



Safety Data Sheet

Abrade-Away

SECTION 1. IDENTIFICATION

Product Identifier Abrade-Away
Other Identification Iron Silicate Granules
Product Family Iron Silicate
Recommended Use Blasting media
Restrictions on Use Use only as directed
Manufacturer / Supplier Custom Abrasives LLC
215 Industrial Ave B, Houma, LA 70363
985-879-2827
Emergency Phone 800-627-2167 24 hours

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Carcinogenicity - Category 1A; Specific target organ toxicity (repeated exposure) - Category 1

GHS Label Elements



Danger

May cause cancer or damage to respiratory system through prolonged or repeated exposure by inhalation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | % | Other Identifiers |
|--------------------------|------------|--------|--------------------------------|
| Iron Oxide | 1309-37-1 | 52-60 | Fe ₂ O ₃ |
| Fused Silica (Amorphous) | 60676-86-0 | 32-37 | SiO ₂ |
| Aluminum oxide | 1344-28-1 | 3-6 | Al ₂ O ₃ |
| Calcium oxide, reacted | 1305-78-8 | 1-3 | cao |
| Magnesium oxide | 1309-48-4 | 1-2 | MgO |
| Zinc | 1314-13-2 | <1.0 | Zn |
| Silica, quartz | 14808-60-7 | 0.3 | SiO ₂ |
| Arsenic | 7440-38-2 | <0.1 | As |
| Lead | 7439-92-1 | <0.05 | Pb |
| Beryllium | 7440-41-7 | <0.001 | Be |
| Cadmium | 7440-43-9 | <0.001 | Cd |

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First-aid Measures

Inhalation

Move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

If eye irritation persists, get medical advice/attention.

Ingestion

Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. Do not induce vomiting. Call a Poison Centre or doctor if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If in eyes:

May cause moderate to severe irritation.

May irritate or cause inflammation or pulmonary fibrosis of the respiratory system.

Immediate Medical Attention and Special Treatment

Target Organs

Respiratory system.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

Not applicable.

Specific Hazards Arising from the Chemical

Does not burn.

This product presents no unusual hazards in a fire situation.

Not known to generate any hazardous decomposition products in a fire.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up.

Environmental Precautions

It is good practice to prevent releases into the environment.

Although this product is not classified as an environmentally hazardous material, large or frequent spills may cause potential problems. Avoid runoff to waterways and sewers.

Methods and Materials for Containment and Cleaning Up

Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

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Precautions for Safe Handling

Avoid generating dusts. Wear personal protective equipment to avoid direct contact with this chemical. Avoid repeated or prolonged skin contact with product or with contaminated equipment/surfaces.

It is good practice to avoid breathing product; avoid skin and eye contact and wash hands after handling. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area. Remove contaminated clothing and protective equipment before entering eating areas or leaving work area.

Conditions for Safe Storage

Store in an area that is: dry.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control Parameters**

| Chemical Name | ACGIH TLV® | | OSHA PEL | | AIHA WEEL | |
|---------------------------|-----------------------|------|----------------|---------|-----------|-----|
| | TWA | STEL | TWA | Ceiling | 8-hr TWA | TWA |
| Iron Oxide | 5 mg/m3 * A4 | | 10 mg/m3 * | | | |
| Aluminum oxide | 1 mg/m3 * A4 | | 5 mg/m3 * | | | |
| Calcium oxide, reacted | 2 mg/m3 | | 5 mg/m3 | | | |
| Magnesium oxide | 10 mg/m3 * A4 | | 15 mg/m3 | | | |
| Zinc | 2 mg /m3 * | | 5 mg /m3 * | | | |
| Silica, quartz | 0.025 mg/m3 * A2 | | | | | |
| Arsenic | 0.01 mg/m3 A1 | | 0.01 mg/m3 | | | |
| Beryllium | 0.00005 mg/m3 * A1 | | 0.002 mg/m3 | | | |
| Cadmium | 0.002 mg/m3 * A2 | | 0.005 mg/m3 | | | |
| Lead | 0.05 mg/m3 A3 | | | | | |
| Fused Silica (Amorphous) | | | 0.1 mg/m3 * | | | |

* Respirable total dust, OSHA (PEL)= 15 mg/m3 crystalline Silica, ACGIH, TWA , 0.10 mg / m3 (ACGIH), 0.025 mg /m3, respirable.

Appropriate Engineering Controls

Do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures**Eye/Face Protection**

Wear chemical safety goggles and face shield when contact is possible. Do not get in eyes.

Skin Protection

Avoid repeated or prolonged skin contact. Always wear insulated protective clothing, if contact is possible.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with N95 or higher rating filter(s).

In conditions where the levels of airborne dust exceed the capabilities of the above referenced respirators, a supplied-air respirator may be necessary.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

| | |
|----------------------------------------------------|------------------------------------------------|
| Appearance | Black shiny crystals. |
| Odor | Faint |
| Odor Threshold pH | Not applicable |
| Melting Point/Freezing Point | Not applicable |
| Initial Boiling Point/Range | Not applicable (freezing) |
| Flash Point | Not applicable |
| Evaporation Rate | Not applicable |
| Flammability (solid, gas) | Not applicable |
| Upper/Lower Flammability or Explosive Limit | Not applicable |
| Vapor Pressure | Not applicable (upper); Not applicable (lower) |
| Vapor Density (air=1) | Not applicable |
| Relative Density (water = 1) | Not available |
| Solubility | Not applicable in water |
| Auto-ignition Temperature | Not applicable |
| Other Information | Solid |
| Physical State | |

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Not applicable.

Conditions to Avoid

Generation of dust.

Incompatible Materials

Strong acids (e.g. hydrochloric acid).

Strong oxidizing agents (e.g. perchloric acid).

Hazardous Decomposition Products

Not applicable.

SECTION 11. TOXICOLOGICAL INFORMATION

High concentrations of lead have been known to cause harmful effects to the central nervous system.

Concentrations of Crystalline Silica (quartz), Arsenic, Lead, Beryllium and Cadmium are very low in this product.

Likely Routes of Exposure

Inhalation. Skin contact. Eye contact. Ingestion.

Acute Toxicity

| Chemical Name | LCS0 | LDS0 (oral) | LDS0 (dermal) |
|------------------------|---------------|----------------------|---------------|
| Iron Oxide | Not available | > 10,000 mg/kg (rat) | Not available |
| Aluminum oxide | Not available | > 5,000 mg/kg (rat) | Not available |
| Calcium oxide, reacted | Not available | > 2,000 mg/kg (rat) | Not available |

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| | | | |
|--------------------------|---------------------------------|--------------------|---------------|
| Magnesium oxide | Not available | 810 mg/kg (mouse) | Not available |
| Zinc | > 5.7 mg/m ³ (mouse) | 5,000 mg/kg (rat) | Not available |
| Silica, quartz | Not available | 22,500 mg/kg (rat) | Not available |
| Arsenic | Not available | 763 mg/kg (rat) | Not available |
| Beryllium | Not available | Not available | Not available |
| Cadmium | Not available | 2,330 mg/kg (rat) | Not available |
| Lead | Not available | 5 mg/kg (rat) | Not available |
| Fused Silica (Amorphous) | Not available | Not available | Not available |

Skin Corrosion/Irritation

May cause irritation.

Serious Eye Damage/Irritation

May cause irritation or injury due to mechanical abrasion.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May irritate or cause inflammation or pulmonary fibrosis of the respiratory system.

Skin Absorption

May cause irritation.

Ingestion

May cause irritation.

May lead to absorption of heavy metals into the body.

Aspiration Hazard

May be drawn into the lungs (aspirated) if swallowed or vomited.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Long term inhalation of dusts can attribute to risk of lung diseases. Inhalation of respirable silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of silica dust may cause serious health effects which can include the following; Silicosis, Accelerated Silicosis, Acute Silicosis, Cancer, Autoimmune Disease, Tuberculosis and Kidney Disease.

Respiratory and/or Skin Sensitization

May cause irritation on prolonged contact.

Carcinogenicity

Crystalline Silica (quartz), Arsenic, Beryllium, Cadmium and Lead have been determined as carcinogens.

Reproductive Toxicity

Development of Offspring

Inorganic lead compounds are considered to cause developmental toxicity.

Sexual Function and Fertility

Inorganic lead compounds are considered to cause reproductive toxicity.

Germ Cell Mutagenicity

Inorganic lead compounds are considered to have an effect on mutagenicity.

Interactive Effects

None known.

SECTION 12. ECOLOGICAL INFORMATION

Although this product is not classified as an environmentally hazardous material, large or frequent spills may cause potential problems.

Persistence and Degradability

This product is not biodegradable.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TOG Regulations . Not regulated under US DOT Regulations.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SOS contains all of the information required by the Controlled Products Regulations.

SECTION 16. OTHER INFORMATION

| | |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Phone No. | 800-627-2167 |
| Date of Preparation | August, 2019 |
| Key to Abbreviations | ACGIH® = American Conference of Governmental Industrial Hygienists OSHA = US Occupational Safety and Health Administration HSDB® = Hazardous Substances Data Bank |
| References | CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc. Available from Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). |
| Disclaimer | To the best of our knowledge, the information contained herein is accurate. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Custom Abrasives assumes no liability arising out of the use of this product by others. |

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