

MATERIAL SAFETY DATA SHEET
 3M
 3M Center
 St. Paul, Minnesota
 55144-1000
 (612) 733-1110

MAY 14 1993

Duns No.: 00-617-3082

DIVISION: INDUSTRIAL TAPE AND SPECIALTIES DIVISION

TRADE NAME:

SCOTCH-SEAL (TM) 800 Industrial Sealant

3M ID NUMBER: 62-0800-0635-6 62-0800-2631-3 62-0800-7530-2 62-0800-8530-1
 62-0800-9530-0 62-0800-9531-8

ISSUED: November 19, 1992
 SUPERSEDES: August 07, 1992
 DOCUMENT: 10-3117-8

1. INGREDIENT	C.A.S. NO.	PERCENT
METHYL ETHYL KETONE.....	78-93-3	40.0 - 50.0
ACRYLONITRILE-BUTADIENE POLYMER.....	9003-18-3	10.0 - 20.0
GLYCEROL ESTERS OF ROSIN ACIDS.....	8050-31-5	10.0 - 20.0
CALCIUM CARBONATE.....	471-34-1	7 - 13
METHYL ISOBUTYL KETONE.....	108-10-1	3.0 - 7.0
TRI(BUTOXYETHYL) PHOSPHATE.....	78-51-3	1.0 - 5
CALCIUM ALUMINUM SILICATE.....	1327-39-5	1.0 - 5.0
TITANIUM DIOXIDE.....	13463-67-7	1.0 - 5.0
IRON OXIDE.....	1309-37-1	1.0 - 5.0
SALICYLIC ACID.....	69-72-7	1.0 - 5
ZINC OXIDE.....	1314-13-2	< 2

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:

- METHYL ETHYL KETONE
- METHYL ISOBUTYL KETONE
- TRI(BUTOXYETHYL) PHOSPHATE
- ZINC OXIDE

2. PHYSICAL DATA

BOILING POINT:..... 175F (MEK)
 VAPOR PRESSURE:..... @68F 80 mm
 VAPOR DENSITY:..... 2.5
 EVAPORATION RATE:..... 2.7
 SOLUBILITY IN WATER:..... Slight
 SPECIFIC GRAVITY:..... 1.04
 PERCENT VOLATILE:..... 48.0%
 VOLATILE ORGANIC COMPOUNDS:.... 604 gms/liter SCAQMD
 Rule 443.1, calculated
 VOC LESS H2O & EXEMPT SOLVENTS: 604 gms/liter SCAQMD
 Rule 443.1, calculated
 pH:..... N/D
 VISCOSITY:..... 28,736 cps
 Melting point:..... N/D

2. PHYSICAL DATA (continued)

APPEARANCE AND ODOR:

Reddish-brown, heavy syrup - ketone odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... 20F
FLAMMABLE LIMITS - LEL:..... 1.4
FLAMMABLE LIMITS - UEL:..... 11.5
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:

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:

Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 3 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.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Hydrogen Cyanide, Aldehydes, Ketones, Hydrocarbons, Oxides of Zinc.

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

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. Call (612) 733-1110 or (612) 733-6100 for 24-hour spill assistance. Ventilate area. Extinguish all ignition sources. Collect using non-sparking tools. Cover with absorbent material. Place in a U.S. DOT-approved container and seal.

RECOMMENDED DISPOSAL:

Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Dispose of waste product in a facility permitted to accept chemical waste.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = D001 (Ignitable).

SARA HAZARD CLASS:

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

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.

INHALATION:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

IF SWALLOWED:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear vented goggles. Wear safety glasses with side shields.

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, polyethylene/ethylene vinyl alcohol, polytetrafluoroethylene (Teflon).

RECOMMENDED VENTILATION:

Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid prolonged breathing of vapors. 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 ingest.

RECOMMENDED STORAGE:

Keep container closed when not in use. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed. Flammable liquid and vapor. Keep away from heat, sparks, open flame, and other sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
METHYL ETHYL KETONE.....	200	PPM	TWA	OSHA	
METHYL ETHYL KETONE.....	590	MG/M3	TWA	OSHA	
METHYL ETHYL KETONE.....	300	PPM	STEL	OSHA	
METHYL ETHYL KETONE.....	885	MG/M3	STEL	OSHA	
METHYL ETHYL KETONE.....	200	PPM	TWA	ACGIH	
METHYL ETHYL KETONE.....	590	MG/M3	TWA	ACGIH	
METHYL ETHYL KETONE.....	300	PPM	STEL	ACGIH	
METHYL ETHYL KETONE.....	885	MG/M3	STEL	ACGIH	
ACRYLONITRILE-BUTADIENE POLYMER.....	NONE	NONE	NONE	NONE	
GLYCEROL ESTERS OF ROSIN ACIDS.....	NONE	NONE	NONE	NONE	
CALCIUM CARBONATE.....	10	MG/M3	TWA	ACGIH	

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

EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
METHYL ISOBUTYL KETONE.....	50	PPM	TWA	ACGIH	
METHYL ISOBUTYL KETONE.....	205	MG/M3	TWA	ACGIH	
METHYL ISOBUTYL KETONE.....	75	PPM	STEL	ACGIH	
METHYL ISOBUTYL KETONE.....	308	MG/M3	STEL	ACGIH	
METHYL ISOBUTYL KETONE.....	50	PPM	TWA	OSHA	
METHYL ISOBUTYL KETONE.....	205	MG/M3	TWA	OSHA	
METHYL ISOBUTYL KETONE.....	75	PPM	STEL	OSHA	
METHYL ISOBUTYL KETONE.....	300	MG/M3	STEL	OSHA	
TRI(BUTOXYETHYL) PHOSPHATE.....	NONE	NONE	NONE	NONE	
CALCIUM ALUMINUM SILICATE.....	NONE	NONE	NONE	NONE	
TITANIUM DIOXIDE.....	10	MG/M3	TWA	ACGIH	
TITANIUM DIOXIDE.....	10	MG/M3	TWA	OSHA	
IRON OXIDE.....	5	MG/M3	TWA	ACGIH	
	as Fe				
IRON OXIDE.....	10	MG/M3	TWA	OSHA	
	as fume				
IRON OXIDE.....	5	MG/M3	TWA	ACGIH	
	as Fe				
SALICYLIC ACID.....	NONE	NONE	NONE	NONE	
ZINC OXIDE.....	10	MG/M3	TWA	ACGIH	
	as dust				
ZINC OXIDE.....	10	MG/M3	TWA	OSHA	
	as dust				
ZINC OXIDE.....	5	MG/M3	TWA	ACGIH	
	as FUME				
ZINC OXIDE.....	10	MG/M3	STEL	ACGIH	
	as FUME				
ZINC OXIDE.....	5	MG/M3	TWA	OSHA	
	as FUME				
ZINC OXIDE.....	10	MG/M3	STEL	OSHA	
	as FUME				

* 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:

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

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

8. HEALTH HAZARD DATA (continued)

SKIN CONTACT:

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

INHALATION:

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.

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.

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.

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.

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.

Ingestion may cause:

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.

Aspiration Pneumonitis: signs/symptoms can include coughing,
difficulty breathing, wheezing, coughing up blood and pneumonia,
which can be fatal.

SECTION CHANGE DATES

HEADING	SECTION CHANGED SINCE	August 07, 1992	ISSUE
INGREDIENTS	SECTION CHANGED SINCE	August 07, 1992	ISSUE
FIRE AND EXPL.	SECTION CHANGED SINCE	August 07, 1992	ISSUE
REACTIVITY DATA	SECTION CHANGED SINCE	August 07, 1992	ISSUE
ENVIRONMENTAL INFO.	SECTION CHANGED SINCE	August 07, 1992	ISSUE
SUGG. FIRST AID	SECTION CHANGED SINCE	August 07, 1992	ISSUE
PRECAUTIONARY INFO.	SECTION CHANGED SINCE	August 07, 1992	ISSUE
HEALTH HAZARD DATA	SECTION CHANGED SINCE	August 07, 1992	ISSUE

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

The information on this Data Sheet represents our current data and best opinion as to the proper use and 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.