

MATERIAL SAFETY 3M
 DATA SHEET 3M Center
 St. Paul, Minnesota
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DIVISION: ENGINEERED ADHESIVES

TRADE NAME:

3M(TM) Scotch-Grip(TM) Rubber and Gasket Adhesive 847-L

ID NUMBER/U.P.C.:

62-1022-5530-4	00-21200-19774-1	62-1022-6530-3	-	-	-
62-1022-6535-2	00-21200-22573-4	62-1022-7535-1	00-21200-22574-1		
62-1022-8535-0	00-21200-22575-8	62-1022-9535-9	00-21200-22576-5		
62-1022-9537-5	00-21200-85865-9				

ISSUED: November 27, 2001

SUPERSEDES: August 06, 2001

DOCUMENT: 10-2684-8

1. INGREDIENT	C.A.S. NO.	PERCENT
ACETONE.....	67-64-1	40.0 - 50.0
TOLUENE.....	108-88-3	10.0 - 20.0
METHYL ETHYL KETONE.....	78-93-3	10.0 - 20.0
ACRYLONITRILE-BUTADIENE POLYMER.....	9003-18-3	10.0 - 20.0
PHENOL-FORMALDEHYDE POLYMER.....	9003-35-4	3 - 7
GLYCEROL ESTERS OF ROSIN ACIDS.....	8050-31-5	3 - 7
SALICYLIC ACID.....	69-72-7	1 - 5
ZINC OXIDE.....	1314-13-2	< 1.5
ANTIOXIDANT.....	68411-46-1	< .5

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.
 The components of this product are in compliance with the chemical
 notification requirements of TSCA.

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:

- TOLUENE
- METHYL ETHYL KETONE
- ZINC OXIDE

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

2. PHYSICAL DATA

BOILING POINT:..... ca. 132 F
 Acetone
VAPOR PRESSURE:..... 180 mmHg
 @ 68F
VAPOR DENSITY:..... 2 Air=1
EVAPORATION RATE:..... 1.9 Ether=1
SOLUBILITY IN WATER:..... slight
SPECIFIC GRAVITY:..... .88 Water=1
PERCENT VOLATILE:..... ca. 75 % by wt
pH:..... N/A
VISCOSITY:..... ca. 300 centipoise
MELTING POINT:..... N/D

APPEARANCE AND ODOR:
Brown liquid - strong ketone odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... 0 F TCC
 Acetone
FLAMMABLE LIMITS - LEL:..... 1.27 % by vol
FLAMMABLE LIMITS - UEL:..... 12.8 % by vol
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

OSHA FIRE HAZARD CLASS: Class IB Flammable Liquid

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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.

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. Extinguish all ignition sources. Cover with absorbent material. Collect using non-sparking tools. Place in a U.S. DOT-approved container.

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:

Volatile Organic Compounds: ca. 247 gms/liter calculated per SCAQMD rule 443.1.
Volatile Organic Compounds: ca. 2.06 lb/gal calculated per SCAQMD rule 443.1.
Volatile Organic Compounds: ca. 28 % by wt calculated per SCAQMD rule 443.1.
VOC Less H2O & Exempt Solvents: ca. 507 gms/liter calculated per SCAQMD rule 443.1.

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

EPCRA HAZARD CLASS:

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

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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: 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.

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 7. PRECAUTIONARY INFORMATION (continued)

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*
ACETONE.....	500	PPM	TWA	ACGIH	
ACETONE.....	750	PPM	STEL	ACGIH	
ACETONE.....	750	PPM	TWA	OSHAV	
		OSHA VACATED	PEL		
ACETONE.....	1000	PPM	STEL	OSHAV	
		OSHA VACATED	PEL		
ACETONE.....	1000	PPM	TWA	OSHA	
TOLUENE.....	50	PPM	TWA	ACGIH	Y
TOLUENE.....	100	PPM	TWA	OSHAV	
		OSHA VACATED	PEL		
TOLUENE.....	150	PPM	STEL	OSHAV	
		OSHA VACATED	PEL		
TOLUENE.....	200	PPM	TWA	OSHA	
TOLUENE.....	300	PPM	CEIL	OSHA	
TOLUENE.....	75	PPM	STEL	CMRG	Y
METHYL ETHYL KETONE.....	200	PPM	TWA	OSHA	
METHYL ETHYL KETONE.....	300	PPM	STEL	OSHA	
METHYL ETHYL KETONE.....	200	PPM	TWA	ACGIH	
METHYL ETHYL KETONE.....	300	PPM	STEL	ACGIH	
ACRYLONITRILE-BUTADIENE POLYMER.....	NONE	NONE	NONE	NONE	
PHENOL-FORMALDEHYDE POLYMER.....	NONE	NONE	NONE	NONE	
GLYCEROL ESTERS OF ROSIN ACIDS.....	NONE	NONE	NONE	NONE	
SALICYLIC ACID.....	NONE	NONE	NONE	NONE	
ZINC OXIDE.....	10	MG/M3	TWA	ACGIH	
		AS DUST			
ZINC OXIDE.....	10	MG/M3	TWA	OSHAV	
		AS DUST			
		OSHA VACATED	PEL		
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	OSHAV	
		as fume			
		OSHA VACATED	PEL		
ZINC OXIDE.....	15	MG/M3	TWA	OSHA	
		AS TOTAL DUST			

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EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
ZINC OXIDE.....	5	MG/M3	TWA	OSHA	
		RESPIRABLE			
ANTIOXIDANT.....	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.

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.

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,

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8. HEALTH HAZARD DATA (continued)

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.

REPRODUCTIVE/DEVELOPMENTAL TOXINS:

WARNING: Contains a chemical which can cause birth defects. (108-88-3)

SECTION CHANGE DATES

PRECAUTIONARY INFO. SECTION CHANGED SINCE August 06, 2001 ISSUE

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