

Section 1 – MANUFACTURER INFORMATION

| | | | |
|---------------------|--|--|--|
| Manufacturer | IMS Company 10373 Stafford Road Chagrin Falls, OH 44023-5296 WEB imscompany.com | Emergency Phone Prepared by Prepared/Revised E-mail | 800-424-9300 Product Safety Advisor May 22, 2007 sales@imscompany.com |
|---------------------|--|--|--|

| | | | | | |
|------------|---------------------------|---------------|------------|--------------------|---------------|
| P/N | Description | Old PN | P/N | Description | Old PN |
| 113719 | Blue Label Silicone Spray | AER1-SB412-A | | | |

Product Use: To help plastic parts release from a metal mold in processes such as injection molding.

Hazardous Material Information System

| | | | |
|---|---------------------------------------|---|---|
| Health 1 | Flammability 4 | Reactivity 1 | Protection X |
| 0 Normal use Material 1 Slight Hazard (temporary) | 0 Will Not Burn 1 Possible to Burn | 0 Stable 1 Unstable if Heated | X = Consult the MSDS and your supervisor for your special workplace need |
| 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 Easily Burns | 4 May Explode | |

NOTE The HMIS may not be 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 – INGREDIENTS INFORMATION

| Chemical/Common Name | CAS-Number | % | OSHA PEL ppm | OSHA STEL ppm | ACGIH TLV ppm | ACGIH STEL ppm | OTHER ppm |
|--------------------------------|------------|-----------|--------------------|---------------------|---------------------|----------------------|------------------------------------|
| 1,1-Difluoroethane (HFC-152a) | 75-37-6 | 35 to 55 | NE | NE | NE | NE | 1000 ⁽¹⁾ |
| Dimethyl Ether | 115-10-6 | 35 to 55 | NE | NE | NE | NE | 1000 ⁽¹⁾ |
| Aliphatic Petroleum Distillate | 64742-89-8 | 0.1 to 15 | NE | NE | 300 | NE | |
| Dimethylpolysiloxane | 63148-62-9 | 1 to 10 | NE ⁽²⁾ | NE ⁽²⁾ | NE ⁽²⁾ | NE ⁽²⁾ | ⁽²⁾ 5 mg/m ³ |
| Aminofunctional Silicone | 67923-07-3 | 0.1 to 10 | NE ⁽²⁾ | NE ⁽²⁾ | NE ⁽²⁾ | NE ⁽²⁾ | ⁽²⁾ 5 mg/m ³ |
| Mineral Spirits - 66 | 8052-41-3 | 0.1 to 10 | 100 ppm | 100 ppm | | | |

⁽¹⁾ Manufacturer's suggested maximum exposure limit (AEL) and WEEL (AIHA) is 1000 ppm

⁽²⁾ In mist applications we consider it good practice to observe a limit of less than 5 mg/m³ TWA.

Section 3 – HAZARDS IDENTIFICATION

This product contains extremely flammable gases, which are heavier than air and can collect in low or enclosed areas. Acute and chronic inhalation hazard. Pressurized containers. Causes slippery floors, which can cause slips and falls.

Emergency Overview: Colorless to white aerosol. Toxic fumes released in fire situations. Harmful if inhaled. Can cause death if too much is breathed.

HEALTH EFFECTS - Acute and Chronic

Inhalation: HARMFUL IF INHALED. Central Nervous System (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. May cause temporary lung irritation effects.

Section 6 – ACCIDENTAL RELEASE MEASURES

Remove all 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; store in closed containers for proper disposal. Remove residue to prevent a slippery condition developing.

Section 7 – HANDLING AND STORAGE

Precautions to be Taken in Handling and Storage: Store all industrial chemicals away from food and beverages. Store below 120°F in cool, dry area, out of direct sunlight and away from strong oxidizers. Do not puncture or burn.

Maintenance Precautions: Do not remove or deface label.

Other Precautions: Flammable vapors are heavier than air and will collect in low areas. Read and follow directions and cautions on the container label, and any accompanying literature. Product can cause slippery surfaces. Clean up spills promptly. Monitor floors for accumulation in overspray area; clean as needed.

Section 8 – EXPOSURE CONTROLS – PERSONAL PROTECTION

General: If clothing is likely to be contaminated, wear polymer-coated apron or other body covering.

Ventilation: Local exhaust, or mechanical or special ventilation to maintain exposure limits.

Respiratory Protection: Generally not required if sufficient local exhaust 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: If prolonged or repeated contact is likely, wear solvent-resistant gloves.

Other Protective Equipment: If contact with the spray is likely, wear eye protection. Monogoggles or safety glasses with side shields and a face shield will provide protection in most situations. Do not wear contact lenses.

Other Engineering Controls: To determine exposure levels, monitoring should be performed. Eyewash station should be available. Overspray is slippery and is difficult to fully remove from floors. Avoid overspray.

Work Practices: Do not use in confined or closed space. Ventilation should maintain the concentration of the product and its components below their exposure limits. We consider it good practice to limit exposure to less than the OSHA 5 mg/m³ TWA oil mist limit.

Hygienic Practices: Avoid contact with skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands before eating, drinking, or using restroom after using this or any chemical product.

NOTE

This product contains methylpolysiloxanes, which can generate formaldehyde at about 300° F (150° C) and above, in atmospheres that contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|--------------------------------------|-----------------------------------|--------------------------------|
| Specific Gravity (Water = 1) ... < 1 | Vapor Pressure (PSIG).....55 ± 10 | Vapor Density (Air = 1).... >1 |
| Evaporation Rate (Ether)..... Faster | Solubility in Water Slight | % Volatile >80% |
| VOC by Volume..... 61 | % VOC by Weight..... 54 | |

Appearance and Odor Information: Clear to white mist with slight ethereal odor as dispensed from the aerosol package.

Section 10 – STABILITY AND REACTIVITY

Incompatibility (Materials to Avoid): Strong oxidizers, strong caustics, reactive metals such as sodium, potassium, zinc, magnesium, aluminum, alkaline earth metals, ozone, fluorine, chromic anhydride, and beryllium.

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 11 – TOXICOLOGICAL INFORMATION

| COMPONENT | CARCINOGENICITY | | | ORAL TOXICITY | INHALATION TOXICITY |
|--------------------------------|-----------------|-----|-------|---|---------------------------|
| | IARC | NTP | ACGIH | | |
| 1,1-Difluoroethane(HFC-152a) | no | no | no | ALD >1500 mg/kg (rat) | ALC 383,000 ppm (4hr/rat) |
| Dimethyl Ether | no | no | no | NA | 164,000 ppm (4hr/rat) |
| Aliphatic Petroleum Distillate | no | no | no | > 2 gm/kg (rat) | >23 mg/l (rat) |
| Dimethylpolysiloxane | no | no | no | not available | not available |
| Aminofunctional Polysiloxane | no | no | no | (exposure to blended mist of dimethylpolysiloxane and aminofunctional polysiloxane) | |
| Mineral Spirits | | | | | |

Section 12 – ECOLOGICAL INFORMATION

Not an ozone-depleting substance.

Section 13 – DISPOSAL CONSIDERATIONS

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 14 – TRANSPORT INFORMATION

| | | | |
|------------------------|---|-----------|---|
| Ground (US DOT) | Consumer Commodity, Class ORM-D, ERG 126; | OR | Aerosols (Limited Quantity), Class 2.1, ERG 126 |
| Air (IATA) | Consumer Commodity, Class 9, UN/ID No. ID 8000, Packing 1900, Authorization: Limited Quantity | | |
| Vessel | Aerosols (Limited Quantity), Class 2, UN No 1950 | | |

Section 15 – REGULATORY INFORMATION

Ozone-Depleting?no FDA 21 CFR 181.28 no USDA H-1, -2 H-1

| COMPONENT | CAS# | SARA 313 | California PROP 65 |
|-----------|------|----------|--------------------|
| None | | none | none |

ADDITIONAL COMMENTS

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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