

3M General Offices
 3M Center
 St. Paul, Minnesota 55144-1000
 612/733-1110
 Duns No.: 00-617-3082

00-02
 495

MATERIAL SAFETY
 DATA SHEET



DIVISION: PRINTING AND PUBLISHING SYSTEMS

TRADE NAME:

R-PROCESS-GUM

3M I.D. NUMBER: XP-1414-3080-9 XP-1414-3081-7 77-9800-9948-3 77-9800-9949-1
 77-9800-9950-9

ISSUED: APRIL 18, 1989
SUPERSEDES: MARCH 14, 1989
DOCUMENT: 10-3216-8

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE		LIMITS	
			VALUE	UNIT	TYPE	AUTH
Water	7732-18-5	80.0 - 90.0	NONE	NONE	NONE	NONE
Maltodextrin	9050-36-6	1.0 - 5.0	NONE	NONE	NONE	NONE
Propyl Alcohol	71-23-8	1.0 - 5.0	200	ppm	TWA	ACGIH
Magnesium Nitrate	10377-60-3	1.0 - 5.0	NONE	NONE	NONE	NONE
Citric Acid	77-92-9	1.0 - 5.0	NONE	NONE	NONE	NONE
Sodium Lauryl Sulfate	151-21-3	1.0 - 5.0	NONE	NONE	NONE	NONE
Formaldehyde	50-00-0	< 0.1	1	ppm	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

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

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:
 Formaldehyde

2. PHYSICAL DATA

BOILING POINT:..... 201.00 F
VAPOR PRESSURE:..... N/D
VAPOR DENSITY:..... N/D
EVAPORATION RATE:..... 1.00 Water = 1
SOLUBILITY IN WATER:..... Soluble
SP. GRAVITY:..... 1.022 Water = 1
PERCENT VOLATILE:..... >90
VOLATILE ORGANICS:..... 25.60 gm/l
 See Environmental Data
pH:..... 2.40-3.10
VISCOSITY:..... 4.0 CPS
APPEARANCE AND ODOR: Clear Straw - Mucilage Odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A
FLAMMABLE LIMITS - LEL:..... N/A
FLAMMABLE LIMITS - UEL:..... N/A
AUTOIGNITION TEMPERATURE:... N/A
EXTINGUISHING MEDIA:
 CO2
SPECIAL FIRE FIGHTING PROCEDURES:
 None
UNUSUAL FIRE AND EXPLOSION HAZARDS:
 None
NFPA-HAZARD-CODES: HEALTH 1 FIRE 0 REACTIVITY 0
UNUSUAL REACTION HAZARD: None

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

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4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
N/A
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
N/A

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Collect spilled material. Clean up residue. Flush spill area with water to remove residue.

RECOMMENDED DISPOSAL:

IF PERMITTED BY LOCAL REGULATIONS, SEWER AFTER NEUTRALIZING WASTE WITH OTHER FACILITY WASTES OR A BASE SUCH AS SODA ASH, SODIUM HYDROXIDE OR CALCIUM HYDROXIDE. SINCE REGULATIONS VARY, CONSULT LOCAL AUTHORITIES OR REGULATIONS BEFORE DISPOSAL. IF SEWERING IS INAPPROPRIATE, THE WASTE SHOULD BE RECLAIMED OR INCINERATED IN A PERMITTED HAZARDOUS WASTE FACILITY CAPABLE OF MEETING APPLICABLE REGULATORY REQUIREMENTS.

ENVIRONMENTAL DATA:

EPA Hazardous Waste Number: Nonhazardous; SCAQMD Rules 443 and 443.1; Nonphotochemically Reactive; gms VOC/L: 25.6; gms VOC/(L-Vw-Ves): 244.9; Manufactured after July 1, 1987

SARA HAZARD CLASS:

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

6. SUGGESTED FIRST AID

EYE CONTACT:

Flush eyes with plenty of water and contact a physician.

SKIN CONTACT:

N/A

INHALATION:

If irritation or symptoms occur, move to fresh air.

IF SWALLOWED:

Drink two glasses of milk or water and contact a physician or poison control center.

OTHER FIRST AID:

NONE

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7. PRECAUTIONARY INFORMATION

Avoid eye contact. Avoid breathing vapor. Use only with adequate ventilation. Keep container closed when not in use. Do not take internally. Keep out of reach of children.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	EXPOSURE		LIMITS	
	VALUE	UNIT	TYPE	AUTH
Propyl Alcohol	200	ppm	TWA	OSHA
Propyl Alcohol	500	mg/m3	TWA	OSHA
Propyl Alcohol	250	ppm	STEL	OSHA
Propyl Alcohol	625	mg/m3	STEL	OSHA
Propyl Alcohol	500	mg/m3	TWA	ACGIH
Propyl Alcohol	250	ppm	STEL	ACGIH
Propyl Alcohol	625	mg/m3	STEL	ACGIH
Formaldehyde	2	ppm	STEL	OSHA
Formaldehyde	1	ppm	TWA	ACGIH
Formaldehyde	1.5	mg/m3	TWA	ACGIH
Formaldehyde	2	ppm	STEL	ACGIH
Formaldehyde	3	mg/m3	STEL	ACGIH

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA

Eye Contact: May cause eye irritation.

Skin Contact: No adverse health effects are expected.

Inhalation: No adverse health effects are expected. (In dust form, the organic salt, inorganic salt and organic acid can cause respiratory symptom irritation and nervous system irritation, asthma-like symptoms, accumulation of fluid in the lungs, predisposition to respiratory infection, and neurochemical changes. Formaldehyde has caused nasal cancers in laboratory animals on prolonged exposure (NTP, IARC). Due to the aqueous nature of the product and the low concentration of these chemicals in the product, these effects are not anticipated.)

Ingestion: May cause digestive system irritation. (Propyl alcohol can cause abdominal cramps, nervous system impairment, drowsiness, headache, nausea, vomiting, weakness, diarrhea, convulsions, collapse and unconsciousness. Due to the low concentration of propyl alcohol in the product, these effects are not anticipated.)

SECTION CHANGE DATES

INGREDIENTS SECTION CHANGED SINCE MARCH 14, 1989 ISSUE

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The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.