## **MATERIAL SAFETY DATA SHEET**

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

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NEPA Rating: Health-2: F					lity-3. Reacti	vity -0. Pers	onal Protection-R		
NFPA Rating: Health-2; Flammability-3; Reactivity-0; Special Manufactured For: Hillyard Industries, Inc.			HMIS Rating: Health-2; Flammability-3; Reactivity-0; Personal Protection-B DOT Hazard Classification: ORM-D						
Address: 302 N. 4 <sup>th</sup> Street			Identity (trade name as used on label):						
					I-Force Contact & Circuit Cleaner				
rtudross.	G. 6666p.,, 6 1667				(# HIL0110954)				
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.com			MSDS Number: A00368 Revision-5						
, ,			Date Prepared: 12-07-01 Prepared By: CH/TR						
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA			Information Calls: (770)422-2071						
	SECTION 1 - MATERIA	L IDENTII							
	. NAMES AND COMMON NAMES % or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **		
ISOPROPANOL			67-63-0	No	400	400	d d		
2-METHYLPENTANE			107-83-5	No	500	500	d		
3-METHYLPENTANE			96-14-0	No	500	500	d		
2,3 DIMETHYLBUTANE			79-29-8	No	500	500	d		
2,2 DIMETHYLBUTANE			75-83-2	No	500	500	d		
CARBON DIOXIDE			124-38-9	No	5000	5000	d		
n-HEXANE			110-54-3	Yes	5000	5000	d		
II-TIEAANE			110-54-3	res	50	50	u		
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS									
Boiling Point: N/A Sp			Specific Gravity (H2O=1): Concentrate Only = 0.667						
,			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A						
7			Evaporation Rate ( = 1): N/E						
Solubility in Water:None			ater Reactive: No						
Appearance and Odor: Clear forceful spray with aliphatic solvent odor.  SECTION 3 - FIRE AND EXPLOSION HAZARD DATA									
ELAMMADILITY on north					مناندا الماد	: A: b. ( 0 /	in Malura a		
	ISA FLAME PROJECTION TEST	Auto	gnition Temperature N/E		nability Limits	-			
(aerosols) EXTREMELY FLAMMABLE  FLASH POINT AND METHOD USED (non-aerosols): N/A			N/E % LEL: N/E % UEL: N/E  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									
			HAZARDOUS POLYMERIZATION [ ] WILL [ X ] WILL NOT OCCUR						
Incompatibility (Mat. to avoid): Strong oxidizing agents.  Conditions to Avoid: Open flame, welding arcs, heat, sparks.									
	sition Products: Carbon dioxide, car			<u> </u>	,	<i>,</i>	<i>,</i> 1		
SECTION 5 - HEALTH HAZARD DATA									
PRIMARY ROUTES OF ENTRY: [X]INHALATION []INGESTION [X]SKIN ABSORPTION []EYE []NOT HAZARDOUS									
ACUTE EFFECTS			• •		<u>, , , , , , , , , , , , , , , , , , , </u>	•			
	nhalation of vapors can cause nasal &	k respirato	ry irritation, dizziness,	weakne	ss, nausea,	headache,	possible		
unconsciousness or asp	•		kin Contact: Clicht in	ritation di	io to dofottin	a of alsia			
Eye Contact: Slight irritation	Skin Contact: Slight irritation due to defatting of skin.								
Ingestion: Irritation.									
<b>CHRONIC EFFECTS:</b> (Effects due to excessive exposure to the raw materials of this mixture) Excessive inhalation may result in central nervous system effects.									
Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.									
EMERGENCY FIRST AID PROCEDURES  Eve Contact: Flush with water for 15 minutes. If irritated cook medical attention									
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									
-	on (specify type): If vapor concentra				ed by NIOS	H approved	for organic		
vapor.  Protective Gloves: Neoprene 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.									
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.									