

ARI When Quality Counts

PO Box 510
Orchard Hill, GA 30266

Date: January 2009

MATERIAL SAFETY DATA SHEET

Section I – Product Identification

MANUFACTURER'S NAME:	ARI	EMERGENCY PHONE #:	800- 241-5064
ADDRESS:	PO BOX 510, ORCHARD HILL, GA 30266		
TRADE NAME:	COLD SPRAY		
SYNONYMS:	AEROSOL COLD SPRAY		

Section II – Material Analysis/Active Ingredients

Component or Material Chemical Name	% of Mixture	CAS #	TLV
Propane	26%	74-98-6	1000 ppm
Isobutane	30%	75-28-5	Not established
N-Butane	44%	106-97-8	800 ppm

Section III – Physical Data

Boiling Point	-43.7°F
Solubility in H2O % by weight	Less than 0.1% by weight @ 70°F
Specific Gravity H2O = 1	0.5581
Vapor pressure in can PSI at 70°F	Approximately 46psig @ 70°F
% Volatiles by Volume	100%
PH	N/A
Appearance and Odor	Clear colorless, essentially odorless

Hazard Ranking

Hazard Ranking	NFPA Hazard Class	HMIS Hazard Class
0 = least	Health Hazard = 1	Health Hazard = 1
1 = slight	Flammability = 4	Flammability = 4
2 = moderate	Reactivity = 0	Reactivity = 0
3 = high		
4 = extreme		

Section IV – Fire and Explosion Data

Flash Point (Closed cup)	– 156°F
Flammable Explosive Limits (% volume in air)	Lower: 1.8 Upper: 9.5
Extinguishing Methods	Dry chemical or CO2 after spray has been stopped
Special fire and Explosion Procedures	Cool containers with water if exposed to heat or flame with water, move containers away from fire area if this can be done without further risk.
Unusual Fire and Explosion Hazard	Vapor is heavier than air and may travel a long distance to a source of ignition and flash back. Containers may explode. Material is extremely flammable.

Section V – Health Hazard Information

HEALTH HAZARD DATA ROUTES OF EXPOSURE

Inhalation	This product is asphyxiate and may exhibit anesthetic properties at very high concentrations. Initial symptoms of exposure at these concentrations are disorientation, excitation, headache, and nausea. Continued exposure may result in unconsciousness, coma, and possible death.
Skin Contact	Prolonged contact with the liquefied gas or the gas under pressure may cause burning.
Eye Contact	The gas phase is not expected to cause eye irritation. However, the liquid can cause frostbite and burns. This hazard evaluation is based on the data from similar materials.
Ingestion	This material is a gas under normal atmospheric conditions.
Effects of Overexposure	Unconsciousness, coma, and death due to suffocation.

EMERGENCY AND FIRST AID PROCEDURES

Eye	Flush the eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Seek immediate medical attention.
Skin	Treat burned or frostbitten skin by flushing or immersing affected areas in lukewarm water. If skin is not burned, keep warm and stimulate circulation with massage. Seek medical aid.
Ingestion	N/A
Inhalation	Remove victim from exposure. If not breathing or breathing is difficult, administer artificial respiration and or oxygen as indicated. Seek medical aid.

Section VI – Reactivity Data

Condition contributing to instability	Material is stable.
Incompatibility	Avoid contact with strong oxidizing agents such as chlorine, permanganates, and dichromates.
Hazardous decomposition products	Oxides of carbon.
Conditions contributing to hazardous polymerization	Will not occur.

Section VII – Spill or Leak Procedures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Steps to be taken if released or spilled	Remove or eliminate all sources of ignition. Establish ventilation to keep atmospheric concentrations below explosive limits.
Neutralizing chemical	N/A
Waste disposal method	Dispose of in accordance with state, local and federal regulations.

Section VIII – Industrial Hygiene Control Measures

Ventilation Requirements:	Good mechanical ventilation may be adequate for maintaining airborne concentrations below established exposure limits. If general ventilation is inadequate, supplemental local exhaust may be required.
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SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

Respiratory (specific in detail)	If ventilation is inadequate, or the airborne concentration goes above the established exposure limit, wear a respirator or gas mask with appropriate cartridges and canisters. (NIOSH approved.)
Eye	Use protective face shield and chemical goggles where contact with product is possible.
Gloves	Wear thermally insulated gloves when handling.
Other Clothing and Equipment	Self-contained respirators should be available for non routine and emergency situations.

Section IX – Special Precautions

Precautionary Statements	Containers should not be dropped. Install protective caps for shipment and storage.
Other Handling and Storage Requirements	Do not store at temperatures above 120°F. Store in well-ventilated areas, away from heat, direct sunlight, and sources of ignition. Keep away from oxidizing agents.
Department of Transportation Information PROPER SHIPPING NAME: HAZARD CLASS:	CONSUMER COMMODITY ORM-D
Prepared by: ARI	DATE: January 2009