

FUJIFILM


Material Number / Product Name:

8699 - Surface Coat Part A

Associated Product Codes / Catalog Numbers:

8699

1	PRODUCT AND COMPANY IDENTIFICATION
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Distributed in the U.S.A. by:

FUJIFILM Hunt Smart Surfaces, LLC
 40 Boroline Road
 Allendale, New Jersey 07401-0320

Emergency Telephone (24 Hrs.):

Transport-CHEMTREC inside NA: 800-424-9300
 Transport-CHEMTREC outside NA: 703-527-3887
 Medical-PROSAR inside NA: 877-935-7387

Non-emergency Telephone:

800-473-3854

MSDS are available at:
<http://www.fujihuntusa.com/>
Intended Use: Fouling release coating

2	HAZARDS IDENTIFICATION
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Emergency Overview
Physical State: Liquid

Color: Pale yellow

Odor: Faint

CAUTION!

May cause skin and eye irritation.

Potential Health Effects
Inhalation: High mist concentrations may cause irritation of respiratory tract.

Eye Contact: May cause eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.

Skin Contact: May cause skin irritation.

Ingestion: May be harmful if swallowed.

Target Organ(s): | Eye | Skin |

OSHA Regulatory Status: This product is hazardous according to OSHA 29CFR 1910.1200.

Environment: Not regarded as an environmental hazard under current legislation.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration*
Siloxanes & silicones	70131-67-8	60 - 80%
†Calcium carbonate	471-34-1	20 - 40%
†Silicone fluid	68440-89-1	5 - 10%
†RTV Silicone Rubber	11099-06-2	3 - 7%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
 † This chemical is hazardous according to OSHA/WHMIS criteria.

4 FIRST AID MEASURES

Inhalation: Move into fresh air and keep at rest. Get medical attention if symptoms persist.

Eye Contact: Flush thoroughly with water. If irritation occurs, get medical assistance.

Skin Contact: Flush skin thoroughly with water. If irritation occurs, get medical assistance.

Ingestion: Rinse mouth thoroughly. Get medical attention.

5 FIRE-FIGHTING MEASURES

Extinguishing Media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Special Fire Fighting Procedures: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Unusual Fire & Explosion Hazards: None known.

Hazardous Combustion Products: Carbon Dioxide, Carbon Monoxide, Formaldehyde

Protective Measures: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes and prolonged skin contact. Wear protective clothing as described in Section 8 of this safety data sheet.

Spill Cleanup Methods: Absorb spillage with non-combustible, absorbent material. For waste disposal, see section 13 of the MSDS.

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground.

7 HANDLING AND STORAGE

Handling: Avoid heating to decomposition. Avoid contact with eyes and prolonged skin contact. Avoid breathing mists or vapors. Wash at the end of each work shift and before eating, smoking and using the toilet.

Storage: Store in a cool and well-ventilated place. Keep container closed when not in use. Store away from incompatible materials.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Calcium carbonate (Respirable fraction.)	US. OSHA Z-1 PEL	TWA	5 mg/m ³	
Calcium carbonate (Total dust.)	US. OSHA Z-1 PEL	TWA	15 mg/m ³	

Consult Canadian Provincial Regulations and/or Mexican Regulations on exposure limits, if applicable.

Engineering Controls: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of spray. Observe good industrial hygiene practices. This product may be capable of releasing formaldehyde under certain conditions of use. Formaldehyde is regulated by OSHA 29 CFR 1910.1048. Formaldehyde: OSHA TWA is 0.75 ppm, OSHA STEL is 2 ppm, OSHA Action level is 0.5 ppm.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: High-efficiency particulate respirator.

Eye Protection: Wear approved safety goggles.

Hand Protection: Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Skin Protection: Apron and long sleeves are recommended.

Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental Exposure Controls: Environmental manager must be informed of all major spillages.

9 PHYSICAL AND CHEMICAL PROPERTIES

Color: Pale yellow

Odor: Faint
Odor Threshold: No data available.
Physical State: Liquid
pH: Not applicable
Melting Point: Not applicable.
Freezing Point: No data available.
Boiling Point: Not applicable.
Flash Point: Not applicable.
Evaporation Rate: No data available.
Flammability Limit - Upper (%): No data available.
Flammability Limit - Lower (%): No data available.
Vapor Pressure: Not applicable.
Vapor Density (Air=1): No data available.
Specific Gravity: 1.03 (20°C)
Solubility in Water: Insoluble in water
Solubility (Other): Not applicable.
Partition Coefficient (n-Octanol/water): No data available.
Autoignition Temperature: No data available.
Decomposition Temperature: No data available.
Viscosity: 850 cps
Percent Volatile: 0.2 %w

10	STABILITY AND REACTIVITY
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Stability: Stable under normal temperature conditions

Conditions to Avoid: Excessive heat.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Exposure to air over extended period of time at 150°C or greater can cause the formation of formaldehyde which is a known carcinogen.

Possibility of Hazardous Reactions: Will not occur.

11	TOXICOLOGICAL INFORMATION
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General Information: This product may be capable of releasing formaldehyde under certain conditions of use. Formaldehyde is regulated by OSHA 29 CFR 1910.1048. FORMALDEHYDE: Formaldehyde has carcinogenic potential and is a known skin and respiratory sensitizer.

Specified Substance(s)

Acute Toxicity:

Chemical Name	Test Results
Calcium carbonate	Oral LD50 (Rat): 6450 mg/kg
Siloxanes & silicones	Dermal LD50 (Rabbit): >16 ml/kg
Siloxanes & silicones	Oral LD50 (Rat): >64 ml/kg

Listed Carcinogens: None.

Product Information**Acute Toxicity:****Test Results**

Oral LD50 (Rat): >2000 mg/kg

Acute Toxicity: May cause skin and eye irritation.**Chronic Toxicity:** No data available.**12 ECOLOGICAL INFORMATION****Ecotoxicity:** Not regarded as an environmental hazard under current legislation.**Mobility:** The product is insoluble in water.**Persistence and Degradability:** No data available.**Bioaccumulation Potential:** No data available.**13 DISPOSAL CONSIDERATIONS****General Information:** Dispose of waste and residues in accordance with local authority requirements.**Disposal Instructions:** Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.**14 TRANSPORT INFORMATION****DOT** Not regulated.**TDG** Not regulated.**IATA** Not regulated.**IMDG** Not regulated.**15 REGULATORY INFORMATION****Canadian Controlled Products Regulations:** This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.**WHMIS Classification:** Not classified.**Mexican Dangerous Statement:** This product is dangerous according to Mexican regulations.**Inventory Status**

This product or all components are listed or exempt from listing on the following inventory: TSCA, DSL

US Regulations

CERCLA Hazardous Substance List (40 CFR 302.4): Not regulated.

SARA Title III

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Not regulated.

Section 311/312 (40 CFR 370):

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372): Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Not regulated.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): Not regulated.

Drug Enforcement Act: Not regulated.

TSCA

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.

TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E): Not regulated.

TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

State Regulations

Massachusetts Right-To-Know List: Calcium carbonate

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)): Not regulated.

Minnesota Hazardous Substances List: Not regulated.

New Jersey Right-To-Know List: Not regulated.

Pennsylvania Right-To-Know List: Calcium carbonate; RTV Silicone Rubber

Rhode Island Right-To-Know List: Not regulated.

16	OTHER INFORMATION
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HAZARD RATINGS

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	2	1	0	--

	Health Hazard	Flammability	Physical Hazard	Personal Protection
HMS	2	1	0	C

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Personal Protection codes: C - Safety Glasses, Gloves, Apron

Issue Date: 07-Dec-2007

Supersedes Date: 18-May-2007

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.