

# 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					
<b>NFPA Rating:</b> Health-1; Flammability-1; Reactivity-0; Special-0 <b>Manufactured For:</b> Hillyard Industries, Inc. <b>Address:</b> 302 N. 4 <sup>th</sup> Street <b>Address:</b> St. Joseph, MO 64501			<b>HMIS Rating:</b> Health-1; Flammability-1; Reactivity-0; Personal Protection-B <b>DOT Hazard Classification:</b> ORM-D <b>Identity</b> (trade name as used on label): <div style="text-align: center;"><b>I-Force Battery Cleaner &amp; Protector</b> (# HIL0110454)</div>		
<b>Phone:</b> (816)-233-1321 ext. 8285 or http://www.hillyard.com			<b>MSDS Number:</b> A00710 <b>Revision:</b> 7		
<b>EMERGENCY RESPONSE NUMBER:</b> Chemtrec 1-800-424-9300 <b>NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA</b>			<b>Date Prepared:</b> 10/06/93 <b>Prepared By:</b> ES/KD <b>Information Calls:</b> (770)422-2071		
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
<b>COMPONENTS-CHEMICAL NAMES AND COMMON NAMES</b> (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)
ISOBUTANE / PROPANE BLEND		75-28-5	No	800	800
		74-98-6	No	1000	1000
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS					
<b>Boiling Point:</b> N/A			<b>Specific Gravity</b> (H <sub>2</sub> O=1): Concentrate Only = 1.040		
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): Max. 60			<b>Vapor Pressure</b> (Non-Aerosols)(mm Hg and Temperature): N/A		
<b>Vapor Density</b> (Air = 1): N/E			<b>Evaporation Rate</b> ( = 1): N/E		
<b>Solubility in Water:</b> Complete			<b>Water Reactive:</b> No		
<b>Appearance and Odor:</b> Bright red foamy spray with slight amine odor.					
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA					
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) <b>NON-FLAMMABLE</b>		<b>Auto Ignition Temperature</b> N/E		<b>Flammability Limits in Air by % in Volume:</b> % LEL: N/E      % UEL: N/E	
<b>FLASH POINT AND METHOD USED</b> (non-aerosols): N/A <b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Self-contained breathing apparatus.		<b>EXTINGUISHER MEDIA:</b> Foam, dry chemical, carbon dioxide.			
<b>Unusual Fire &amp; Explosion Hazards:</b> Do not expose aerosols to temperatures above 130°F or the container may rupture.					
SECTION 4 - REACTIVITY HAZARD DATA					
<b>STABILITY</b> [ X ] STABLE [ ] UNSTABLE		<b>HAZARDOUS POLYMERIZATION</b> [ ] WILL [ X ] WILL NOT OCCUR			
<b>Incompatibility</b> (Mat. to avoid): Acids & strong oxidizers.		<b>Conditions to Avoid:</b> Open flame, heat, sparks.			
<b>Hazardous Decomposition Products:</b> CO, CO <sub>2</sub> & oxides of nitrogen.					
SECTION 5 - HEALTH HAZARD DATA					
<b>PRIMARY ROUTES OF ENTRY:</b> [ X ] INHALATION [ ] INGESTION [ ] SKIN ABSORPTION [ ] EYE [ ] NOT HAZARDOUS					
ACUTE EFFECTS					
<b>Inhalation:</b> Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness.					
<b>Eye Contact:</b> Possible mild irritation.			<b>Skin Contact:</b> Mild irritant.		
<b>Ingestion:</b> Possible chemical pneumonitis if aspirated into lungs.					
<b>CHRONIC EFFECTS:</b> None known.					
<b>Medical Conditions Generally Aggravated by Exposure:</b> May aggravate existing eye, skin, or upper respiratory conditions.					
EMERGENCY FIRST AID PROCEDURES					
<b>Eye Contact:</b> Flush with water for 15 minutes. If irritated, seek medical attention.					
<b>Skin Contact:</b> Wash with soap and water. If irritated, seek medical attention.					
<b>Inhalation:</b> Remove to fresh air. Resuscitate if necessary. Get medical attention.					
<b>Ingestion:</b> DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention.					
SECTION 6 - CONTROL AND PROTECTIVE MEASURES					
<b>Respiratory Protection (specify type):</b> If vapor concentration exceeds TLV, use respirator approved by U.S. Bureau of Mines for organic vapor.					
<b>Protective Gloves:</b> Rubber, if skin easily irritated.			<b>Eye Protection:</b> Safety glasses recommended.		
<b>Ventilation Requirements:</b> Adequate ventilation to keep vapor concentration below TLV.					
<b>Other Protective Clothing &amp; Equipment:</b> None					
<b>Hygienic Work Practices:</b> Wash with soap and water before handling food. Remove contaminated clothing.					
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE					
<b>Steps To Be Taken If Material Is Spilled Or Released:</b> Absorb with suitable medium. Incinerate or landfill according to local, state or federal regulations.					
<b>Waste Disposal Methods:</b> Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.					
<b>Precautions To Be Taken In Handling &amp; Storage:</b> Do not puncture or incinerate containers. Do not store at temperatures above 130°F.					
<b>Other Precautions &amp;/or Special Hazards:</b> 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

**THIS MSDS IS CURRENT AS OF January 10, 2000.** The DATE PREPARED section is the original date assembled and remains current until a change is necessary. This is tracked internally at AMREP by these date codes and therefore must remain as the originating date.