MATERIAL SAFETY DATA SHEET

Share Corporation P.O. Box 245013 Milwaukee, WI 53224

GENERAL INFORMATION NUMBER: (414) 355-4000 EMERGENCY TELEPHONE NUMBER: (800) 776-7192

CHEMTREC: (800) 424-9300



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I - Product Identification

Battery Cleaner

PRODUCT CODE: 8205

CHEMICAL FORMULATION: Pressurized water based alkaline cleaner.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0 HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients Values reported as TWA unless noted. APPROX **OSHA ACGIH** EPA 40 CFR: **SUBSTANCE** PEL **TLV** 302 355 372 CAS# % N/D N/E N 106-97-8 Butane 800 ppm N N Sodium Bicarbonate N/D N/E 114-55-8 N/E N N N

Key: **PEL**: Permissible Exposure Limit **TLV:** Threshold Limit Value **C**: Ceiling level **STEL**: Short Term Exposure Limit **N/A**: Not Applicable **N/D**: Not Determined **N/E**: Not Established **Y**: Yes **N**: No

N/A: Not Applicable N/D: Not Determined N/E: Not Establis **302**: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): < 0 to 212 **SPECIFIC GRAVITY** (WATER = 1): 0.93 ± 0.05

VAPOR PRESSURE (mm Hg): N/D VOC CONTENT (% by weight): N/D

VAPOR DENSITY (AIR = 1): N/D **EVAPORATION RATE (WATER = 1):** N/D

SOLUBILITY IN WATER: N/D **pH:** 9.25 ± 0.5

APPEARANCE AND ODOR: Yellow foam, characteristic odor. *Tested using the liquid component (excluding the propellant).

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): 125* (TEST METHOD): Closed cup FLAME EXTENSION: N/D

FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: 12.7 LOWER: 1.9 NFPA 30B Rating: N/D

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: Exposure to temperature above 120°F may cause bursting.

V - Reactivity Data

STABILITY: Stable

INCOMPATIBILITY: Strong oxidizers and acids. **CONDITIONS TO AVOID:** High temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None

VI - Health Hazard Data

ROUTES OF ENTRY INHALATION: X EYE CONTACT: X SKIN CONTACT: X INGESTION: X INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None EFFECTS OF OVEREXPOSURE

IF IN EYES: Will cause redness and burning sensation.

IF ON SKIN: Will cause deffating of skin. Effects are reversible.

IF SWALLOWED: Aspiration hazard if swallowed.

IF INHALED: Irritation of respiratory tract, headache, dizziness, nausea and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.

IF ON SKIN: Flush with large quantities of water. Remove contaminated clothing and launder separately before reuse. If irritation persists, obtain medical attention.

IF SWALLOWED: Contact physician or poison control center immediately. Do not induce vomiting. **IF INHALED:** Remove person to fresh air. If irritation persists, give oxygen. Get medical attention.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area and remove all sources of ignition. Contain spill. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal. WASTE DISPOSAL METHOD: Consult local environmental authorities. Dispose of cans in non-incinerated trash only.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.

VENTILATION LOCAL: Recommended MECHANICAL: Not required

PROTECTIVE GLOVES: None required if spraying.

EYE PROTECTION: Safety glasses or chemical splash goggles.

OTHER PROTECTIVE EQUIPMENT: Long sleeves and long pants.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place away from heat or open flame. Do not expose to direct sunlight or store at temperatures above 120°F.

OTHER PRECAUTIONS: Keep out of reach of children. Do not puncture or incinerate container.

IX - Transportation Information (ground transportation only)

DOT ID NUMBER: None **DOT PROPER SHIPPING NAME:** Consumer Commodity

DOT CLASS: ORM-D **DOT PACKING GROUP**: None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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