 4/30/2015

FLAMMABILITY

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 | 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 M | EASURES: | | |

Cardiopulmonary resuscitation - method in which a person w CPR stopped receives manual chest compressions and breathing t and provide oxygen to the body.

| HMIS- | HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS: | | | | | | | | |
|-------|---|--|---------------------|--|--|--|--|--|--|
| 0 | Minimal Hazard | | HEALTH | | | | | | |
| 1 | Slight Hazard | | FLAMMABILITY | | | | | | |
| 2 | Moderate Hazard | | PHYSICAL HAZARDS | | | | | | |
| 3 | Severe Hazard | | PERSONAL PROTECTION | | | | | | |
| 4 | Extreme Hazard | | | | | | | | |

PERSONAL PROTECTION RATINGS:

| A | | | | | | G | | E | | | |
|----------------------------------|-------------------------------|---------|-----------|-------------------------|----|-------------------------|--------------------|------|------------------------------|---------|-----------------|
| в | | | | | | Н | | E | | 品 | 8 |
| c 🎯 |) (| | Par la | | | I | 0 | E | | 8 | |
| D 🕞 | | | Par la | | | J | | E | | Î | 8 |
| E | | | | | | Κ | 5 | E | | | |
| F | | | Pa B | | | X | Consult special | | | | r SOPs fo s. |
| Safety Gl | Safety Glasses Splash Goggles | | | F | | e Shield & | | | Glove | es | |
| Boot | s | | Synthet | ic Apron | F | | tive Cloth | ning | Du | Ist Res | pirator |
| | | | 8 | 3 | | | | | | Ĩ | |
| Full Face Re | spira | ator | | apor Half- espirator | | Full Face Respirator | | | Airline Hood/Mask or SCBA | | |
| OTHER ST | | DARD | | • | S: | ne | opilator | | | 0,00 | 54 |
| ML Maximum Limit | | | | | - | | | | | | |
| mg/m3 milligrams per cubic meter | | | | | | | | | | | |
| NA Not Available | | | | | | | | | | | |
| | ND Not Determined | | | | | | | | | | |
| | NE | Not Est | tablished | | | | | | | | |
| | NF | Not Fo | und | | | | | | | | |
| | NR | No Res | sults | | | | | | | | |

| NF | Not Found | | | | | | | |
|-----------------------------|---|--|--|--|--|--|--|--|
| NR | No Results | | | | | | | |
| ppm | parts per million | | | | | | | |
| SCBA | Self-Contained Breathing Apparatus | | | | | | | |
| NATIONAL FI | NATIONAL FIRE PROTECTION ASSOCIATION: NFPA | | | | | | | |
| FLAMMABILI | TY LIMITS IN AIR: | | | | | | | |
| Autoignition Temperature | Minimum temperature required to initiate combustion in air with no other source of ignition | | | | | | | |
| LEL | Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source | | | | | | | |

Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

UEL

| | ACD | Aciulo | | | | | | | |
|------------------------------------|---------------------|--|--|--|--|--|--|--|--|
| | ALK | Alkaline | | | | | | | |
| | COR | Corrosive | | | | | | | |
| | ₩ | Use No Wat | ter | HEALTH K ODEOLU | | | | | |
| | OX | Oxidizer | | SPECIAL | | | | | |
| | TREFOIL | Radioactive | | Theoremony of the second s | | | | | |
| | TOXICOLO | GICAL INFO | ORMATION: | | | | | | |
| whose heart has to circulate blood | | LD ₅₀ | Lethal Dose (solids & lic s | uids) which kills 50% of the exposed animals | | | | | |
| | | LC ₅₀ | Lethal concentration (ga | ses) which kills 50% of the exposed animal | | | | | |
| | | ppm | Concentration expressed | d in parts of material per million parts | | | | | |
| | | TD _{Io} | Lowest dose to cause a | symptom | | | | | |
| , | | TCLo | Lowest concentration to | cause a symptom | | | | | |
| ARDS | | D _{io} , & LD _o or LC _{io} , & LC _o | Lowest dose (or concent | tration) to cause lethal or toxic effects | | | | | |
| OTECTION | | IARC | International Agency for | Research on Cancer | | | | | |
| | | NTP | National Toxicology Pro | gram | | | | | |
| | | RTECS | Registry of Toxic Effects of Chemical Substances | | | | | | |
| | | BCF | Bioconcentration Factor | | | | | | |
| | | TL _m | Median threshold limit | | | | | | |
| | log K _{ov} | v or log K _{oc} | Coefficient of Oil/Water | Distribution | | | | | |
| | REGULATO | ORY INFOR | MATION: | | | | | | |
| | WHMIS | Canadian W | orkplace Hazardous Material Information System | | | | | | |
| | DOT | U.S. Depart | rtment of Transportation | | | | | | |
| | TC | Transport C | Canada | | | | | | |
| 6.6 | EPA | U.S. Enviror | nmental Protection Agency | 4 | | | | | |
| 0 | DSL | Canadian D | omestic Substance List | | | | | | |
| | NOHSC | National Oc | cupational Health and Saf | ety Commission (Australia) | | | | | |
| 0 0 | NDSL | Canadian N | on-Domestic Substance L | ist | | | | | |
| | PSL | Canadian P | riority Substances List | | | | | | |
| | TSCA | U.S. Toxic S | Substance Control Act | | | | | | |
| rvisor or SOPs for | EU | | nion (European Union Dir | , | | | | | |
| irections. | WGK | - | hrdungsklassen (German | | | | | | |
| | HMIS-III | | | Hazardous Materials Identification System | | | | | |
| Gloves | | | | DENTIFICATION (WHMIS) SYSTEM: | | | | | |
| | | | | | | | | | |

| \bigcirc | ۲ | ٨ | Ø | () | ۲ | | | |
|------------------------------|-----------|-----------|----------|------------|------------|-----------|----------|--|
| 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: | | | | | | | | |

| | | × | ¥ | 8 | • | × | × |
|-----------|-----------|-----------|---------|-----------|-------|----------|---------|
| с | E | F | Ν | 0 | т | Xi | Xn |
| Corrosive | Explosive | Flammable | Harmful | Oxidizing | Toxic | Irritant | Harmful |

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

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