

### Section 1 - Manufacturer Information

Manufacturer/Distributor: IMS Company  
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Chagrin Falls, OH 44023-5296  
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Trade Names .....Silicone Mold Release, with following NAMES and DESCRIPTIONS

Part Number	Name/Description	Replaces
110047	Silicone Mist Spray Can	AER1-S310
113646	3% Silicone Spray – 9.25 oz	AER1-S312-A
113653	3% Silicone Spray – 12 oz	AER1-S316-A
113659	1% Silicone Mist	AER1-S116-A
113716	Gold Label Silicone Spray	AER1-SG512-A
113717	15% Silicone Spray	AER1-S1512-A

#### Hazardous Material Information System

Health .....1\*      Flammability.....4      Reactivity .....1      Protection .....X

\* Chronic (accumulates)

0 Normal use Material	0 Will not Burn	0 Stable	X = Consult the MSDS and your supervisor for your special workplace need
1 Slight Hazard (temporary)	1 Possible to Burn	1 Unstable if Heated	
2 Health affected (lengthy)	2 Burns if Heated	2 Violent Chemical Change	
3 Extreme Danger	3 Easily Burns	3 Shock and Heat Sensitive	
4 Severe or Fatal	4 Very easy to Burn	4 May Explode	

NOTE: The HMIS may be not enough hazard information for this chemical in all workplaces. The HMIS system requires employee training about the system and about information in this MSDS.

### Section 2 - Hazardous Ingredients

Chemical/Common Name	CAS-Number	%	PEL-OSHA	TLV-ACGIH
1,1-Difluoroethane (HFC-152A)	75-37-6	35 to 55	(4) (1)	(4) (1)
Dimethyl Ether	115-10-6	30 to 50	(4) (2)	(4) (2)
Aliphatic Petroleum Distillate <sup>(3)</sup> (not used in 113716)	64742-89-8	0.1 to 15	(4)	(4)
Release Agent-Silicone	63148-62-9	0.1 to 33	(4)	(4)

(1) Manufacturer suggested allowable exposure limit (AEL) = 1000 ppm.

(2) Other exposure limits for Dimethyl Ether: American Industrial Hygiene Association (AIHA) Workplace Environmental Exposure Limit (WEEL) = 500 ppm.

(3) NOTICE: This ingredient may contain trace contaminations of a chemical known to the State of California to cause cancer, birth defect, or other reproductive harm.

(4) None Established

Does this product contain carcinogens known to NTP, IARC, or OSHA? No.

### Section 3 - Health Hazard Data

**HEALTH EFFECTS** - (Acute and Chronic):

**Ingestion:** Because of the aerosol nature of the product, ingestion is unlikely.

**Inhalation:** HARMFUL IF INHALED. Overexposure can cause CNS depression with anaesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness. Higher exposures to vapors may cause temporary alteration of the heart's electrical activity, with irregular pulse, palpitations, or inadequate circulation; or fatality from gross overexposure.

**Eye:** Irritation. NOTE: Direct contact with spray can result in frostbite.

**Skin:** Irritation, defatting, dermatitis. NOTE: Direct contact with spray can result in frostbite.

**PRIMARY ROUTES OF ENTRY** Inhalation, Skin

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE** Exposure may aggravate diseases of the central nervous system, heart rhythm, or other cardiovascular diseases, or pulmonary diseases. If a person has one or more of these problems, consult medical personnel to determine what steps should be taken.

**EMERGENCY FIRST AID PROCEDURES**

**Eye Contact:** Flush thoroughly with water, consult a physician.

**Skin Contact:** Do not apply directly to skin! If accidentally discharged onto skin, wash with soap and warm water. Launder contaminated clothes before re-use.

**Inhalation:** Remove to fresh air. Keep person warm and quiet. Apply artificial respiration if breathing has stopped. If breathing is difficult, give oxygen. **\*\*Get Medical Help at once\*\***

**Ingestion:** An unlikely route of entry. However, if ingested, **\*\*Get Medical Help at once\*\*** Aspiration into lungs can cause chemical pneumonia. **\*\*Induce vomiting ONLY IF advised by physician.\*\***

**\*\*Note to Medical Personnel\*\***

Because of increased risk of disturbances of cardiac rhythm (eliciting cardiac dysrhythmias), Catecholamine drugs (Epinephrine, Adrenaline) should be used only with special caution and only in situations of emergency life support and only as a last resort.

**Section 4 - Chemical Data**

Boiling Point (F).....	N/A	Specific Gravity (Water = 1).....	< 1
Vapor Pressure (PSIG).....	60 ± 10	Percent Volatile by Volume (%).....	> 95
Vapor Density (Air = 1).....	> 1	Evaporation Rate (Ether).....	Faster
Solubility in Water.....	Slight		

**Appearance and Odor Information:**

Clear mist with slight ether odor as dispensed from the aerosol package. CONTENTS UNDER PRESSURE

**Section 5 - Physical Hazard Data**

Flash Point (estimated)..... < 0° F      Flammable Limits : LEL = 1%      UEL = 27%

EXTREMELY FLAMMABLE LIQUID AND VAPOR      VAPOR MAY CAUSE FLASH FIRE

**Extinguishing Media** Carbon Dioxide, Foam, Dry Chemical, Water Fog. Using water to cool exposed containers

may be useful.

**Special Fire Fighting Procedures** Firefighters should wear self-contained breathing apparatus (SCBA) with full-face piece operated in positive pressure mode. See decomposition products.

At temperatures over 120° F, aerosol containers may burst, vent, or rupture. Use equipment or shielding to protect personnel against bursting, rupturing, or venting containers. Cooling with water streams may be helpful.

**Unusual Fire and Explosion Hazards** Static-electric sparks have been known to ignite accumulated vapors. Use caution where static-electric sparks can occur, such as around spinnerettes and extrusion dies. Ensure enough ventilation to avoid vapor accumulation, especially when spraying where there is an enclosure that would otherwise let vapors accumulate.

**Incompatibility (Materials to Avoid)** Strong oxidizers, strong caustics, reactive metals such as sodium, potassium, zinc, magnesium, aluminum.

**Hazardous Decomposition Products** Silicon oxide, carbon monoxide, carbon dioxide, hydrofluoric acid, fluorine, formaldehyde, and carbonyl fluoride would be expected.

### NOTICE

This product contains methylpolysiloxanes, which when heated to temperatures above 300°F (150°C), in the presence of air, can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, eye and throat irritant, and an acute toxicant. Vapors irritate eyes, nose, and throat. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA permissible exposure limit for formaldehyde. (Note Product does not contain formaldehyde).

**Will Hazardous Polymerization Occur?** No

**Conditions to Avoid for Polymerization:** N/A

**Is the Product Stable?** Yes

**Conditions to Avoid for Stability** Avoid heat sufficient to burst container (see special fire fighting procedure above) and spraying into flame or onto red-hot surfaces, which may cause decomposition.

## Section 6 - Spill or Leak Procedures

**Steps to be Taken in Case Material is Released or Spilled** Remove sources of ignition. Ventilate area to reduce concentration of the components below their exposure limits. Use protective equipment consistent with the situation. Pick up the spill on absorbent material; store in closed containers for proper disposal. Remove residue to prevent a slippery condition developing.

**Waste Disposal Methods** Consult Federal, State and Local regulations. Do not puncture or burn containers. Give empty, leaking, or full containers to a disposal service equipped to handle and dispose of aerosol (pressurized) containers.

## Section 7 - Exposure Control Information

### Ventilation

General or local exhaust, or mechanical or special ventilation to maintain below exposure limits.

Also maintain enough ventilation to prevent fire/flash hazard from local accumulation of vapors, especially near sources of high heat, electric arcs or static-electric sparks.

### **Respiratory Protection**

Generally not required if sufficient ventilation is provided. If the exposure limits of the product or any of its components are exceeded, an approved organic vapor mask should be used (consult your safety equipment supplier).

### **Protective Gloves**

Where prolonged or repeated contact with the spray mist or the deposited product is likely, the use of impervious gloves is indicated.

### **Other Protective Equipment**

If contact with the spray is likely, eye protection is recommended. Chemical Monogoggles or safety glasses with side shields and a face shield will provide protection in most situations.

### **Other Engineering Controls**

To determine exposure levels, monitoring should be performed

### **Work Practices**

Do not use in confined or closed space. We consider it good practice to limit exposure to any mold release mist to the OSHA exposure limit of 5 mg/m<sup>3</sup> TWA for oil mist.

### **Hygienic Practices**

Wash thoroughly before eating or smoking after using this or any chemical product.

## **Section 8 - Special Precautions**

### **Precautions to be Taken in Handling and Storage**

Store in cool, dry area out of direct sunlight. Do not puncture, burn, or store above 120° F.

### **Maintenance Precautions**

Do not remove or deface label.

### **Additional Comments**

The aerosol package, when tested for flame projection, had a projection less than 12 inches and no burn-back toward the nozzle.

Accumulated overspray could make floors slippery. Use necessary housekeeping and work rules to prevent slipping.

**CAUTION Intentional misuse of this chemical product, as with any industrial chemical, in contact with the body can be harmful or fatal. This includes such things as deliberately breathing, placing in mouth, swallowing, placing on skin, or any other body contact, or repeated, or continuous contact.**

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