

MATERIAL SAFETY 3M
 DATA SHEET 3M Center
 St. Paul, Minnesota
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DIVISION: I&C NEW PRODUCTS DEPARTMENT
 TRADE NAME:

NEXTEL(tm) 610 WITH 299 OR 399 SIZING
 ID NUMBER/U.P.C. :
 42-0015-0276-6 - - - 42-0015-0277-4 - - -
 98-0400-1903-0 00-51115-04574-5 98-0400-1939-4 00-51115-04970-5
 98-0400-2174-7 00-51115-07130-0 98-0400-2680-3 00-51115-07594-0
 98-0400-6632-0 00-51115-11469-4
 ISSUED: April 11, 2001
 SUPERSEDES: December 01, 2000
 DOCUMENT: 06-2278-7

1. INGREDIENT	C.A.S. NO.	PERCENT
ALUMINUM OXIDE.....	1344-28-1	96.5 - 99.5
ORGANIC SIZING.....	Unknown	0.5 - 3.5

2. PHYSICAL DATA

BOILING POINT:..... N/A
 VAPOR PRESSURE:..... N/A
 VAPOR DENSITY:..... N/A
 EVAPORATION RATE:..... N/A
 SOLUBILITY IN WATER:..... 0.5 - 3.5 %
 BY WEIGHT
 SPECIFIC GRAVITY:..... ca. 3.94 g/ml
 PERCENT VOLATILE:..... 0.5 - 3.5 %
 BY WEIGHT
 pH:..... N/A
 VISCOSITY:..... N/A
 MELTING POINT:..... ca. 2000 C

APPEARANCE AND ODOR:
 Textile grade (greater than 7um in diameter), shiny, off-white,
 thread, yarn or fabric.

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

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:
Not applicable

SPECIAL FIRE FIGHTING PROCEDURES:
None known.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Not applicable.

NFPA HAZARD CODES: HEALTH: 0 FIRE: 1 REACTIVITY: 0
UNUSUAL REACTION HAZARD: none

OSHA FIRE HAZARD CLASS: Not determined

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:
None known.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide and Carbon Dioxide

Formic acid and trace amounts of other substances

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. Collect spill using a vacuum cleaner with absolute High Efficiency Particulate Air filter. CAUTION! A vacuum cleaner could be source of ignition. Place in a closed container.

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5. ENVIRONMENTAL INFORMATION (continued)

RECOMMENDED DISPOSAL:

Dispose of waste product in a sanitary landfill.

ENVIRONMENTAL DATA:

No data available.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/D.

VOC Less H2O & Exempt Solvents: N/D.

Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, the user should determine if the release qualifies as a reportable quantity.

EPCRA HAZARD CLASS:

FIRE HAZARD: No 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:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

No need for first aid is anticipated.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact.

SKIN PROTECTION:

Avoid prolonged or repeated skin contact.

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7. PRECAUTIONARY INFORMATION (continued)

RECOMMENDED VENTILATION:

Provide appropriate local exhaust for grinding, cutting or sanding cured material. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

RESPIRATORY PROTECTION:

Avoid breathing of dust created by cutting, sanding or grinding.

PREVENTION OF ACCIDENTAL INGESTION:

Wash hands after handling and before eating.

RECOMMENDED STORAGE:

Keep container dry.

FIRE AND EXPLOSION AVOIDANCE:

Not applicable.

OTHER PRECAUTIONARY INFORMATION:

This product, when used under reasonable conditions or in accordance with the 3M directions for use, should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
ALUMINUM OXIDE.....	1.0	FIBER/CC	TWA	CMRG	
ALUMINUM OXIDE.....	1.0	FIBER/CC	TWA	OSHA	
		PROPOSED			
ALUMINUM OXIDE.....	10	MG/M3	TWA	OSHAV	
		AS DUST			
		OSHA VACATED PEL			
ALUMINUM OXIDE.....	10	MG/M3	TWA	ACGIH	
		as Al			
ALUMINUM OXIDE.....	15	MG/M3	TWA	OSHA	
		AS TOTAL DUST			
ALUMINUM OXIDE.....	5	MG/M3	TWA	OSHA	
		RESPIRABLE			
ORGANIC SIZING.....	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:

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EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
- 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:

Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

SKIN CONTACT:

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

INHALATION:

Fibrosis (general): signs/symptoms can include shortness of breath and persistent coughing.

Heated material may evolve toxic vapors.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

Swallowing a relatively large amount of this material is unlikely to produce serious illness or death.

CANCER:

due to their large size, Nextel(TM) Ceramic Fibers are considered to be non-respirable and, therefore, unlikely to pose a cancer risk. Respirable fibers are defined by the World Health Organization as having lengths greater than 5 microns, diameters less than 3 microns and length-to-diameter ratios greater than 3:1. Nextel(TM) Ceramic Fibers have diameters of 7 to 13 microns and are continuous in length.

OTHER HEALTH HAZARD INFORMATION:

Due to their large size (7-13 microns in diameter), these Nextel (TM) Ceramic Fibers are considered non-respirable and therefore are not expected to pose a cancer risk. Fibers are defined as respirable by

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8. HEALTH HAZARD DATA (continued)

WHO convention if the length is larger than 5 microns and the diameter is less than 3 microns with a length to diameter ratio greater than 3:1.

SECTION CHANGE DATES

HEALTH HAZARD DATA SECTION CHANGED SINCE December 01, 2000 ISSUE

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