

MATERIAL SAFETY 3M
 DATA SHEET 3M Center
 St. Paul, Minnesota
 55144-1000
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DIVISION: COMMERCIAL CARE DIVISION

TRADE NAME:

3M Brand MARBLE ENHANCER (NEVER RUST (tm) MARBLE ENHANCER)

ID NUMBER/U.P.C.:

70-0705-2803-2	00-48011-19077-3	70-0705-2804-0	-	-	-
70-0705-8615-4	00-48011-19926-4	FN-5100-1369-4	-	-	-
FN-5100-1370-2	-	FN-5100-1371-0	-	-	-
FN-5100-1372-8	-	FN-5100-1373-6	-	-	-
FN-5100-1374-4	-	FS-9100-0822-6	-	-	-
FS-9100-1018-0	-	FS-9100-1019-8	-	-	-
FS-9100-1020-6	-	FS-9100-1021-4	-	-	-
FS-9100-1022-2	-	FS-9100-1023-0	-	-	-
FS-9100-2682-2	-	FS-9100-2683-0	-	-	-
FS-9100-2684-8	-	FZ-0100-0064-9	-	-	-

ISSUED: March 17, 2000

SUPERSEDES: August 19, 1999

DOCUMENT: 06-1186-3

1. INGREDIENT	C.A.S. NO.	PERCENT
WATER.....	7732-18-5	60 - 90
MAGNESIUM HEXAFLUOROSILICATE HEXAHYDRATE.....	18972-56-0	10 - 30
1-METHOXY-2-PROPANOL.....	107-98-2	7 - 13

IN CASE OF EMERGENCY: THE NUMBERS AT THE TOP OF THIS PAGE PROVIDE 24
 HOUR RESPONSE FROM ANY PHONE FOR ALL EMERGENCIES WITH THIS PRODUCT.

2. PHYSICAL DATA

BOILING POINT:..... 210 - 250 F
 (BP for CAS# 107-98-2 is 248 F)
 VAPOR PRESSURE:..... N/A
 VAPOR DENSITY:..... ca. 3.1 Air=1
 (Value given is for CAS# 107-98-2 alone)
 EVAPORATION RATE:..... ca. 0.7 BuOAc=1
 (Value given is for CAS# 107-98-2 alone)
 SOLUBILITY IN WATER:..... complete

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

2. PHYSICAL DATA (continued)

SPECIFIC GRAVITY:..... ca. 1.2 Water=1
PERCENT VOLATILE:..... 70 - 90 % by wt
pH:..... 1 - 2
VISCOSITY:..... < 100 centipoise
MELTING POINT:..... N/D

APPEARANCE AND ODOR:

Liquid, colorless, slightly turbid

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... ca. 195 F
FLAMMABLE LIMITS - LEL:..... N/D
FLAMMABLE LIMITS - UEL:..... N/D
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:

Water, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

See Hazardous Decomposition section for products of combustion.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 1 REACTIVITY: 0
UNUSUAL REACTION HAZARD: corrosive

OSHA FIRE HAZARD CLASS: Class IIIA Combustible Liquid

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:

Reaction with mineral acids may cause the release of hydrogen fluoride fumes which are corrosive and toxic. Reaction with alkaline materials may create excessive heat and cause spattering of the mixture.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

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4. REACTIVITY DATA (continued)

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Hydrogen Fluoride

Silicon tetrafluoride

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Contain spill. Evacuate unprotected personnel from hazard area. Cover with soda ash (sodium carbonate) or sodium bicarbonate. Collect spilled material. Clean up residue with soda ash (sodium carbonate) solution. Place in a polyethylene-lined metal container. Do not seal for 48 hours.

RECOMMENDED DISPOSAL:

Incinerate in a permitted hazardous waste incinerator. Combustion products will include HF.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: 7 - 13 %.
VOC Less H2O & Exempt Solvents: N/D.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = D002 (Corrosive)

All chemicals used in the manufacture of this material are listed on the following chemical inventories: TSCA (USA), EINECS (Europe), AICS (Australia), CDSL (Canada), MITI (Japan)

EPCRA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

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6. SUGGESTED FIRST AID (continued)

SKIN CONTACT:

Immediately flush skin with large amounts of water. Remove contaminated clothing. If irritation persists, call a physician. Wash contaminated clothing before reuse.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

If swallowed, do NOT induce vomiting. Give victim two glasses of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear unvented goggles during operations in which exposure is likely.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber, neoprene, nitrile rubber.

RECOMMENDED VENTILATION:

Use with appropriate local exhaust ventilation. Use in a well-ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid breathing of vapors, mists or spray. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

RECOMMENDED STORAGE:

Store away from heat. Store at temperatures above 32 degrees F (0 degrees C). Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed. Keep away from heat, sparks, open flame, and other sources of ignition.

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7. PRECAUTIONARY INFORMATION (continued)

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
WATER.....	NONE	NONE	NONE	NONE	
MAGNESIUM HEXAFLUOROSILICATE HEXAHYDRATE.....	2.5	MG/M3	TWA	ACGIH	
	as F				
MAGNESIUM HEXAFLUOROSILICATE HEXAHYDRATE.....	2.5	MG/M3	TWA	OSHA	
	as F				
1-METHOXY-2-PROPANOL.....	100	PPM	TWA	ACGIH	
1-METHOXY-2-PROPANOL.....	150	PPM	STEL	ACGIH	
1-METHOXY-2-PROPANOL.....	100	PPM	TWA	OSHA	
1-METHOXY-2-PROPANOL.....	150	PPM	STEL	OSHA	

* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Single exposure may cause:

Severe Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, cloudy appearance of the cornea, impaired vision and possible permanently impaired vision.

SKIN CONTACT:

Skin Burns (chemical corrosivity): signs/symptoms can include redness, swelling, itching, pain, blistering, ulceration, sloughing, and scar formation.

May be absorbed through the skin and produce effects similiar to those caused by inhalation and/or ingestion.

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8. HEALTH HAZARD DATA (continued)

INHALATION:

Single overexposure, above recommended guidelines, may cause:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Prolonged or repeated overexposure, above recommended guidelines, may cause:

Heart Effects: signs/symptoms can include arrhythmia, heart attack and death.

Kidney Effects: signs/symptoms can include reduced urine volume, blood in urine and back pain.

Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Prolonged or repeated overexposure, above recommended guidelines, may cause:

Color Deposits in Teeth.

Deposition in Bone Tissue.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

Damage to Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, nausea, abdominal tenderness, burns of mouth, difficulty swallowing, blood in vomitus, blood in feces, and ulceration.

SECTION CHANGE DATES

PRECAUTIONARY INFO. SECTION CHANGED SINCE August 19, 1999 ISSUE

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