

# **Material Safety Data Sheet**

Copyright, 2009, 3M 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 written 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.

# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** 3M<sup>TM</sup> Abrasive Product, 340D P40-P120

**MANUFACTURER:** 3M

**DIVISION:** Abrasives Systems Division

**ADDRESS:** 3M Center

St. Paul, MN 55144-1000

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

Issue Date: 07/29/09
Supercedes Date: Initial Issue

**Document Group:** 26-8233-4

**Product Use:** 

Intended Use: Abrasive Product

# **SECTION 2: INGREDIENTS**

<u>C.A.S. No.</u>	
1344-28-1	10 - 30
1317-65-3	10 - 25
471-34-1	0.5 - 5
1332-58-7	1 - 5
13463-67-7	0.1 - 2
14808-60-7	0.01 - 0.32
Mixture	10 - 30
Mixture	20 - 50
	1344-28-1 1317-65-3 471-34-1 1332-58-7 13463-67-7 14808-60-7 Mixture

# **SECTION 3: HAZARDS IDENTIFICATION**

## 3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: Solid Abrasive Product

General Physical Form: Solid

**Immediate health, physical, and environmental hazards:**This document covers only the 3M product. For

Page 1 of 8

complete assessment, when determining the degree of hazard, the material being abraded must also be considered.

#### 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:**

No health effects are expected.

This product contains quartz silica. Cancer of the lungs and silicosis have been associated with quartz (crystalline) silica. No exposure to quartz (crystalline) silica is anticipated during normal intended use of 3M Coated and Surface Conditioning Abrasives. No detectable respirable quartz and other forms of crystalline silica were found when a simulated grinding air sampling study was conducted on analogous 3M Coated Abrasive and Surface Conditioning constructions that contained similar to or greater concentrations of crystalline silica. Therefore, the health effects associated with crystalline silica (e.g. quartz) are not expected during the intended use of this product.

IngredientC.A.S. No.Class DescriptionRegulationQuartz Silica14808-60-7Group 1International Agency for Research on CancerQuartz Silica14808-60-7Known human carcinogenNational Toxicology Program Carcinogens

## **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.

**If Swallowed:** No need for first aid is anticipated.

## **SECTION 5: FIRE FIGHTING MEASURES**

#### 5.1 FLAMMABLE PROPERTIES

Autoignition temperatureNot ApplicableFlash PointNot ApplicableFlammable Limits - LELNot ApplicableFlammable Limits - UELNot 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

Accidental Release Measures: 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

For industrial or professional use only. Avoid breathing of dust created by sanding, grinding or machining. Avoid eye contact with dust or airborne particles. 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

Store in a cool, dry place.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 ENGINEERING CONTROLS

Provide ventilation adequate to control dust concentrations below recommended exposure limits and/or control dust. Provide appropriate local exhaust ventilation for sanding, grinding or machining. 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.

## **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.

The following eye protection(s) are recommended: Safety Glasses with side shields.

#### 8.2.2 Skin Protection

Avoid skin contact. 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 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.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with N95 particulate filters. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

### 8.2.4 Prevention of Swallowing

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

#### 8.3 EXPOSURE GUIDELINES

<b>Ingredient</b>	<b>Authority</b>	<b>Type</b>	<u>Limit</u>	<b>Additional Information</b>
Aluminum Oxide Mineral	ACGIH	TWA, particulate	10 mg/m3	Table A4
		matter, < 1%		
		crystalline silica		
Aluminum Oxide Mineral	CMRG	TWA	1 fiber/cc	
Aluminum Oxide Mineral	OSHA	TWA, respirable	5 mg/m3	Table Z-1
Aluminum Oxide Mineral	OSHA	TWA, Vacated, as	10 mg/m3	
		dust		
Aluminum Oxide Mineral	OSHA	TWA, as total dust	15 mg/m3	Table Z-1
Filler	CMRG	TWA	10 mg/m3	
Filler	CMRG	STEL	20 mg/m3	
Filler	ACGIH	TWA, respirable	2 mg/m3	Table A4
Filler	OSHA	TWA, respirable	5 mg/m3	Table Z-1
Filler	OSHA	TWA, Vacated, as	10 mg/m3	
		dust		
Filler	OSHA	TWA, as total dust	15 mg/m3	Table Z-1
Filler	ACGIH	TWA	10 mg/m3	
Filler	OSHA	TWA, respirable	5 mg/m3	Table Z-1
Filler	OSHA	TWA, as total dust	15 mg/m3	Table Z-1
Quartz Silica	ACGIH	TWA, respirable	0.025  mg/m3	Table A2
Quartz Silica	OSHA	TWA, respirable	0.1  mg/m3	Table Z-1A
Additive	ACGIH	TWA	10 mg/m3	Table A4
Additive	CMRG	TWA, as respirable	5 mg/m3	

#### MATERIAL SAFETY DATA SHEET 3M<sup>TM</sup> Abrasive Product, 340D P40-P120 07/29/09

dust

Additive OSHA TWA, Vacated, as 10 mg/m3

dust

Additive OSHA TWA, as total dust 15 mg/m3 Table Z-1

VAC Vacated PEL:Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

#### 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

Odor, Color, Grade: Solid Abrasive Product

General Physical Form: Solid

Autoignition temperatureNot ApplicableFlash PointNot ApplicableFlammable Limits - LELNot ApplicableFlammable Limits - UELNot ApplicableBoiling pointNot ApplicableDensityNot ApplicableVapor DensityNot Applicable

Vapor Pressure Not Applicable

Specific GravityNo Data AvailablepHNot ApplicableMelting pointNot ApplicableSolubility In WaterNot Applicable

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: None known

**Hazardous Polymerization:** Hazardous polymerization will not occur.

# **Hazardous Decomposition or By-Products**

SubstanceConditionCarbon monoxideNot SpecifiedCarbon dioxideNot Specified

**Hazardous Decomposition:** Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

# **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: Since regulations vary, consult applicable regulations or authorities before disposal.

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

## **SECTION 14:TRANSPORT INFORMATION**

Not regulated per U.S. DOT, IATA or IMO.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

# **SECTION 15: REGULATORY INFORMATION**

#### US FEDERAL REGULATIONS

Contact 3M for more information.

#### MATERIAL SAFETY DATA SHEET 3M<sup>TM</sup> Abrasive Product, 340D P40-P120 07/29/09

#### 311/312 Hazard Categories:

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

#### STATE REGULATIONS

Contact 3M for more information.

### **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.

WHMIS: Hazardous

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: 1 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.

No revision information is available.

DISCLAIMER: 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.

3M MSDSs are available at www.3M.com