Material Safety Data Sheet U.S. Department of Labor May be used to comply with Occupation Safety and Health Administration OSHA's Hazard Communication Standard (Non-Mandatory Form) Form Approved 29 CFR 1910.1200. Standard must be consulted for specific requirements OMB No. 1218-0072 IDENTITY Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that. **BIO-KLEEN ALL PURPOSE CLEANER** (120375) Section I Manufactured For: **Emergency Telephone Number** Beaver Research Company 1-800-255-3924 (Chem-Tel) Address (Number, Street, City, State, and ZIP Code) Telephone Number For Information 3700 E. Kilgore Road, Portage, MI 49002 269-382-0133 PRODUCT HAZARD RATINGS: Health: 1 **Date Prepared** 4=Extreme 1=Slight 2 Fire: 04/22/99 3=Serious 0=Minimal Reactivity: 0 Signature of Preparer (optional) 2=Moderate Protective *B (HMIG) Equipment: Section II - Hazardous Ingredients/Identity Information Hazardous Components (Specific Chemical **ACGIH Exposure Limits** % (optional) **OSHA PEL** Identity; Common Name(s)) CAS No. TLV/TWA (LD50-Oral Rat) Citrus Terpenes 5989-27-5 NA NA 4400mg/kg 1-5 99-85-4 586-62-9 Liquefied petroleum Gas 68476-85-7 1000ppm 1000ppm NA 10.0 Unidentified ingredients are not considered hazardous under the Federal Hazard Communication Standard. Components Listed As A Suspected Carcinogen: None Section III - Physical/Chemical Characteristics **Boiling Point** Specific Gravity (H₂O = 1) <1 Vapor Pressure (psig) 117@130°F Melting Point NA Vapor Density (AIR = 1) >1 **Evaporation Rate** <1 (Butyl Acetate = 1) Total VOC: 7.75% Solubility in Water pΗ NA Appreciable Appearance and Odor Clear water, white liquid; citrus aroma. Section IV - Fire and Explosion Hazard Data Flash Point (Method Used) Flammable Limits LEL UEL Non-flammable 1.8 9.2 **Extinguishing Media** Carbon dioxide, foam and/or dry chemical may be used. Special Fire Fighting Procedures Containers should be cooled with water to prevent vapor pressure build up. Use equipment or shielding, as required, to protect personnel from bursting, rupturing or venting containers. Unusual Fire and Explosion Hazards At elevated temperatures (over 54°C-130°F) containers exposed to direct flame or heat contact should be cooled with water to prevent weakening of container structure. Section V - Reactivity Data Stability Unstable Conditions to NA Avoid Stable Χ Incompatibility (Materials to Avoid) Strong oxidizing agents. Hazardous Decomposition or Byproducts NA Hazardous May Occur Conditions to Do not store above 54C-130F. Keep away from heat, direct sunlight, **Avoid** Will Not Occur flames or sparks. Dropping of containers may cause bursting. Polymerization

Section VI - Health Hazard Data				
Route(s) of Entry:	Inhalation?	Skin?	Ingestion?	
	Yes	Yes	Yes	
Health Hazards (Acute and Chro	nic)			
NA				
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?	
	No	No	No	

Signs and Symptoms of Exposure

Inhalation may cause dizziness, drowsiness and throat irritation. Eye contact may be irritating. Skin contact may cause slight redness.

Medical Conditions Generally Aggravated by Exposure

Preexisting skin or eye disorders and upper respiratory inflammation may be aggravated by exposure to this product.

Emergency and First Aid Procedure

Eye Contact:: Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention if irritation persists. **Skin Contact**: Remove contaminated clothing. Flush skin with water, follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. **Inhalation**: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention. **Ingestion**: Get medical attention.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Remove all sources of ignition and ventilate area. Soak up spill with an inert absorbent and place into a designated disposal container. Consult local regulatory agency for proper disposition of material.

Waste Disposal Method

Do not puncture or incinerate containers. When contents are depleted continue to depress button until all gas is expelled. Dispose of container in accordance with local, state, and federal regulations.

Precautions to be Taken in Handling and Storage

Avoid breathing vapor. Keep away from heat and flame. Use with adequate ventilation. Do not puncture or incinerate containers. Do not expose to direct sunlight or store at temperatures above 130°F (54°C). Store as Level 1 Aerosol (NFPA 30B).

Other Precautions

Please read and follow the directions on the product label; they are your best guide to using this product in the most effective way, and give the necessary safety precautions to protect your health using this product in the most effective way, and give the necessary safety precautions to protect your health.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

None required if good ventilation is maintained. If exposure exceeds occupational exposure limits (Sec.II), use NIOSH approved respirator to prevent overexposure.

Ventilation	Local Exhaust	adequate		Special	NA
	Mechanical(General)	optional		Other	NA
Protective Gloves		Eye Pr	Eye Protection		
Chemical resistant gloves*.		Chem	Chemical safety glasses are recommended*.		

Other Protective Clothing or Equipment

Wear impervious clothing to prevent skin contact.

Work/Hygienic Practices

Ensure strict sanitary conditions are conformed to when working around chemicals. Protective clothing and equipment should be in accordance with 29 CFR 1910.132 and CFR 1910.133.

NG-Negligible NA-Not Applicable NE-Not Established UN-Unavailable ND-Not Determined While the information set fourth herein is believed to be accurate as of the date hereof, Beaver Research Company makes no warranty or guarantee, express or implied, and disclaims all liability arising out of the use of this information.