

Material Safety Data Sheet This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

| | | E | | HCS CL | ASS: | Corrosive liquid. |
|--------------------------|------------------|---|-----------------------------|---------------------------------|------|----------------------|
| WHMIS (Pictogram | ns) | WHMIS (Classification) | | | | HCS |
| Section 1. Chem | ical Pr | oduct and Company Identification | | | | |
| Product Name/ Trade name | Citru | is Chisel | Cod | e | | 167 |
| Synonym | Natura | l Citrus Cleaner/Degreaser | CAS | 5# | | Not applicable. |
| Chemical Family | Not av | ailable. | Vali | dation D | ate | 3/22/2004 |
| Chemical Formula | Not ap | plicable. | Prin | t Date | | 3/27/2004 |
| Manufacturer/ Supplier | 1001 E Toledo | Corporation Brown Avenue 9, Ohio 43607 241-2156 | <u>In Ca</u> <u>Emer</u> | <u>ise of</u> i <u>gency</u> | Che | mtrec (800) 424-9300 |
| TSCA | TSCA I | nventory: All components listed or are exempt from listing. | | | | |
| DSL/ NDSL | All com | ponents listed unless noted elsewhere on this MSDS | | | | tective Clothing |

| Section 2. Composition and Information on Ingredients | | | | | |
|--|-----------|----------------|---|--|--|
| Name | CAS# | % by Weight | Exposure Limits | LC ₅₀ /LD ₅₀ | |
| 1) Sodium Metasilicate | 6834-92-0 | <10 | Not available. | Not available. | |
| 2) Nonionic Surfactant | 9016-45-9 | <2 | Not available. | Not available. | |
| 3) Cationic Surfactant | 5197-80-8 | <2 | Not available. | Not available. | |
| 4) Sodium Hydroxide | 1310-73-2 | 1-5 | TWA: 2 (mg/m ³) from OSHA (PEL) [United States] | Not available. | |
| 5) Tetrasodium salt of ethylendiaminetetraacetic acid | 64-02-8 | 1-5 | Not available. | ORAL (LD50): Acute: 3030 mg/kg [Rat]. | |

| Section 3. Hazards Identification | | |
|-------------------------------------|---|--|
| Potential Acute Health Effects | Corrosive to skin and eyes on contact. Skin contact may produce burns. May be irritating to the mucous membranes of the nose, throat and lungs. | |
| 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 | | |
|-------------------------------|--|--|
| Eye Contact | Corrosive to eyes and skin. 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. | |

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

| Section 5. Fire Fighting Measures | | |
|---|--------------------------|--|
| Products of Combustion | Not available. | |
| Fire Fighting Media and Instructions | Non-flammable substance. | |
| Special Remarks on Fire Hazards | Not available. | |
| Special Remarks on Explosion Hazards | No additional remark. | |

| Section 6. Accidental Release Measures | | |
|---|--|--|
| 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 Splash goggles. Full suit. Boots. Gloves. a Large Spill | | |

| Section 7. Hand | Section 7. Handling and Storage | | |
|-----------------|--|--|--|
| Precautions | Keep locked up. Keep container dry. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid breathing vapors or spray mists. Keep out of reach of children. For Institutional and Commercial Use | | |
| Incompatibility | Strong acids. acids | | |
| Storage | Keep out of reach of children. Corrosive materials should be stored in a separate safety storage cabinet or room. For Institutional and Commercial Use Not for use or storage in or around the home. | | |

Section 8. Exposure Controls/Personal Protection

| Engineering Controls | Good general ventilation should be sufficient to control airborne levels. |
|-------------------------------------|---|
| Personal Protection | |
| Eyes | Splash goggles. |
| Body | Work uniform or laboratory coat. |
| Respiratory | Wear appropriate respirator when ventilation is inadequate. |
| Hands | Gloves (impervious). |
| Protective Clothing (Pictograms) | |

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Exposure Limits

Not available.

| Section 9. Physical and Chemical Properties | | | | |
|---|-------------------|----|------|----------------|
| Physical State and Appearance | Liquid. | Od | dor | Pleasant. |
| Molecular Weight | Not applicable. | Та | aste | Not available. |
| рН | 13 to 14 [Basic.] | Co | olor | Orange. |
| Boiling/Condensation Point | 214°F initial | | | |
| | | | | |

| Melting/Freezing Point | Not available. |
|---|--|
| Critical Temperature | Not available. |
| Instability Temperature | Not available. |
| Specific Gravity | 1.06 (Water = 1) |
| Vapor Pressure | 20mm Hg @ 68°F |
| Vapor Density | >1 (Air = 1) |
| Volatility | 85 |
| VOC | 0.15% (By Weight) |
| Evaporation Rate | <1 compared to Water |
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| Dispersion Properties | See solubility in water. |
| Solubility | Easily soluble in cold water. |
| The Product is: | Non-flammable. |
| Auto-ignition Temperature | Not available. |
| Flash Points | None to Boiling (TCC) |
| Flammable Limits | Not Applicable |
| Fire Hazards in Presence of Various Substances | Non-flammable. |
| Explosion Hazards in Presence of Various Substances | Risks of explosion of the product in presence of static discharge: Not available. Risks of explosion of the product in presence of mechanical impact: Not available. |

| Section 10. Stability and Reactivity Data | | |
|---|------------------------|--|
| Stability | The product is stable. | |
| Incompatibility with Various Substances | Strong acids. acids | |
| Hazardous Decomposition Products | Not available. | |

| Section 11. Toxicological Information | | |
|---------------------------------------|---|--|
| Routes of Entry | Eye Contact Ingestion. INHALATION Skin contact. | |
| Toxicity to Animals | Acute oral toxicity (LD50): 3030 mg/kg [Rat]. (Tetrasodium EDTA). | |
| Acute Effects on Humans | | |
| Eyes | Corrosive to skin and eyes on contact. Eye contact can result in corneal damage . | |
| Skin | Skin contact may produce burns. | |
| Inhalation | Slightly irritating to the respiratory system. | |
| Ingestion | Irritating to the mouth, throat, and gastrointestinal system. Large doses may cause vomiting and diarrhea. Irritating to mouth, throat and stomach. May cause burns to mouth, throat and stomach. May cause headache, dizziness, nausea, vomiting and diarrhea. | |
| Chronic Effects on Humans | Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result in skin burns and ulcerations. | |
| | | |

Special Remarks on Chronic No additional remark. Effects on Humans

| Section 12. Ecological Information | | | |
|--|---|--|--|
| Ecotoxicity | Not available. | | |
| BOD5 and COD | Not available. | | |
| 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) | CORROSIVE | | | |
| TDG Classification | 8 | | | |
| PIN UN, Proper Shipping Name, PG | Shipping name: Corrosive liquids n.o.s. UNNA: UN1760 PG: | 11 | | |
| Maritime Transportation | Not available. | | | |
| Special Provisions for Transport | Not available. | | | |

| Section 15. Other Regulatory Information and Pictograms | | | | | |
|---|--|------------------------------|--|--|--|
| WHMIS (Classification) | E | | | | |
| 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 | | 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 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 Massachusetts RTK: Ethylene Oxide | | |
|---|---|---|--|--|
| | | SARA 311/312: Sodium Metasilicate SARA 313: No components were found. | | |
| | DSD (EEC) | R35- Causes severe burns. | | |
| | International Regulations Lists | No products were found. | | |
| Hazardous Material Information System (U.S.A.) | Health Flammability Physical Hazard | 3National Fire0Protection0Association (U.S.A.)Health30Instability | | |
| The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE Specific Hazard MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product. | | | | |
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| Section 16. Other Int | formation | | | |
| Validated by CRushton on | 3/22/2004. | Verified by CRushton. Printed 3/27/2004. | | |

Information Contact Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607

Notice to Reader

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 3/22/2004.

Citrus Chisel

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