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 No.	1-800-627-2167, 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	53-60	Fe2O3
Fused Silica (Amorphous)	60676-86-0	32-37	SiO2
Aluminum oxide	1344-28-1	3-6	Al2O3
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	SiO2
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

SECTION 4. FIRST-AID MEASURES

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.
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.

SECTION 7. HANDLING AND STORAGE

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

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	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					
Fused Silica (Amorphous)	A3		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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

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

Other Information

Physical State	Solid

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	LC50	LD50 (oral)	LD50 (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

Magnesium oxide	Not available	810 mg/kg (mouse)	Not available
Zinc	> 5.7 mg/m3 (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 affect 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.

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 TDG 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 SDS contains all of the information required by the Controlled Products Regulations.

SECTION 16. OTHER INFORMATION

Phone No.	800-627-2167
Date of Preparation	December, 2015
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 can not guarantee that these are the only hazards that exist. Custom Abrasives assumes no liability arising out of the use of this product by others.