

Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M[™] Lapping Film, 061X **MANUFACTURER:** 3M **Electronics Markets Materials Division DIVISION:**

> **ADDRESS:** 3M Center St. Paul, MN 55144-1000

> > EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 06/30/10 **Supercedes Date:** 06/30/10

Document Group: 11-6899-6

Product Use:

Abrasive Product

SECTION 2: INGREDIENTS

Ingredient

ALUMINUM OXIDE MINERAL POLYESTER FILM BACKING CHROMIUM OXIDE (CR2O3) POLYMERIC RESIN (CURED)

Intended Use:

<u>C.A.S. No.</u> 1344-28-1 25038-59-9 1308-38-9 None

<u>% by Wt</u> 5 - 20 55 - 80 5 - 20 3 - 10

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: Green, no odor General Physical Form: Solid Immediate health, physical, and environmental hazards: environmental hazard. This document covers only the 3M product. For complete assessment, when determining the degree of hazard, the material being abraded must also be considered.

The environmental properties of this product present a low

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin Contact:

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

Inhalation:

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Prolonged or repeated exposure may cause:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

Ingestion:

Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

This substance does not leach metals or other RCRA (Resource Conservation and Recovery Act) listed TCLP (Toxic Characteristic Leaching Procedure) hazardous substances at concentrations that would make the product a hazardous waste.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

MATERIAL SAFETY DATA SHEET 3MTM Lapping Film, 061X 06/30/10

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	Not Applicable
Flash Point	Not Applicable
Flammable Limits - LEL	Not Applicable
Flammable Limits - UEL	Not Applicable

5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable. None inherent in this product.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Not applicable.

Environmental procedures

Not applicable. Place in a closed container approved for transportation by appropriate authorities.

Clean-up methods

Not applicable.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid breathing of dust created by cutting, sanding, grinding or machining. Damaged product can break apart during use and cause serious injury to face or eyes. Check product for damage such as cracks or nicks prior to use. Replace if damaged. Always wear eye and face protection when working at sanding or grinding operations or when near such operations. Sparks and particles flying from the product during sanding or grinding can cause injury and fire.

7.2 STORAGE

MATERIAL SAFETY DATA SHEET 3MTM Lapping Film, 061X 06/30/10

Store in a cool, dry place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment. Provide appropriate local exhaust ventilation for sanding, grinding or machining.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact. To minimize the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations.

8.2.2 Skin Protection

Avoid skin contact. Gloves are not required. Wear appropriate gloves to minimize risk of injury to skin from contact with dust or physical abrasion from grinding or sanding.

8.2.3 Respiratory Protection

Avoid breathing of dust created by cutting, sanding, grinding or machining. Assess exposure concentrations of all materials involved in the work process. Consider material being abraded when determining the appropriate resipratory protection. Select and use appropriate respirators to prevent inhalation overexposure.

8.2.4 Prevention of Swallowing

Not applicable. Not an expected route of exposure. Wash hands after handling and before eating.

8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	Type	<u>Limit</u>	Additional Information
ALUMINUM OXIDE MINERAL	CMRG	TWA	1 fiber/cc	
ALUMINUM OXIDE MINERAL	OSHA	TWA, respirable	5 mg/m3	
		fraction		
ALUMINUM OXIDE MINERAL	OSHA	TWA, as total dust	15 mg/m3	
POLYESTER FILM BACKING	CMRG	TWA, as respirable	5 mg/m3	
		dust		
POLYESTER FILM BACKING	CMRG	TWA, as total dust	10 mg/m3	
			2	

SOURCE OF EXPOSURE LIMIT DATA: ACGIH: American Conference of Governmental Industrial Hygienists CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

MATERIAL SAFETY DATA SHEET 3M[™] Lapping Film, 061X 06/30/10

Odor, Color, Grade:	Green, no odor		
General Physical Form:	Solid		
Autoignition temperature	Not Applicable		
Flash Point	Not Applicable		
Flammable Limits - LEL	Not Applicable		
Flammable Limits - UEL	Not Applicable		
Boiling point	Not Applicable		
Vapor Density	Not Applicable		
Vapor Pressure	Not Applicable		
Specific Gravity pH Melting point	No Data Available Not Applicable Not Applicable		
Solubility In Water	Not Applicable		
Kow - Oct/Water partition coef	Not Applicable		

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: 10.1 Conditions to avoid None known

10.2 Materials to avoid None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

<u>Substance</u> Carbon monoxide Carbon dioxide <u>Condition</u> During Combustion During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: The substrate that was abraded must be considered as a factor in the disposal method for this product. Dispose of waste product in a sanitary landfill. Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, incinerate in an industrial or commercial facility.

EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14:TRANSPORT INFORMATION

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	<u>% by Wt</u>
CHROMIUM OXIDE (CR2O3) (CHROMIUM	1308-38-9	5 - 20
(III) COMPOUNDS)		

STATE REGULATIONS

Contact 3M for more information.

MATERIAL SAFETY DATA SHEET 3MTM Lapping Film, 061X 06/30/10

CHEMICAL INVENTORIES

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 1 Flammability: 0 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Reason for Reissue: The MSDS has been revised because 3M has adopted the 16-section ANSI/ISO format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information.

Revision Changes: Section 1: Product name was modified. Page Heading: Product name was modified. Copyright was modified. Section 6: Release measures information was deleted. Section 6: Release measures heading was deleted. Section 8: Skin protection phrase was modified. Section 8: Prevention of swallowing information was modified. Section 13: Waste disposal method information was modified. Section 10: Materials and conditions to avoid physical property was deleted. Section 9: Property description for optional properties was added. Section 8: Exposure guidelines ingredient information was modified. Section 8: Exposure guidelines legend was deleted. Section 6: Environmental procedures heading was added. Section 6: Personal precautions heading was added. Section 10.1 Conditions to avoid heading was added. Section 10.2 Materials to avoid heading was added. Section 6: Personal precautions information was added. Section 6: Environmental procedures information was added. Section 6: Methods for cleaning up information was added.

Section 10: Materials to avoid physical property was added. Section 10: Conditions to avoid physical property was added. Section 8: Hand protection information was added. Section 6: Clean-up methods heading was added.

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