

August 8, 2000

Material Safety Data Sheet

L-0049A

Distributor:	IMS Company 10373 Stafford Road Chagrin Falls, OH 44023-5296	Emergency Phone #: Prepared by: Prepared/Revised:	800-424-9300 Safety Advisor August 8, 2000
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Part Numbers.....100519, 100533, 100564, 106511, 113594
Replaces AER3-SE20-5G-K, -55G-K, -1G, -1G-K, -32

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Dow Corning Corporation South Saginaw Road Midland, Michigan 48686

24 Hour Emergency Telephone: Customer Service: Product Disposal Information: CHEMTREC:
(517) 496-5900 (517) 496-6000 (517) 496-6315 (800) 424-9300

MSDS No.: 01010361 Revision Date: 2000/03/30

Generic Description: Silicone emulsion

Physical Form: Liquid

Color: Off-White

Odor: Characteristic odor

NFPA Profile: Health 2 Flammability 1 Instability/Reactivity 0 Note: NFPA = National Fire Protection Association

2. OSHA HAZARDOUS COMPONENTS

CAS Number	Wt %	Component Name
27323-41-7	3.0 - 7.0	Triethanolamine dodecylbenzene sulfonate
556-67-2	1.0 - 5.0	Octamethylcyclotetrasiloxane
9016-45-9	1.0 - 5.0	Polyethylene glycol nonylphenol
102-71-6	1.0 - 5.0	Triethanolamine

The above components are hazardous as defined in 29 CFR 1910.1200.

3. EFFECTS OF OVEREXPOSURE

Acute Effects

Eye: No significant irritation expected from a single exposure.

Skin: May cause mild irritation.

Inhalation: Irritates respiratory passages very slightly.

Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

Skin: Repeated skin contact may cause allergic skin reaction.

Inhalation: Overexposure by inhalation may injure the following organ(s): Reproductive System.

Oral: Repeated ingestion or swallowing large amounts may injure internally.

Signs and Symptoms of Overexposure No known applicable information.

Medical Conditions Aggravated by Exposure No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

4. FIRST AID MEASURES

Eye: Immediately flush with water.

Skin: Remove from skin and immediately flush with water for 15 minutes. Get medical attention if irritation or ill effects develop or persist.

Inhalation: Remove to fresh air. Get medical attention if ill effects persist.

Oral: Get medical attention.

Comments: Treat according to person's condition and specifics of exposure.

5. FIRE FIGHTING MEASURES

Flash Point: > 214.0 °F / > 101.1 °C Closed Cup Autoignition Temperature: Not determined.

Flammability Limits in Air: Not determined.

Extinguishing Media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers.

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Fire Fighting Measures: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Determine the need to evacuate or isolate the area according to your local emergency plan.

Unusual Fire Hazards: None. **Hazardous Decomposition Products** Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Sulfur oxides. Carbon oxides and traces of incompletely burned carbon compounds. Nitrogen oxides. Metal oxides. Silicon dioxide. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES Containment/Clean up: Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbant. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state, and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements. Note: See section 8 for Personal Protective Equipment for Spills. Call Dow Corning Corporation, (517) 496-5900, if additional information is required.

7. HANDLING AND STORAGE Use with adequate ventilation. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Use reasonable care and store away from oxidizing materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

CAS Number	Component Name	Exposure Limits
27323-41-7	Triethanolamine dodecylbenzene sulfonate	Observe triethanolamine limits. ACGIH TLV: TWA 5 mg/m ³ .
556-67-2	Octamethylcyclotetrasiloxane	Dow Corning guide: TWA 10 ppm.
9016-45-9	Polyethylene glycol nonylphenol AIHA WEEL:TWA 10 mg/m ³ .	Observe polyethylene glycol limits.
102-71-6	riethanolamine	ACGIH TLV: TWA 5 mg/m ³ .

Engineering Controls

Local Ventilation: Recommended. General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Eyes: Use proper protection - safety glasses as a minimum.

Skin: Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended. Suitable

Gloves: Silver Shield(R). 4H(R).

Inhalation: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines.

Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator: Organic Vapor/Dust/Mist/Fume Type.

Personal Protective Equipment for Spills

Eyes: Use full face respirator.

Skin: Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.

Inhalation/Suitable Respirator: Use self-contained breathing apparatus (SCBA) or other supplied-air respirator.

Precautionary Measures: Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Use reasonable care. Comments: None. Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid Color: Off-White Odor: Characteristic odor
 Specific Gravity @ 25°C: 1.00 Viscosity: 10 cSt
 Freezing/Melting Point: Not determined. Boiling Point: > 35C/95F
 Vapor Pressure @ 25°C: Not determined. Vapor Density: Not determined.
 Solubility in Water: Not determined. pH: Not determined.
 Volatile Content: Not determined. Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable. Hazardous Polymerization:
 Hazardous polymerization will not occur. Conditions to Avoid: None.
 Materials to Avoid: Oxidizing material can cause a reaction.

11. TOXICOLOGICAL INFORMATION

Acute Toxicology Data for Product Complete information is not yet available.

Component Toxicology Information

Contains Triethanolamine. This chemical is considered a powerful vasodilator. Overexposure may result in decreased blood pressure and other adverse effects on the nervous system and may cause liver and kidney injury. Repeated inhalation or oral exposure of mice and rats to octamethylcyclotetrasiloxane and decamethylcyclopentasiloxane produced an increase in liver size. No gross histopathological or significant clinical chemistry effects were observed. An increase in liver metabolizing enzymes, as well as a transient increase in the number of normal cells (hyperplasia) followed by an increase in cell size (hypertrophy) were determined to be the underlying causes of the liver enlargement. The biochemical mechanisms producing these effects are highly sensitive in rodents, while similar mechanisms in humans are insensitive. Good industrial hygiene practice minimizes inhalation exposure to any chemical. Dow Corning has set an exposure guideline of 10 ppm TWA for these two materials.

In developmental toxicity studies in which rats and rabbits were exposed to octamethylcyclotetrasiloxane by vapor inhalation at concentrations up to 700 ppm and 500 ppm respectively, no teratogenic effects were observed. Octamethylcyclotetrasiloxane administered to rats by whole body inhalation at concentrations of 500 and 700 ppm for 70 days prior to mating, through mating, gestation and lactation resulted in decreases in live litter size. Additionally, increases in the incidence of deliveries of offspring extending over an unusually long time period (dystocia) were observed at these concentrations. Statistically significant alterations in these parameters were not observed in the lower concentrations evaluated (300 and 70 ppm). In a previous range-finding study, rats exposed to vapor concentrations of 700 ppm had decreases in the number of implantation sites and live litter size. The significance of these findings to humans is not known.

Special Hazard Information on Components Reproductive Effects

CAS Number	Wt %	Component Name
556-67-2	1.0 - 5.0	Octamethylcyclotetrasiloxane

Evidence of reproductive effects in laboratory animals.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution No specific information is available.

Environmental Effects No specific information is available.

Fate and Effects in Waste Water Treatment Plants No specific information is available. Ecotoxicity

Classification Criteria Hazard Parameters (LC50 or EC50) High Medium Low Acute Aquatic Toxicity (mg/L) <=1 >1 and <=100 >100 Acute Terrestrial Toxicity <=100 >100 and <= 2000 >2000 This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993. This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. DISPOSAL CONSIDERATIONS

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RCRA Hazard Class (40 CFR 261) When a decision is made to discard this material, as received, is it classified as a hazardous waste? No State or local laws may impose additional regulatory requirements regarding disposal. Call Dow Corning Corporate Environmental Management, (517) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION**DOT Road Shipment Information (49 CFR 172.101)**

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.

Hazard Technical Name: TRIETHANOLAMINE DODECYLBENZENE SULFONATE

Hazard Class: 9 UN/NA Number: UN3082 Packing Group: III

Ocean Shipment (IMDG) Not subject to IMDG code. **Air Shipment (ICAO)** Not subject to ICAO regulations.

Call Dow Corning Transportation, (517) 496-8577, if additional information is required.

15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200. TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings**Section 302 Extremely Hazardous Substances:** None.**Section 304 CERCLA Hazardous Substances:**

CAS Number	Wt %	Component Name
27323-41-7	3.0	TRIETHANOLAMINE DODECYLBENZENESULFONATE

Section 312 Hazard Class: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactive: No**Section 313 Toxic Chemicals:** None present or none present in regulated quantities.

Supplemental State Compliance Information California Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm. None known.

Massachusetts

CAS Number	Wt %	Component Name
27323-41-7 3	.0 - 7.0	TRIETHANOLAMINE DODECYLBENZENESULFONATE
102-71-6	1.0 - 5.0	Triethanolamine

New Jersey

CAS Number	Wt %	Component Name
7732-18-5	40.0 - 70.0	Water
70131-67-8	30.0 - 60.0	Dimethyl siloxane, hydroxy-terminated
27323-41-7	3.0 - 7.0	TRIETHANOLAMINE DODECYLBENZENESULFONATE
556-67-2	1.0 - 5.0	Octamethylcyclotetrasiloxane
9016-45-9	1.0 - 5.0	Polyethylene glycol nonylphenol
102-71-6	1.0 - 5.0	Triethanolamine
541-02-6	1.0 - 5.0	Decamethylcyclopentasiloxane

Pennsylvania

CAS Number	Wt %	Component Name
7732-18-5	40.0 - 70.0	Water
70131-67-8	30.0 - 60.0	Dimethyl siloxane, hydroxy-terminated
27323-41-7	3.0 - 7.0	Triethanolamine dodecylbenzene sulfonate
102-71-6	1.0 - 5.0	Ethanol, 2,2',2''-nitrilotris-

16. OTHER INFORMATION

Prepared by: Dow Corning Corporation These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. (R) indicates Registered Trademark