

MATERIAL SAFETY 3M  
 DATA SHEET 3M Center  
 St. Paul, Minnesota  
 55144-1000  
 1-800-364-3577 or (651) 737-6501 (24 hours)

Copyright, 2001, Minnesota Mining and Manufacturing Company.  
 All rights reserved. Copying and/or downloading of this  
 information for the purpose of properly utilizing 3M products  
 is allowed provided that:

- 1) the information is copied in full with no changes unless  
 prior agreement is obtained from 3M, and
- 2) neither the copy nor the original is resold or otherwise  
 distributed with the intention of earning a profit thereon.

DIVISION: ENGINEERED ADHESIVES

TRADE NAME:

3M(TM) Scotch-Grip(TM) Plastic Adhesive 1099

ID NUMBER/U.P.C.:

62-1099-2631-1	00-21200-19808-3	62-1099-2635-2	-	-	-
62-1099-6530-1	00-21200-19811-3	62-1099-7530-0	00-21200-19813-7		
62-1099-8530-9	00-21200-19814-4	62-1099-9530-8	00-21200-19815-1		
62-1099-9535-7	00-21200-30007-3				

ISSUED: May 24, 2001

SUPERSEDES: October 24, 2000

DOCUMENT: 10-2442-1

1. INGREDIENT	C.A.S. NO.	PERCENT
ACETONE.....	67-64-1	60.0 - 70.0
ACRYLONITRILE-BUTADIENE POLYMER.....	9003-18-3	10.0 - 20.0
PHENOL-FORMALDEHYDE POLYMER.....	9003-35-4	5 - 10.0
PHENOLIC RESIN.....	55185-45-0	5.0 - 10.0
SALICYLIC ACID.....	69-72-7	1.0 - 5.0
ZINC OXIDE.....	1314-13-2	1.0 - 5.0

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. 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:

ZINC OXIDE

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

-----  
2. PHYSICAL DATA  
-----

BOILING POINT:..... 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:..... .89 Water=1  
PERCENT VOLATILE:..... ca. 67 % by wt  
pH:..... N/D  
VISCOSITY:..... ca. 2150 centipoise  
MELTING POINT:..... N/D

APPEARANCE AND ODOR:  
    Light tan liquid - ketone odor

-----  
3. FIRE AND EXPLOSION HAZARD DATA  
-----

FLASH POINT:..... 0 F TCC  
FLAMMABLE LIMITS - LEL:..... 2.6 % 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: 1 FIRE: 3 REACTIVITY: 0  
                    UNUSUAL REACTION HAZARD: none

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

-----  
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: 0 gms/liter calculated per SCAQMD rule 443.1.  
VOC Less H2O & Exempt Solvents: 0 gms/liter calculated per SCAQMD rule 443.1.  
Hazardous Air Pollutants: 0 % by wt calculated.

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

-----  
6. SUGGESTED FIRST AID  
-----

EYE CONTACT:

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

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

-----  
6. SUGGESTED FIRST AID (continued)  
-----

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

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

7. PRECAUTIONARY INFORMATION (continued)

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	OSHA	
	OSHA VACATED PEL				
ACETONE.....	1000	PPM	STEL	OSHA	
	OSHA VACATED PEL				
ACETONE.....	1000	PPM	TWA	OSHA	
ACRYLONITRILE-BUTADIENE POLYMER.....	NONE	NONE	NONE	NONE	
PHENOL-FORMALDEHYDE POLYMER.....	NONE	NONE	NONE	NONE	
PHENOLIC RESIN.....	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	OSHA	
	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	OSHA	
	as fume				
	OSHA VACATED PEL				
ZINC OXIDE.....	15	MG/M3	TWA	OSHA	
	AS TOTAL DUST				
ZINC OXIDE.....	5	MG/M3	TWA	OSHA	
	RESPIRABLE				

\* 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
- OSHA: 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.

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

EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
-----					
- 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, 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.

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

-----  
SECTION CHANGE DATES  
-----

HEADING                      SECTION CHANGED SINCE October 24, 2000      ISSUE

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

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M.