

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

| IDENTITY AND DISTRIBUTOR'S INFORMATION | | | | | | |
|---|--|----------------------------------|---|--|-----------------|---------------------------|
| NFFPA Rating: Health-1; Flammability-1; Reactivity-0; Special-B | | | HMIS Rating: Health-1; Flammability-1; Reactivity-0; Personal Protection-B | | | |
| Manufactured For: Lagasse Brothers, Inc. Address: 1525 Kuebel Street Address: New Orleans, LA 70123 Phone: 800-989-7487 | | | DOT Hazard Classification: ORM-D Identity (trade name as used on label): Bravo Foam Disinfectant Surface Cleaner | | | |
| EMERGENCY RESPONSE NUMBER: 800-255-9324 | | | MSDS Number: 250 Revision- 11 Information Calls: (770)422-2071 Date Prepared: 03/26/99 Prepared By: ES | | | |
| NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA | | | | | | |
| SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION | | | | | | |
| COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater) | | CAS Number | SARA III LIST | OSHA PEL (ppm) | ACGIH TLV (ppm) | Carcinogen Ref. Source ** |
| ISOBUTANE | | 75-28-5 | No | 800 | 800 | d |
| DIETHYLENE GLYCOL ETHYL ETHER | | 111-90-0 | Yes | N/E | N/E | d |
| ETHYLENE GLYCOL MONOBUTYL ETHER | | 111-76-2 | No | 50 | 25 | d |
| TETRASODIUM ETHYLENEDIAMINE TETRAACETATE | | 64-02-8 | No | N/E | N/E | d |
| | | | | | | |
| | | | | | | |
| SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS | | | | | | |
| Boiling Point: N/A | | | Specific Gravity (H2O=1): Concentrate Only = 1.0 | | | |
| Vapor Pressure: PSIG @ 70°F (Aerosols): Max.60 | | | Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A | | | |
| Vapor Density (Air = 1): N/E | | | Evaporation Rate (= 1): N/E | | | |
| Solubility in Water: Completely soluble. | | | Water Reactive: No | | | |
| Appearance and Odor: White foam, pine fragrance. | | | | | | |
| SECTION 3 - FIRE AND EXPLOSION HAZARD DATA | | | | | | |
| FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) NON-FLAMMABLE | | Auto Ignition Temperature N/E | | Flammability Limits in Air by % in Volume: % LEL: N/E % UEL: N/E | | |
| FLASH POINT AND METHOD USED (non-aerosols): N/A | | | EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide. | | | |
| SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus. | | | | | | |
| Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 130°F or the container may rupture. | | | | | | |
| SECTION 4 - REACTIVITY HAZARD DATA | | | | | | |
| STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE | | | HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR | | | |
| Incompatibility (Mat. to avoid): Strong oxidizers | | | Conditions to Avoid: Open flame, welding arcs, heat. | | | |
| Hazardous Decomposition Products: Carbon monoxide, carbon dioxide. | | | | | | |
| SECTION 5 - HEALTH HAZARD DATA | | | | | | |
| PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS | | | | | | |
| ACUTE EFFECTS: | | | | | | |
| Inhalation: Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness. | | | | | | |
| Eye Contact: Irritation. | | | Skin Contact: Mild irritation. | | | |
| Ingestion: Possible chemical pneumonitis if aspirated into lungs. Nausea. | | | | | | |
| CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of this mixture) May cause diarrhea, vomiting, gastrointestinal irritation. Lab animals have experienced anemia, liver, kidney, lung, blood damage to Glycol Ether EB. | | | | | | |
| Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions. | | | | | | |
| EMERGENCY FIRST AID PROCEDURES | | | | | | |
| Eye Contact: Flush with water for 15 minutes. If irritated, seek medical attention. | | | | | | |
| Skin Contact: Wash with soap and water. If irritated, seek medical attention. | | | | | | |
| Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention. | | | | | | |
| Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention. | | | | | | |
| SECTION 6 - CONTROL AND PROTECTIVE MEASURES | | | | | | |
| Respiratory Protection (specify type): If vapor concentration exceeds TLV, use respirator approved by NIOSH in positive pressure mode. | | | | | | |
| Protective Gloves: Latex, if skin easily irritated. | | | Eye Protection: Safety glasses recommended. | | | |
| Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV. | | | | | | |
| Other Protective Clothing & Equipment: None | | | | | | |
| Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing. | | | | | | |
| SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE | | | | | | |
| Steps To Be Taken If Material Is Spilled Or Released: Absorb with suitable medium. Incinerate or landfill according to local, state or Federal regulations. DO NOT FLUSH TO SEWER. | | | | | | |
| Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard. | | | | | | |
| Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130°F. | | | | | | |
| Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Avoid breathing vapors. | | | | | | |

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only