

SAFETY DATA SHEETS (SDS)

1. PRODUCT IDENTIFICATION

PRODUCT NAME: BROWN FUSED ALUMINUM OXIDE

SYNONYMS: Brown Alox, Mulgrit Brown Alox, BFA, "A" Abrasive, Alodur, Alpha Alumina, Alundum, BFA, Blasting Media, Duralum, Blastite, Dynablast

FORMULA: Al_2O_3 (>92%)

RECOMMENDED USES: For Bonded Abrasives and General Industry Applications such as; grinding, deburring, snagging, and cutting of various materials. As a Blasting Grain it is suitable for wet or dry surface preparations. Microgrit Powders are used for micro blasting, precision lapping, fine grit grinding, break lining fillers, tumbling, polishing compounds, etc.

COMPANY: Graystar LLC
ADDRESS: 9 Simmonsville Road
Bluffton, SC 29910
PHONE: 843-815-5600

2. HAZARD IDENTIFICATION

HAZARD CLASSIFICATION:

- Non-flammable brown solid grain or powder that is non-combustible and is stable.
- Abrasive particulate may cause minor Eye Irritation and/or Skin Irritation.
- Specific Target Organ Toxicity - May cause damage to lungs through prolonged or repeated exposure to dust.
- Titanium Dioxide (TiO_2) component is suspected of causing cancer via inhalation.



Warning

HAZARD STATEMENTS:

- Harmful if swallowed.
- May cause minor skin or eye irritation. Particulate may scratch cornea or cause other mechanical eye injury.
- Inhaled; May cause respiratory irritation through single use, or cause damage to lungs through prolonged or repeated exposure to concentrations in excess of the PEL or TVL without respiratory protection. This may also decrease the ability of the lungs to clear particulate matter which may cause shortness of breath and increase susceptibility to respiratory disease. Minor component titanium dioxide is suspected of causing cancer via inhalation.

PREVENTION:

- Wash hands thoroughly after use.
- Wear protective gloves and eye/face protection.
- Do not breathe dust. Do not use compressed air or dry sweeping to remove dust from work areas.
- Wear respiratory protection for concentrations in excess of the PEL or TVL.
- Store in dry area in closed containers.
- Dispose of according to applicable federal, state and local regulation.

FIRST AID:

- **If Swallowed:** Call doctor if you feel unwell.
- **If on Skin:** Wash with soap and water. Seek medical advice if symptoms persist.
- **If in Eyes:** Flush with warm water for 15 minutes (remove contacts if possible). Seek medical attention if symptoms persist.
- **If Inhaled:** If breathing is difficult - Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms or feels unwell - Seek immediate medical attention.

3. COMPOSITION / INFORMATION ON INGREDIENTS
--

Typical

Ingredient	CAS#	Weight(%)	PEL-OSHA (mg/m³)	TLV-ACGIH (mg/m³)	Carcinogen (Y/N)
Alumina (Al ₂ O ₃)	1344-28-1	92 - 96	10*	10	No
Titanium Dioxide (TiO ₂)	13463-67-7	1 - 4	15	10	Yes**
Silicon dioxide (SiO ₂)	7631-86-9	0 - 2	16		No
Iron Oxide (Fe ₂ O ₃)	1309-37-1	0 - 1.5	10	5	No
* Respirable Fraction			5	5	

** Titanium Dioxide is suspected of causing cancer via inhalation (Carc.2 H351)

Materials are regulated under OSHA 29 CFR 1900.1200, Hazard Communication Standard.

Source of exposure limit data; ACGIH Threshold Limit Values; (OSHA Tables Z-1-A, Z-2, Z-3)

All ingredients are listed under TSCA.

4. FIRST-AID MEASURES

EYES: Flush eyes with lukewarm water for 15 minutes, opening and closing eyelids to ensure adequate rinsing. If redness, irritation, pain, or tearing occurs, seek medical attention.

SKIN: Wash contaminated area with soap and water. Wash contaminated clothing. Seek medical attention if symptoms persist.

INHALATION: If inhalation of high concentrations occurs, move to fresh air. If breathing has stopped, a certified professional should give CPR. Seek immediate medical attention.

INGESTION: Do not induce vomiting unless suggested by a doctor. Seek medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not Applicable

FLAMMABLE LIMITS: LEL: Not Applicable UEL: Not Applicable

AUTO IGNITION TEMPERATURES: Not Applicable.

EXTINGUISHING MEDIA: Use media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARDS: Non-flammable, non-combustible. Product will not burn.

HAZARDOUS DECOMPOSITION PRODUCTS: None

FIRE FIGHTING INSTRUCTIONS: Firefighters should wear a NIOSH/MSHA approved full-faced self-contained breathing apparatus (SCBA) operated in positive pressure mode, and full turnout or bunker gear.

NFPA CLASSIFICATION:

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

6. ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unauthorized and/or unprotected personnel. Avoid dust generation. Water mist may be added as necessary to control the level of airborne dusts. Respiratory protection for clean-up personnel depends on the level of exposure anticipated. (See Section 8. *EXPOSURE CONTROLS/PERSONAL PROTECTION*). Gently shovel or scoop into clean dry container for later recycle or disposal. Comply with Federal, State and Local regulations regarding reporting of spills and disposal.

7. HANDLING AND STORAGE

HANDLING: Prevent formation of dust, and avoid dust inhalation. Use only in well ventilated areas. Any deposit of dust that cannot be avoided must be regularly removed. DO NOT use compressed air or dry sweeping to remove dust from work area. Wash thoroughly with plenty of water.

STORAGE: Store in dry area in closed containers. Protect from high humidity and water.

Store receptacle in a well ventilated area.

Store away from oxidizing agents. Store away from foodstuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Under normal working conditions below acceptable exposure guidelines, none is required. For concentrations above the PEL but less than 10X the PEL, a NIOSH/OSHA approved dust mist respirator should be worn. Appropriate respirator selection will be dependent upon the magnitude of exposure and should be selected in accordance with 29 CFR 1910.134 (See [Section 3](#) for PEL (OSHA) and TLV (ACGIH) exposure limits).

SKIN PROTECTION: Protective gloves, as needed, to prevent skin contact.

EYE PROTECTION: Safety-glasses with side shields or goggles to prevent dust and particles from entering the eye. See OSHA 29 CFR 1910.133.

OTHER: Under dusty conditions, employees should wear coveralls or other suitable work clothing. Contaminated clothing must be vacuumed before removal. DO NOT REMOVE dust from clothing by blowing or shaking. Keep away from foodstuff, beverages and feed.

ENGINEERING CONTROLS: Use general ventilation. Local exhaust may be necessary for processes which generate large quantities of airborne dust. Keep exposures below applicable OSHA PEL's and ACGIH-TLV's.

9. PHYSICAL AND CHEMICAL PROPERTIES

Formula	Al ₂ O ₃
Boiling Point	Not Applicable
Melting Point	2050°C
Specific Gravity (H ₂ O = 1)	3.95
Percent Volatile	0
Evaporation Rate	None
Solubility in Water	Insoluble
Solubility in Alcohol	None
pH (10% slurry)	Not applicable
Appearance/Odor	Brown solid or powder/odorless

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal ambient conditions of temperature and pressure.

THERMAL DECOMPOSITION: No decomposition if used and stored to specifications.

POSSIBLE HAZARDOUS REACTIONS: Reacts with strong acids, oxidizing agents, and with strong alkali.

CONDITIONS TO AVOID & INCOMPATIBLE MATERIALS: No further relevant information available.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic metal oxide smoke.

11. TOXICOLOGICAL INFORMATION

EYE: Particulate matter may cause physical injury to the eye.
SKIN: May cause minor irritation.
INHALATION: May cause respiratory irritation through single use.
May cause damage to lungs or pulmonary disease through prolonged/repeated exposure to dust.
Minor component titanium dioxide (TiO₂) is suspected of causing cancer via inhalation.
INGESTION: Ingestion of large quantities may result in gastrointestinal irritation and eventually interference with phosphate absorption which results in rickets.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Generally not hazardous for water.
Persistence & Degradability: Inorganic, is not eliminable from water by means of biological cleaning processes.
Bioaccumulative Potential: Does not accumulate in organisms.
Mobility In Soil: No further relevant information available

13. DISPOSAL CONSIDERATIONS

Dispose of according to applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

U.S. Department of Transportation (D.O.T.): Not Regulated as a Hazardous Material
D.O.T. HAZARD CLASS (49 CFR 172.101): N/A
D.O.T. PROPER SHIPPING NAME (49 CFR 172.101): N/A
D.O.T. LABELS REQUIRED (49 CFR 172.101): N/A
D.O.T. PLACARDS REQUIRED: N/A
IMDG: **Not Regulated under IMDG (is not hazardous cargo for sea transportation).**

15. REGULATORY INFORMATION

TSCA: Aluminum Oxide is listed on the TSCA (Toxic Substance Control Act) inventory under CAS# 1344-28-1.

Canadian WHMIS: D2B



EPCRA Section 302 (EHSs): This product does not contain ingredients subject to reporting requirements of 40 CFR Part 355, Appendices A and B (Extremely Hazardous Substances).

CERCLA, Section 304: This product does not contain ingredients subject to state and local reporting under Section 304 of SARA Title III as listed in 40 CFR Part 302 Table 302.4.

SARA 313 REPORTING REQUIREMENTS: This product does not contain ingredients subject to the reporting requirements of Section 313 SARA, and Section 5607 of the Pollution Prevention Act.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and by definition meets the requirements of the following category: *Acute Health Hazard*

16. OTHER INFORMATION & LAST REVISION DATE

KEY:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
DOT	Department of Transportation
IARC	International Agency for Research on Cancer
IMDG	International Maritime Dangerous Goods
MSHA	Mine Safety and Health Administration
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
SARA	Superfund Amendment and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act

DISCLAIMER:

Although reasonable care has been taken in the preparation of the information contained herein, the originator and **Graystar*LLC** extends no warranties, makes no representation and assumes no responsibility as to the accuracy of suitability of such information for application to the purchaser's intended purposes or for consequences of its use.

LAST REVISION DATE: January 05, 2016



SILICON CARBIDE POWDER UK\SiC

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision Date: 03/18/2015

Supersedes: 02/10/2014

Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product Identifier

Product Name: SILICON CARBIDE POWDER UK\SiC F-, P-, JIS-

Synonyms: Silicon Carbide, FEPA-F, P-Grade, JIS-Grade

Note: The hazards on this document apply only to conditions in which dust is suspended in the air. If proper ventilation is maintained and dust is kept to a minimum, the hazards are not expected to apply. See section 8 for Exposure Controls.

1.2. Intended Use of the Product

Use of the substance/mixture: Lapping/Grinding/Polishing

1.3. Name, Address, and Telephone of the Responsible Party

Company

UK Abrasives, Inc.
3045 MacArthur Blvd.
Northbrook, IL 60062
(847) 291-3566

1.4. Emergency Telephone Number

Emergency Number : (847) 291-3566

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Comb. Dust

2.2. Label Elements

GHS-US Labeling

Signal Word (GHS-US) : Warning

Hazard Statements (GHS-US) : May form combustible dust concentrations in air

2.3. Other Hazards

Other Hazards Not Contributing to the Classification: Contact with particles may cause mechanical irritation of the skin with itching, redness, swelling, or rash; or irritation of the eyes with tearing, pain, or blurring of vision. Inhalation of dried-down material may cause irritation of the upper respiratory passages.

2.4. Unknown Acute Toxicity (GHS-US) Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Silicon carbide	(CAS No) 409-21-2	97 - 100	Not classified
Graphite	(CAS No) 7782-42-5	0 - 3	Combustible dust may form in air

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: Go into open air and ventilate suspected area. If you feel unwell, seek medical advice.

First-aid Measures After Skin Contact: The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. Do not rub; the dust is abrasive and may cause mechanical irritation.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries After Inhalation: Dust from this product may cause irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: Dust may cause eye irritation.

Symptoms/Injuries After Ingestion: May be harmful if swallowed.

SILICON CARBIDE POWDER UK\SiC

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Chronic Symptoms: Long term exposure to graphite dust (a component of this product) may cause Pneumoconiosis (Black lung disease), which causes shortness of breath that gets progressively worse and may result in lung damage.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures. Emits toxic fumes under fire conditions.

Explosion Hazard: Product itself is not explosive but if dust is generated, dust clouds suspended in air can be explosive.

5.3. Advice for Firefighters

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe dust. Avoid contact with eyes, skin, clothing. Avoid generating dust. Keep away from open flames, hot surfaces and sources of ignition. No smoking.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Eliminate ignition sources.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. If possible, stop flow of product.

6.2. Environmental Precautions

No additional information available

6.3. Methods and Material for Containment and Cleaning Up

Methods for Cleaning Up: Avoid generation of dust during clean-up of spills. Use only non-sparking tools.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific End Use(s)

Lapping/Grinding/Polishing

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Silicon carbide (409-21-2)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.1 fibers/cm ³ (as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
Graphite (7782-42-5)		
USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (all forms except graphite fibers)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	2.5 mg/m ³ (natural)
USA IDLH	US IDLH (mg/m ³)	1250 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ (synthetic)

SILICON CARBIDE POWDER UK\SiC

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.2. Exposure Controls

Appropriate Engineering Controls

: Provide adequate ventilation to minimize dust concentrations. Take precautionary measures against static discharges. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment

: Gloves. Safety glasses. Dust formation: dust mask.



Hand Protection

: Impermeable protective gloves.

Eye Protection

: Chemical goggles or safety glasses.

Skin and Body Protection

: Wear suitable protective clothing.

Respiratory Protection

: Use NIOSH-approved dust mask if dust has the potential to become airborne.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Black/Green Granular Material or Powder
Odor	: Odorless
Odor Threshold	: No data available
pH	: No data available
Relative Evaporation Rate (butylacetate=1)	: No data available
Melting/Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: No data available
Relative Density	: 3.2 (water = 1)
Solubility	: Insoluble
Partition coefficient: n-octanol/water	: No data available
Viscosity	: No data available
Explosive Limits	: Not applicable
9.2. Other Information	
Particle Size	: From 8 to 1200 mesh

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:** Product itself is not explosive but if dust is generated, dust clouds suspended in air can be explosive.
- 10.2 Chemical Stability:** The product is stable at normal handling and storage conditions.
- 10.3 Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4 Conditions to Avoid:** Avoid creating or spreading dust. Sparks, heat, open flame and other sources of ignition.
- 10.5 Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.
- 10.6 Hazardous Decomposition Products:** Carbon oxides (CO, CO₂). Silicon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

SILICON CARBIDE POWDER UK\SiC

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Carcinogenicity: Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Dust from this product may cause irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: May be harmful if swallowed.

Chronic Symptoms: Long term exposure to graphite dust (a component of this product) may cause Pneumoconiosis (Black lung disease), which causes shortness of breath that gets progressively worse and may result in lung damage.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity No additional information available

12.2. Persistence and Degradability Not established.

12.3. Bioaccumulative Potential Not established.

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/IMDG/DOT

14.1. UN Number Not regulated for transport

14.2. UN Proper Shipping Name Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Silicon carbide (409-21-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Graphite (7782-42-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 US State Regulations

Silicon carbide (409-21-2)

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) List

Graphite (7782-42-5)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New York - Occupational Exposure Limits - Mineral Dusts

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: OTHER INFORMATION

Revision date : 02/10/2014

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Comb. Dust	Combustible Dust
Comb. Dust	May form combustible dust concentrations in air

This data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

SDS US (GHS HazCom)



SAFETY DATA SHEET

Date revised: 06/16/16

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: **Fossil Shell Flour**® Formula: **SIO₂**
Generic Name: Diatomaceous Earth EINECS: 310-127-6
Chemical Family: Silicates CAS: 61790-53-2
Manufacturer: Perma-Guard, Inc.
Address: 60 N Cutler Drive, Unit 202 **Emergency:** Chemtrec USA (800) 424-9300
North Salt Lake State, UT Zip: 84054 International: +01 (703) 527-3887 Collect

2. HAZARD IDENTIFICATION

2.1 GHS Classification:

Physical and chemical hazards: No Classification
Human Health: No Classification
Environment: No Classification

2.2 Label elements:

Pictogram None
Signal Word None
Hazard Statement None
Precautionary Statements None

Summary: Prolonged and repeated exposure to excessive concentrations of this product's dust or any nuisance dust can cause chronic pulmonary disease. Dust contact with eyes may cause temporary scratchiness or redness. **This product has not been classified as a carcinogen by NTP or IARC.**

3. COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENT NAME:	CAS Number:	%
NATURAL DIATOMACEOUS EARTH (DE) Diatomaceous Earth AMORPHOUS SILICA	61790-53-2	100 (uncalcined) 6 mg/M3 TOTAL DUST, MSHA 10 mg/M3 TOTAL DUST, ACGIH

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. Drink water to clear throat. Blow nose to clear dust.
Eyes: Flush eyes with large quantities of water. If irritation persists contact a physician.
Skin Contact: NA **Skin Absorption:** NA **Ingestion:** NOT HAZARDOUS WHEN INGESTED

5. FIRE FIGHTING MEASURES

Flash Point: Non-Flammable **Flammable Limits:** LEL: NA UEL: NA
Extinguishing Media: NA **Special Fire Fighting Procedures:** None
Unusual Fire and Explosion Hazards: None **Auto Ignition Temperature:** None
NFP Flammable/Combustible Liquid Classification: NA

6. ACCIDENTAL RELEASE MEASURES

Procedures for Spill/Leak: Vacuum Clean dust with equipment fitted with HEPA filter. Use a dust suppressant such as water if sweeping is necessary.

7. HANDLING AND STORAGE

Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Seal broken bags immediately Continue to follow all SDS/Label warnings when handling empty containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Goggles: Goggles or Safety Glasses with Side Shields are recommended .
Gloves: Not normally required. **Respirator:** <10X PEL. Use an N95 Quarter or half mask respirator: <50X PEL, use a full face respirator equipped the N95 filters, <200X PEL, use a powder air purifying respirator (positive pressure) with N95 filters, Type C supplied air respirator (Continuous flow mode).
Ventilation: Use Sufficient Natural or Mechanical ventilation to keep dust level below PEL.
MSHA PEL—6 mg/M3 total nuisance dust (uncalcined Diatomaceous Earth)
ACGIH TLV– 10 mg/M3 Total Dust

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor: fine white powder, no odor **Boiling Point:** NA
Vapor Pressure: NA **Water Solubility (%):** NA **Evaporation rate:** NA
Melting Point: ND **Vapor Density:** NA **Specific Gravity (water =1):** 2.2
% Volatile by Volume: NIL **PH:** 7.5-9.0

10. STABILITY and REACTIVITY

Material is Stable Hazardous Polymerization cannot occur
Chemical incompatibilities: Hydrofluoric Acid **Conditions to Avoid:** None in designed use

11. TOXICOLOGY INFORMATION

Summary: Prolonged and repeated exposure to **excessive** concentrations of this product’s dust, or any nuisance dust, can cause chronic pulmonary disease. Dust contact with eyes may cause temporary scratchiness or redness. This product **has not** been classified as a carcinogen by NTP or IARC.

12. ECOLOGICAL INFORMATION

Generally considered chemically inert in the environment. Used material that has become contaminated may have significantly different characteristics based on the contaminants and should be evaluated accordingly.

13. DISPOSAL CONSIDERATIONS

Waste is not hazardous as defined by RCRA (40 CFR 261). Other state and local regulations may vary, consult local agencies as needed. Used material that has become contaminated may have significantly different characteristics based on the contaminants and should be evaluated accordingly.

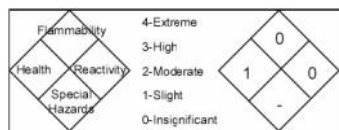
14. TRANSPORTATION INFORMATION

D.O.T. Proper Shipping Name: Earth, Diatomaceous, Crude or Ground.
Hazard Classification: Not Restricted **Reportable quantities:** NA **UN (United Nations):** NA
(North America) Number: NA

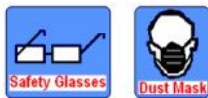
15. REGULATORY INFORMATION

OSHA: Hazard Communications Standard, 29 CFR 1910.1200: Material considered hazardous, see section 3
RCRA: This material is not defined as hazardous waster per 40 CFR 261
TSCA: This material is listed in the TSCA inventory and is not otherwise regulated by TSCA Sec 4,5,6,7 or 12
CERCLA: Material is not reportable under CERCLA, local requirements may vary
SARA: 311/312 hazard categories-Immediate and delayed health, 313 reportable ingredients: None
CANADA: This product is listed on the DSL
CALIFORNIA: Proposition 65, Not Applicable
EU Regulation (EC) N ° 1272/2008: This material is labeled and supported accordingly with GHS standards
European Existing Chemicals (EINECS): All of the components of this product are included on EINECS

16. OTHER INFORMATION



NFPA FIRE HAZARD SYMBOL™
 See NFPA 704 for detailed explanation.



HEALTH	*	1
FLAMMABLE		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		E