




Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

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|---|-----------------------------------|------------------------------|
|  | CLASS E: Corrosive liquid. | HCS CLASS: Corrosive liquid. |
| WHMIS (Pictograms) | WHMIS (Classification) | HCS |

Section 1. Chemical Product and Company Identification

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|-------------------------------------|--|---|-------------------------|
| Product Name/ Trade name | Liquid Chisel | Code | 127 |
| Synonym | Non Butyl Cleaner Degreaser | CAS # | Not applicable. |
| Chemical Family | Not available. | Validation Date | 3/2/2007 |
| Chemical Formula | Not applicable. | Print Date | 3/28/2007 |
| Manufacturer/ Supplier | Betco Corporation 1001 Brown Avenue Toledo, Oh 43607 (419) 241-2156 | In Case of Emergency | Chemtrec (800) 424-9300 |
| TSCA | TSCA Inventory: All components listed or are exempt from listing. | | |
| DSL/ NDSL | All components listed unless noted elsewhere on this MSDS | | |
| | | Protective Clothing  | |

Section 2. Composition and Information on Ingredients

| Name | CAS # | % by Weight | Exposure Limits | LC ₅₀ /LD ₅₀ |
|---------------------|-----------|-------------|---|------------------------------------|
| Sodium Metasilicate | 6834-92-0 | 0-5 | Not available. | Not available. |
| Sodium Hydroxide | 1310-73-2 | 1-5 | TWA: 2 (mg/m ³) from OSHA (PEL) [United States] | Not available. |
| Nonionic Surfactant | 9016-45-9 | 0-5 | Not available. | Not available. |
| Cationic Surfactant | 5197-80-8 | 0-5 | Not available. | Not available. |

Section 3. Hazards Identification

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| Potential Acute Health Effects | Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. |
| Potential Chronic Health Effects | Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result in skin burns and ulcerations. |
| Carcinogenic Effects | Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. |

Section 4. First Aid Measures

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| Eye Contact | Call a poison control center or doctor immediately for treatment advice. Hold eye open and rinse slowly and thoroughly with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. |
| Skin Contact | Remove contaminated clothing and shoes. Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice. |
| Inhalation | Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration., preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice. |

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| Ingestion | Call a poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person |
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Section 5. Fire Fighting Measures

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| Products of Combustion | Not available. |
| Fire Fighting Media and Instructions | N/A |
| Special Remarks on Fire Hazards | N/A |
| Special Remarks on Explosion Hazards | N/A |


Section 6. Accidental Release Measures

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| Small Spill and Leak | Absorb with an inert material and place in an appropriate waste disposal container. |
| Large Spill and Leak | Absorb with an inert material and put the spilled material in an appropriate waste disposal. |
| Personal Protection in Case of a Large Spill | Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. |

Section 7. Handling and Storage

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| Precautions | Avoid contact with skin and eyes Avoid breathing vapors or spray mists. |
| Incompatibility | Strong acids. |
| Storage | Keep container dry. Keep in a cool place. Corrosive materials should be stored in a separate safety storage cabinet or room. Keep out of reach of children. Not for use or storage in or around the home. |

Section 8. Exposure Controls/Personal Protection

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| Engineering Controls | Good general ventilation should be sufficient to control airborne levels. |
| Personal Protection | |
| <i>Eyes</i> | Splash goggles. |
| <i>Body</i> | Long Pants and Long Sleeves to avoid skin contact. |
| <i>Respiratory</i> | In case of insufficient ventilation, wear suitable respiratory equipment. |
| <i>Hands</i> | Gloves (impervious). |
| Protective Clothing (Pictograms) |  |
| Exposure Limits | Not available. |

Section 9. Physical and Chemical Properties

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|--------------------------------------|-----------------------|--------------|-----------------|
| Physical State and Appearance | Liquid. | Odor | Characteristic. |
| Molecular Weight | Not applicable. | Taste | Not available. |
| pH | 12.5 to 13.5 [Basic.] | Color | Green. |
| Boiling/Condensation Point | 214°F initial | | |
| Melting/Freezing Point | Not available. | | |
| Critical Temperature | Not available. | | |

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| Instability Temperature | Not available. |
| Specific Gravity | 1.06 (Water = 1) |
| Vapor Pressure | 20mm Hg @ 68°F |
| Vapor Density | >1 (Air = 1) |
| Volatility | 85 |
| VOC | 0 (g/l). |
| Evaporation Rate | <1 compared to Water |
| Dispersion Properties | See solubility in water. |
| Solubility | Easily soluble in cold water. |
| The Product is: | May be combustible at high temperature. |
| Auto-ignition Temperature | Not available. |
| Flash Points | CLOSED CUP: >98.889°C (210°F). |
| Flammable Limits | Not available. |
| Fire Hazards in Presence of Various Substances | No specific information is available in our database regarding the flammability of this product in presence of various materials. |
| Explosion Hazards in Presence of Various Substances | No specific information is available in our database regarding the product's risks of explosion in the presence of various materials. |

Section 10. Stability and Reactivity Data

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| Stability | The product is stable. |
| Incompatibility with Various Substances | Strong acids. |
| Hazardous Decomposition Products | not available |

Section 11. Toxicological Information

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| Routes of Entry | Absorbed through skin. Eye contact. Inhalation. Ingestion. |
| Toxicity to Animals | Acute oral toxicity (LD50): 3030 mg/kg [Rat]. (Tetrasodium EDTA). |
| Acute Effects on Humans | <p><i>Eyes</i> Severe eye irritant. May cause redness, swelling, or possible corneal injury.</p> <p><i>Skin</i> Severe skin irritant. May cause redness or swelling. Prolonged or repeated contact may cause dermatitis.</p> <p><i>Inhalation</i> Slightly irritating to the respiratory system.</p> <p><i>Ingestion</i> Irritating to the mouth, throat, and gastrointestinal system. Large doses may cause vomiting and diarrhea.</p> |
| Chronic Effects on Humans | Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result in skin burns and ulcerations. |
| Special Remarks on Toxicity to Animals | No additional remark. |

Special Remarks on Chronic Effects on Humans No additional remark.

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Will Not Occur

Products of Biodegradation Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation Not available.

Special Remarks on the Products of Biodegradation No additional remark.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Not available.

Section 14. Transport Information

DOT (U.S.A) (Pictograms)



TDG Classification Class 8: Corrosive material



PIN UN, Proper Shipping Name, PG Shipping name: CORROSIVE LIQUIDS, N.O.S. UNNA: UN1760 PG: Not available.

Maritime Transportation Not available.

Special Provisions for Transport Not available.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) CLASS E: Corrosive liquid.



Regulatory Lists No products were found.

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

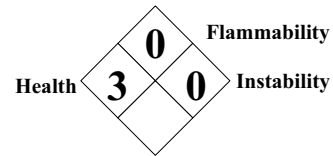
Other Classifications HCS (U.S.A.) HCS CLASS: Corrosive liquid.

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| USA Regulatory Lists | <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene Oxide < 1 ppm</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene Oxide < 1 ppm</p> <p>Pennsylvania RTK: Propylene Glycol</p> <p>Massachusetts RTK: Ethylene Oxide</p> <p>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Nonionic Surfactant: immediate health hazard</p> |
| DSD (EEC) | R35- Causes severe burns. |
| International Regulations Lists | No products were found. |

Hazardous Material Information System (U.S.A.)

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|-----------------|---|
| Health | 3 |
| Flammability | 0 |
| Physical Hazard | 0 |

National Fire Protection Association (U.S.A.)



The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Section 16. Other Information

Validated by CRushton on 3/2/2007.

Verified by CRushton.

Printed 3/28/2007.

Information Contact Betco Corporation
 1001 Brown Avenue
 Toledo, Ohio 43607

Notice to Read:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on 3/2/2007.

Liquid Chisel

Page: 5/5

Continued on Next Page