

MATERIAL SAFETY 3M
 DATA SHEET 3M Center
 St. Paul, Minnesota
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DIVISION: MARINE TRADES PROJECT

TRADE NAME:

3M(TM) Marine One Step Aluminum Restorer and Polish, P.N. 09020,
 09021

ID NUMBER/U.P.C.:

60-9800-1770-5 00-51131-09020-0 60-9800-2033-7 00-51131-09020-0
 60-9800-2034-5 00-51131-09021-7 60-9800-2596-3 00-51131-09020-0
 60-9800-2597-1 00-51131-09020-0 60-9800-3546-7 00-51131-09020-0

ISSUED: March 12, 2001

SUPERSEDES: January 07, 2000

DOCUMENT: 06-3269-5

1. INGREDIENT	C.A.S. NO.	PERCENT
WATER.....	7732-18-5	30.0 - 60.0
ALUMINUM OXIDE.....	1344-28-1	30.0 - 60.0
HYDROTREATED LIGHT PETROLEUM		
DISTILLATES.....	64742-47-8	10.0 - 30.0
OLEIC ACID.....	112-80-1	5.0 - 10.0
AMMONIUM HYDROXIDE.....	1336-21-6	1.0 - 5.0
STEARAMIDE DEA.....	93-82-3	1.0 - 5.0

The components of this product are in compliance with the chemical
 notification requirements of TSCA. All applicable chemical
 ingredients in this material are listed on the European Inventory of
 Existing Chemical Substances (EINECS), or are exempt polymers whose
 monomers are listed on EINECS.

This product contains the following toxic chemical or chemicals subject to
 the reporting requirements of Section 313 of Title III of the Emergency
 Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372:

AMMONIUM HYDROXIDE

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

2. PHYSICAL DATA

BOILING POINT:..... 150 - 212 F
VAPOR PRESSURE:..... < 16 mmHg
VAPOR DENSITY:..... > 1.00 Air=1
EVAPORATION RATE:..... > 1 Water=1
SOLUBILITY IN WATER:..... moderate
SPECIFIC GRAVITY:..... 1.09 Water=1
PERCENT VOLATILE:..... 40 - 75 %
pH:..... ca. 9.4
VISCOSITY:..... N/D
MELTING POINT:..... N/D

APPEARANCE AND ODOR:
Paste, slight ammonia, white.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 220 F
FLAMMABLE LIMITS - LEL:..... N/D
FLAMMABLE LIMITS - UEL:..... N/D
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:
Water spray, 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:
None known.

NFPA HAZARD CODES: HEALTH: 1 FIRE: 1 REACTIVITY: 0
UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:
Strong Oxidizing Agents.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

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4. REACTIVITY DATA (continued)

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Toxic Vapors, Gases or
Particulates.

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. Extinguish all ignition sources.
Cover with absorbent material. Collect spilled material. Clean up
residue with water. Place in a U.S. DOT-approved container.

RECOMMENDED DISPOSAL:

Incinerate in an industrial or commercial facility in the presence of
a combustible material.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: 1.63 lb/gal calculated per SCAQMD rule 443.1.
Volatile Organic Compounds: 196 gms/liter calculated per SCAQMD rule
443.1.
VOC Less H2O & Exempt Solvents: 328 gms/liter calculated per SCAQMD rule
443.1.

Since regulations vary, consult applicable regulations or authorities
before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S.
EPA Hazardous).

EPCRA HAZARD CLASS:

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

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate
medical attention.

SKIN CONTACT:

Flush skin with large amounts of water. If irritation persists, get
medical attention.

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6. SUGGESTED FIRST AID (continued)

INHALATION:

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

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact.

SKIN PROTECTION:

Avoid prolonged or repeated skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: nitrile rubber, polyvinyl alcohol, fluoroelastomer (Viton).

RECOMMENDED VENTILATION:

Use in a well-ventilated area.

RESPIRATORY PROTECTION:

Avoid prolonged breathing of vapors.

PREVENTION OF ACCIDENTAL INGESTION:

Do not ingest.

RECOMMENDED STORAGE:

Store at temperatures above 32 degrees F (0 degrees C). Keep container closed when not in use. 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.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
WATER.....	NONE	NONE	NONE	NONE	
ALUMINUM OXIDE.....	1.0	FIBER/CC	TWA	CMRG	
ALUMINUM OXIDE.....	1.0	FIBER/CC	TWA	OSHA	
		PROPOSED			
ALUMINUM OXIDE.....	10	MG/M3	TWA	OSHAV	
		AS DUST			
		OSHA VACATED PEL			

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EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
ALUMINUM OXIDE.....	10	MG/M3	TWA	ACGIH	
	as Al				
ALUMINUM OXIDE.....	15	MG/M3	TWA	OSHA	
	AS TOTAL DUST				
ALUMINUM OXIDE.....	5	MG/M3	TWA	OSHA	
	RESPIRABLE				
HYDROTREATED LIGHT PETROLEUM DISTILLATES.....	300	PPM	TWA	CMRG	
OLEIC ACID.....	10	MG/M3	TWA	OSHA	
	AS MIST				
OLEIC ACID.....	10	MG/M3	TWA	ACGIH	
	AS MIST				
AMMONIUM HYDROXIDE.....	35	PPM	STEL	CMRG	
	AS AMMONIA				
AMMONIUM HYDROXIDE.....	25	PPM	TWA	CMRG	
	AS AMMONIA				
STEARAMIDE DEA.....	NONE	NONE	NONE	NONE	

* 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
- CMRG: Chemical Manufacturer Recommended Exposure Guidelines
- OSHA: Occupational Safety and Health Administration
- OSHAV: Occupational Safety and Health Administration Vacated PEL. Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with your local regulatory authority.
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

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8. HEALTH HAZARD DATA (continued)

INHALATION:

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:

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

IF SWALLOWED:

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions.

SECTION CHANGE DATES

PRECAUTIONARY INFO. SECTION CHANGED SINCE January 07, 2000 ISSUE

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