

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA'S Hazard Communication Standard,
29 CFR 1910.1200. Standard must be consulted for specific requirements.

Identity (As Used on Label and List): ASTRON CLEANER

Section I

Manufacturer & Distributor Name and Addresses: MFG: J. MORITA MFG. CORP., 680 Higashihama, Minami-cho, Fushimi-ku, Kyoto 612-8533 JAPAN DIST: J. MORITA USA, INC., 9 Mason, Irvine, CA92618, U. S. A.	Emergency Telephone Number: (949) 581-9600
	Date Prepared: November 18, 2004

Section II - Hazardous Ingredients/Identity Information

Hazardous Components:	C.A.S.No.	OSHA PEL	ACGIH TLV
Ethanol	64-17-5	TWA 1000 ppm	N/E
Propane	74-98-6	TWA 1000 ppm	N/E
Butane	106-97-8	TWA 800 ppm	N/E

Section III - Physical/Chemical Characteristics

Boiling Point : -42.07°C Vapor Pressure (mmHg) : 8.47 kg/cm ² (at 20°C) Solubility in Water : Slightly soluble Appearance and Color : Colorless	Specific Gravity : N/E Melting Point : -114.15°C Evaporation Rate : N/E
---	--

Section IV - Fire and Explosion Hazard Data

Flash Point : -104.4°C	Flammable Limit	LEL : 1.8 vol%	UEL : 9.5 vol%
Extinguishing Media : CO ₂ , Foam, Dry chemical, Carbon Dioxide, Powder Glass A-O.			
Special Fire Fighting Procedures : Same as for Propane/Butane. During emergency conditions, overexposure to thermal decomposition may cause health hazard.			
Unusual Fire/Explosion Hazards : Dangerous when exposed to high heat or flame			

Section V - Reactivity Data

Stability	Unstable	X	Condition to avoid: High heat or flame
	Stable		
Incompatibility (Materials to Avoid): Strong oxidizer (Chlorine, Fluorine, Bromine)			
Hazardous Decomposition or Byproducts: N/E			
Hazardous Polymerization	May Occur	X	
	Will Not Occur		

ABBREVIATIONS: N/E - Not Established N/A - Not Applicable

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation?: YES Skin?: YES Ingestion?: YES		
Health Hazards (Acute and Chronic): No danger under normal use Inhalation: Long term inhalation affects respiration. If high concentration is inhaled, toxic symptoms will develop. Ingestion : Toxic symptoms		
Carcinogenicity : NTP?: N/A IARC Monographs?: N/A OSHA Regulated?: N/A		
Signs and Symptoms of Exposure: Eye Contact : Irritating Skin Contact : Slightly irritating Direct acute skin exposure may cause frostbite. Inhalation, Ingestion : Headache, Dizziness, Disorientation, Painning		
Medical Conditions Generally Aggravated by Exposure: NONE		
Emergency and First Aid Procedure: Eye Contact : Wash with water. See doctor if itchiness results. Skin Contact : Treat as frostbite. See doctor if itchiness results. Inhalation : Remove to fresh air, administer oxygen. Resuscitate if breathing stops. Seek medical treatment. Ingestion : Rinse mouth with water. Seek medical treatment. Mucosal Contact: N/E		

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Generally, ventilate area and remove all ignition source. Wipe up with paper towel and dispose in a suitable container.
Waste Disposal Method: Do not evaporate in liquid condition. When circumstances compel, open container and allow to evaporate in open air.
Precautions to be Taken in Handling and Storing: Protect from heat and sunlight. Avoid open flames, temperature greater than 40°C and powerful and oxidizing agents.
Other Precautions: Do not incinerate can after use. Use according to directions.

Section VIII - Control Measures

Respiratory Protection (Specify Type): None is needed under normal use.		
Ventilation	Local Exhaust Mechanical: None needed	Special Other: None needed
	Mechanical: Local building code for ventilation.	
Protective Gloves: None is needed under normal use.		
Eye Protection: None is needed under normal use.		
Other Protective Clothing or Equipment: None is needed under normal use.		
Work/Hygienic Practices: None is needed.		

ABBREVIATIONS: N/E - Not Established N/A - Not Applicable

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.