

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

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DOW CORNING(R) FLOWABLE OXIDE FOX-15

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Dow Corning Corporation	24 Hour Emergency Telephone:	(517) 496-5900
South Saginaw Road	Customer Service:	(517) 496-6000
Midland, Michigan 48686	Product Disposal Information:	(517) 496-5813
	Transportation Information:	(517) 496-8577
	CHEMTREC:	(800) 424-9300

MSDS No: 2359782 Print Date: 02/14/95 Last Revised: 07/25/94

Generic Description: Silicone resin solution
Physical Form: Liquid
Color: Colorless
Odor: Solvent odor
NFPA Profile: Health 2 Flammability 3 Reactivity 1

Note: NFPA = National Fire Protection Association

SECTION 2. OSHA HAZARDOUS COMPONENTS

CAS Number	Wt%	Component	Exposure Limits
000108101	82	Methyl isobutyl ketone	OSHA PEL (final rule) and ACGIH TLV: TWA 50 ppm, STEL 75 ppm.
137125441	18	Hydrogen silsesquioxane	Not established.

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

SECTION 3. EFFECTS OF OVEREXPOSURE

Acute Effects

Eye: Vapors may irritate and cause pain and watering. Direct contact irritates moderately with redness and swelling.

Skin: A single relatively short exposure (less than 24 hours) irritates. Repeated prolonged contact (24 to 48 hours) irritates seriously, may burn mildly.

Inhalation: Short vapor exposure may cause drowsiness, irritate nose and throat and cause injury to the following organ(s): Lungs. Liver. Kidneys. Vapor may cause dizziness, loss of coordination and unconsciousness.

Oral: Swallowing large amounts may cause drowsiness.

Repeated Exposure Effects

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Skin: None Known.

Inhalation: Short vapor exposure may cause drowsiness, irritate nose and throat and cause injury to the following organ(s): Lungs. Liver. Kidneys.

Oral: None Known.

Special Hazards

This material contains the following components with the special hazards listed below.

Carcinogens

None Known

Teratogens

None Known

Mutagens

None Known

Reproductive Toxins

None Known

Sensitizers

None Known

Comments: When heated to temperatures above 180 degrees C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer; and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

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.

SECTION 4. FIRST AID MEASURES

Eye: Immediately flush with water for 15 minutes. Get medical attention.

Skin: Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

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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.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point (Closed Cup): 62.60 DEGREE F / 17.00 DEGREE C

Autoignition Temperature: Not Determined

Flammability Limits in Air: Not Determined

Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Foam.

Unsuitable Extinguishing Media: Water.

Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Heat exposure pressurizes closed containers. Cool with water spray. Evacuate area in case of overheating or fire.

Unusual Fire Hazards: Vapors are heavier than air and can travel along ground to remote ignition sources. Static electricity may accumulate and ignite vapors. Prevent a possible fire hazard by suitable means, such as, bonding and grounding, inert gas purge, vapor dilution, and the like.

Hazardous Decomposition Products:

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Silicon dioxide. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Hydrogen.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Containment/Clean-up: Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations. Remove possible ignition sources and if needed, use nonsparking tools and equipment. To prevent possible spontaneous combustion, store rags, mops, absorbent, etc., used during cleanup only in appropriate containers or covered with water. Determine whether to evacuate or isolate the area depending on such specific factors as site location, population den-

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sity, traffic flow, size of the release or spill, weather conditions, the material's hazards and risks to people, and whether a fire is underway or possible. Mop up, or wipe up, or soak up with absorbent and contain for salvage or disposal. For large spills, provide diking or other appropriate containment to keep material from spreading. Clean any remaining slippery surfaces by appropriate techniques, such as: several moppings or swabbings with appropriate solvents; washing with mild, caustic detergents or solutions; or high pressure steam for large areas. For nonsilicones, use typical industrial cleaning materials. Observe any safety precautions applicable to the cleaning material being used. Observe all personal protection equipment recommendations described in Sections 5 and 8. Local, state, and federal reporting requirements may apply to spills or releases of this material into the environment. See applicable regulatory compliance information in Section 15.

NOTE: See Section 8 for Personal Protective Equipment for Spills

SECTION 7. HANDLING AND STORAGE

Handling: No special precautions.

Storage: Keep container closed and away from heat, sparks, and open flame. Product evolves minute quantities of flammable hydrogen gas. Do not repackage or store in unvented containers. Adequately ventilate the work area to maintain vapors well below established flammability limits and exposure guidelines. Keep container closed and store away from water or moisture.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Local exhaust: Recommended
General Ventilation: Recommended

Personal Protective Equipment For Routine Handling

Eyes: Use chemical worker's goggles.

Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

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Suitable Gloves: Butyl Rubber. Polyvinylalcohol. Teflon(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 Type

Personal Protective Equipment For Spills

Eye: Use full face respirator.

Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Inhalation/

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

Precautionary Measures: Avoid eye exposure. Avoid skin contact. Do not breath vapor. Keep container closed. Do not take internally.

Comments: None

Note: These precautions are for room temperature handling. Use at elevated temperature, or aerosol/spray applications, may require added precautions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical form: Liquid
Color: Colorless
Odor: Solvent odor
Specific Gravity @ 25C: 0.80
Viscosity: 0.60 CST
Freezing/Melting Point: Not Applicable.
Boiling Point: Not Determined.
Vapor Pressure @ 25C: Not Determined.
Vapor Density: Not Determined.
Solubility in Water: None.
pH: Not Applicable.
Volatile content: Not Determined.

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Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

SECTION 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.

Comments: Water, alcohols, acidic or basic materials, and many metals or metallic compounds, when in contact with product, liberate flammable hydrogen gas, which can form explosive mixtures in air.

SECTION 11. TOXICOLOGICAL INFORMATION

OPTIONAL SECTION - Complete information not yet available.

SECTION 12. ECOLOGICAL INFORMATION

OPTIONAL SECTION - Complete information not yet available.

SECTION 13. DISPOSAL CONSIDERATIONS

OPTIONAL SECTION - Complete information not yet available.

Call Dow Corning Environmental Mgmt. (517)496-6315, if more information is desired.

SECTION 14. TRANSPORT INFORMATION

DOT Information (49CFR 172.101)

Proper Shipping Name: METHYL ISOBUTYL KETONE SOLUTION

Hazard Technical Name: Not Available

Hazard Class: 3

UN/NA Number: UN1245

Packing Group: II

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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 birth defects or other reproductive harm.

000108883 .4 Toluene

Massachusetts

000108101 82 Methyl isobutyl ketone

New Jersey

137125441 18 Hydrogen silsesquioxane

000108101 82 METHYL ISOBUTYL KETONE; #1268

Pennsylvania

137125441 18 Hydrogen silsesquioxane

000108101 82 Methyl isobutyl ketone

SECTION 16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

This information is offered in good faith as typical values and not as a product specification. No warranty, 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 or Trademark

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