



## MATERIAL SAFETY DATA SHEET

**MATERIAL SAFETY DATA SHEET** - Complies with ANSI Z400.1 Draft Standard for the Preparation of Material Safety Data Sheets, Copyright 1991, Chemical Manufacturers Association. May be used to comply with U.S. Department of Labor OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standards must be consulted for specific requirements.

Date : 05/22/2003

### 3M Colorquartz Brand Aggregate

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Colorquartz brand aggregate

**COMPANY IDENTIFICATION**

3M  
Industrial Mineral Division  
3M Center  
St. Paul, MN

**EMERGENCY / TECHNICAL NUMBERS**

(800) 364-3577  
(651) 737-6501

**CHEMTREC:**

55144-1000 (800) 424-9300

**PRODUCT INFORMATION:** MSDS Requests and Product Information: (800) 364-3577

**PRODUCT USE:** Industrial use

**SPECIAL NOTES:** Further information is available on the internet at "http://www.mmm.com" or "http://www.3M.com"

#### 2. COMPOSITION / INFORMATION INGREDIENTS

COMPONENTS	CAS No.	OSHA Exposure Limits (PEL)	ACGIH Recommended Limits (TLV)	Percent by Weight
Quartz	14808-60-7	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	94-97.5
Cobalt Compounds	none	n/a	0.02 mg/m <sup>3</sup> (Table A3)	0-2.7
Water (H2O)	7732-18-5	0 mg/m <sup>3</sup>	0 mg/m <sup>3</sup>	0-1.1 (typ. 0.955)
Carbon Black Extracts	none	n/a	n/a	<0.9
Sodium Silicate	1344-09-8	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	<5
Rutile Titanium Dioxide	1317-80-2	10 mg/m <sup>3</sup> (Table Z-1A)	10 mg/m <sup>3</sup>	(Table A4) <3
Chromium Oxide (Trivalent Chromium)	1308-38-9	0.5 mg/m <sup>3</sup> (Table Z-1)	0.5 mg/m <sup>3</sup> (Table A4)	<0.9
Carbon Black	1333-86-4	3.5 mg/m <sup>3</sup> (Table Z-1)	3.5 mg/m <sup>3</sup> (Table A4)	<0.9
Chromium (III) Compounds	n/a	0.5 mg/m <sup>3</sup> (Table Z-1)	0.5 mg/m <sup>3</sup> (Table A4)	0-2.7
Zinc Chromates	n/a	0.01 mg/m <sup>3</sup> (Table Z-2)	0.1 mg/m <sup>3</sup> (Table A1)	0-2.7
Zirconium Compounds	n/a	5 mg/m <sup>3</sup> (Table Z-1A)	5 mg/m <sup>3</sup> (Table A4)	0-2.7

**COMPOSITION COMMENTS:**

None

#### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Contains a chemical or chemicals which can cause cancer. May cause adverse systemic health effects.

**PRIMARY ROUTE OF ENTRY:** Nasal

**POTENTIAL HEALTH EFFECTS**

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

**SKIN:** Mechanical skin irritation. Signs/symptoms may include abrasion, redness, pain and itching.

**INGESTION:** No adverse health effects are expected from swallowing.

**INHALATION:** Upper respiratory tract irritation. Signs/symptoms may include coughing, sneezing, nasal discharge, headache, hoarseness, nose and throat pain.

**CHRONIC EFFECTS:** Prolonged or repeated exposure, above recommended guidelines, may cause silicosis. Signs/symptoms may include breathlessness, weakness, chest pain, persistent cough, increased amounts of sputum, and heart disease.

#### 4. FIRST AID MEASURES

**SIGNS AND SYMPTOMS OF EXPOSURE**

**EYE:** Pain, redness, tearing, corneal abrasion

**SKIN:** Abrasion, redness, pain, itching

**INGESTION:** Unknown

**INHALATION:** Coughing, sneezing, nasal discharge, headache, hoarseness, nose and throat pain

**FIRST AID PROCEDURES**

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

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

**INGESTION:** 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.

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



**3M Colorquartz Brand Aggregate - MATERIAL SAFETY DATA SHEET** 05/22/2003

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES:** Nonflammable

**FLASH POINT / METHOD USED:** Not Applicable

**AUTOIGNITION:** Not Applicable

**FLAMMABILITY LIMITS (% by volume in air):** LEL: N/A UEL: N/A

**EXTINGUISHING MEDIA:** Non-combustible. Choose material suitable for surrounding fire.

**NFPA RATINGS:** Health 0; Flammability 0; Reactivity 0

**FIRE FIGHTING INSTRUCTIONS:** None

**UNUSUAL FIRE AND EXPLOSIVE HAZARDS:** Not Applicable

**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.

**COMBUSTION PRODUCTS:** Not Applicable

**6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** Observe precautions from other sections

**CLEANUP MEASURES:** Call 3M-HELPS line for more information on handling and managing the spill. Collect as much of the spilled material as possible. Vacuum or sweep up. WARNING! A motor could be an ignition source and cause flammable gases or vapors or dust in the spill area to burn or explode. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible. 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.

**7. HANDLING AND STORAGE**

**NORMAL STORAGE:** Not Applicable

**HANDLING:** Avoid prolonged or repeated skin contact. For industrial or professional use only. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Use with appropriate local exhaust ventilation. Provide local exhaust ventilation at transfer points.

**RESPIRATORY PROTECTION:** Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half Mask R95 particulate respirator, Half Mask or Full Facepiece air-purifying respirator with N100 particulate filters, Half Facepiece or Full Face air-purifying respirator with P100 particulate filters, Half Facepiece or Full Face air-purifying respirator with P95 particulate filters, Half Facepiece or Full Face 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.

**EYE AND FACE PROTECTION:** Not applicable. Avoid eye contact. The following eye protection(s) are recommended: Safety Glasses with side shields.

**SKIN AND HAND PROTECTION:** Avoid prolonged or repeated skin contact. Gloves not normally required.

**PREVENTION OF SWALLOWING:** Not applicable

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL DESCRIPTION:** Granular solid, (typical particle size 12-60 mesh [0.25-1.7mm]), various colors

**ODOR:** Odorless

**AUTOIGNITION TEMPERATURE:** N/A

**DENSITY:** No Data Available

**FLASH POINT:** None

**VAPOR PRESSURE (mm Hg):** N/A

**VAPOR DENSITY (AIR = 1):** N/A

**BOILING POINT:** N/A

**EVAPORATION RATE (BUTYL ACETATE = 1):** N/A

**VOLATILE ORGANIC COMPOUNDS:** N/A

**VISCOSITY:** N/A

**MELTING POINT:** None

**SOLUBILITY:** Insoluble in water

**SPECIFIC GRAVITY (H2O = 1):** 2.6-2.7

**pH:** N/A

**10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable

**CONDITIONS TO AVOID:** None known

**HAZARDOUS DECOMPOSITION PRODUCTS:** 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.

**HAZARDOUS POLYMERIZATION:** Hazardous polymerization will not occur

**11. TOXICOLOGICAL INFORMATION**

**CARCINOGENICITY:** Contains a chemical or chemicals which can cause cancer. May cause adverse systematic health effects.

**IARC MONOGRAPHS:** Carbon Black, CAS No.: 1333-86-4, Group 2B; Carbon Black Extracts, CAS No.: none, Group 2B; Cobalt Compounds, CAS No.: none, Group 2B; Quartz, CAS No.: none, Group 1. Quartz is registered as a known human carcinogen with the National Toxicology Program (Carcinogens)

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



## 3M Colorquartz Brand Aggregate - MATERIAL SAFETY DATA SHEET 05/22/2003

### 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** Not determined

**CHEMICAL FATE INFORMATION:** Not determined

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Dispose of waste product in a sanitary landfill. AS a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

**EPA HAZARDOUS WASTE NUMBER (RCRA):** Not regulated

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

### 14. TRANSPORTATION INFORMATION

**ID NUMBER(S):**

98-0111-1270-7, 98-0111-1271-5, 98-0111-1272-3, 98-0111-1273-1, 98-0111-1274-9, 98-0111-1275-6, 98-0111-1276-4, 98-0111-1279-8, 98-0111-1286-3, 98-0111-1287-1, 98-0111-1291-3, 98-0111-1295-4, 98-0111-1296-2, 98-0111-1297-0, 98-0111-1298-8, 98-0111-1299-6, 98-0111-1466-1, 98-0111-1467-9, 98-0111-1468-7, 98-0111-1469-5, 98-0111-1470-3, 98-0111-1471-1, 98-0111-1472-9, 98-0111-1473-7, 98-0111-1474-5, 98-0111-1475-2, 98-0111-1476-0, 98-0111-1477-8, 98-0111-1478-6, 98-0111-1479-4, 98-0111-1480-2, 98-0111-1481-0, 98-0111-1500-7, 98-0111-1506-4, 98-0111-1507-2, 98-0111-1508-0, 98-0111-1509-8, 98-0111-1554-4, 98-0111-1555-1, 98-0111-1556-9, 98-0111-1557-7, 98-0111-1592-4, 98-0111-1593-2.

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

**HAZARD CLASS:** N/A

**UN/NA NUMBER:** N/A

**EMERGENCY RESPONSE NUMBER:** 1-800-364-3577 or 651-737-6501 (24 hours).

### 15. REGULATORY INFORMATION

**FEDERAL REGULATIONS:** Contact 3M for more information.

**SECTIONS 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 this section and 40 CFR part 372 (EPCRA) include: chromium (III) compounds (no CAS No., 0-2.7% by weight), zinc compounds (no CAS No., 0-2.7% by weight), cobalt compounds (no CAS No., 0-2.7% by weight).

**STATE REGULATIONS:** Contact 3M for more information.

California Proposition 65: carbon black extracts (no CAS No., classification: carcinogen), quartz (no CAS No., classification: carcinogen). WARNING: these substances contain a chemical which can cause cancer.

**INVENTORIES:** Contact 3M for more information.

The components of this product are listed on the Canadian Domestic Substances List. The components of this product are in compliance with the chemical notification requirements of TSCA.

**INTERNATIONAL REGULATIONS:** Contact 3M for more information.

**ADDITIONAL INFORMATION:** Not California Code of Regulations (CCR) Title 22 hazardous waste.

### 16. OTHER INFORMATION

Originally prepared by: Minnesota Mining and Manufacturing Company (3M), 2001, to meet the U.S. OSHA Hazard communication standard 29 CFR 1910.1200.