



SAFETY DATA SHEET

This Safety Data Sheet meets or exceeds the requirements of the Canadian Controlled Product Regulations (WHMIS)

SECTION I – PRODUCT AND SUPPLIER INFORMATION

Supplier: **Emergency Response Telephone:** **INFOTRAC (800) 535-5053**
Target Products Ltd,
5 Concourse Parkway, Suite 1900
Atlanta, GA 30328

Telephone: 1.604.856.7976

PRODUCT Aluminum Oxide

PRODUCT USE
Abrasives blasting

SECTION II - HAZARD IDENTIFICATION

Hazard-determining components of labeling: Amorphous Silica, Iron Oxide, Aluminum Oxide

2.1 Classification of the substance or mixture

Carcinogen – Category 1A

Eye Irritant – Category 2A

Skin Irritant – Category 2

Acute Toxicity (Oral) – Category 4

Specific Target Organ Toxicity Single Exposure – Category 2 (respiratory)

Specific Target Organ Toxicity Repeat Exposure – Category 1 (respiratory)

2.2a Signal word DANGER!

2.2b Hazard Statements

Causes cancer through chronic inhalation of dust.

Causes serious eye irritation

Causes skin irritation.

Harmful if swallowed.

May cause damage to lungs and kidneys through inhalation of dust.

Causes damage to lungs and kidneys through prolonged or repeated inhalation of dust.

2.2c Pictograms



Do not handle until all safety precautions have been read and understood.

Wear protective gloves, eye protection, and protective clothing.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Do not breathe dust or swallow.

Do not get on skin.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Wash contacted hands, skin and hair thoroughly after handling.

Immediately seek medical advice or attention if symptoms are significant or persist.

Dispose of contents/containers in accordance with all regulations.

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2.3 Additional Information

The intended use of this product is abrasive blasting for cleaning and modification of surfaces. OSHA warns that workers must be protected from hazardous dust levels including toxic metals which may be generated from the underlying substrate and coatings being blasted. Read "OSHA® FactSheet – Protecting Workers from the Hazards of Abrasive Blasting Materials" and other guidance and all applicable regulations. Before use, consider not only the information in this SDS about this product but also the hazards associated with the process and substrate and coatings which may generate hazardous dust.

Ensure that this product is used in compliance with all federal, state/provincial, and local regulations. In most situations, worker safety training plus engineering & administrative controls are required. Establish a comprehensive personal protective equipment (PPE) program including, but not limited to protecting, eyes, face, skin, feet, breathing and hearing.

2.3a HNOC – Hazards not otherwise classified: Not applicable

2.3b Unknown Acute Toxicity: None

SECTION III HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS No.	% by Weight*
Aluminum Oxide	1344-28-1	60-100
Titanium Dioxide	13463-67-7	1-5
Amorphous Silicon Dioxide	7631-86-9	0.1-1
Iron Oxide (Fe ₂ O ₃)	1309-37-1	0.1-1
Silica, Crystalline	7631-86-9	≤ 0.0005

*Composition ranges are provided due to naturally occurring variability.

SECTION IV – FIRST AID MEASURES

4.1 Description of the first-aid measures

General information:

After inhalation: Remove person to fresh air and keep comfortable for breathing.

After skin contact: Rinse skin with water.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing: If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

Inhalation: May cause respiratory tract irritation. May cause damage to lungs and kidneys through inhalation of dust. Causes damage to organs through prolonged or repeated inhalation. This product contains minor amounts of crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

Skin contact: Causes mechanical skin irritation.

Eye Contact: Causes eye irritation if particles or dust get in eye.

Ingestion: Harmful if swallowed. Ingestion of large quantities may cause discomfort and/or distress, nausea or vomiting.

4.3 Indication of immediate medical attention and special treatment needed:

Immediately seek medical advice or attention if symptoms are significant or persist.

SECTION V FIRE FIGHTING MEASURES

5.1 Flammability of the Product: Non-flammable and non-combustible

5.2 Suitable extinguishing agents: Treat for surrounding material

5.3 Special hazards arising from the substance or mixture: None

5.3a Products of Combustion: None

5.3b Explosion Hazards in Presence of Various Substances: Non-explosive in presence of shocks

SECTION VI – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment (See section VIII). Keep unprotected persons away.

6.2 Methods and material for containment and cleaning up:

Do not allow to enter sewers/ surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

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SECTION VII PRECAUTIONS FOR SAFE HANDLING AND STORAGE

7.1 Handling

Ensure that this product is used in compliance with all federal, state/provincial, and local regulations. In most situations, worker safety training plus engineering & administrative controls are required. Establish a comprehensive personal protective equipment (PPE) program including, but not limited to protecting, eyes, face, skin, feet, breathing and hearing. The requirements of workplace and other safety regulations are not limited to the information included on the label and this SDS.

Obtain special instructions before use. NIOSH-certified, type CE, blasting airline respirators with positive pressure blasting helmet are required for all people in the vicinity of blasting operations. The respirator must cover the wearer's head, neck and shoulders. Comply with all US-OSHA and Canadian Respiratory Protection standards. Do not breathe dust or swallow. Do not get on skin. Required personal protection equipment includes but is not limited to: eye/face and hearing protection; long leather gloves; safety shoes; protective clothing/apron. Do not eat, drink, or smoke when using this product. Dust remains in the air after blasting is completed; therefore, continue all safety precautions until the area is clean and ventilated. Prevent inhalation of dust from contaminated clothing and equipment. Wash contaminated clothing before reuse. Wash contacted hands, skin and hair thoroughly after handling.

7.2 Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep out of the reach of children.

SECTION VIII – EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

8.1 Components with limit values that require monitoring at the workplace:

Hazardous Components	CAS No.	PEL (OSHA) mg/M3	TLV (ACGIH) mg/M3
Iron Oxide (Fe2O3)	1309-37-1	10/15/5 (fume/dust/resp)	5 (resp)
Silicon Dioxide	7631-86-9	20 mppcf; (80)/(%SiO2)	5 (resp)
Aluminum Oxide	1344-28-1	15	Not Established
Titanium Dioxide	13463-67-7	10	10
Silica, Crystalline	7631-86-9	0.025	0.025

8.2 Exposure Controls

Do not use compressed air to clean as this will create dust in the air. When collecting wasted and dust for disposal, consider controlling exposure; consider: wind, other activities and number of people in the vicinity. Dust remains in the air after blasting is completed; therefore, continue all safety precautions until the area is clean and ventilated. See regulations and guidance and employ wet collection or HEPA control of waste collection wherever feasible.

8.3 General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Provide accommodations for end-of-shift showers and change areas with separate storage facilities for street clothes, protective clothing and equipment. Keep contaminated clothing and equipment out of the clean change area. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

8.3a Personal protective equipment

Workers who are blasting or exposed to the dust remaining in the air from blasting operations must wear NIOSH-certified, type CE, blasting airline respirator with positive pressure blasting helmet for all people in the vicinity of blasting operations. The respirator must cover the wearer's head, neck and shoulders. Comply with OSHA Respiratory Protection standard. Wear eye/face protection. Wear protective gloves/clothing. Additional required equipment includes, but is not limited to: hearing protection, long leather gloves, aprons and safety boots.

Workers in the area who are not exposed to the dust from blasting (for example, pouring bags of media into a hopper) must wear a NIOSH N-95 particulate respirator, eye protection, and protective gloves/clothing when handling product.

SECTION IX PHYSICAL/CHEMICAL CHARACTERISTICS

General Information

Appearance	Form: Granular Solid Color: White to Yellow Odor: None
pH-value at 20°C (68 °F):	Not applicable
Boiling point/Boiling range:	2230 °C
Flash point:	Not applicable
Auto igniting:	Product is not self-igniting

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Vapor pressure at 21°C (70°F)	Not applicable
Density at 25°C (77 °F):	2.65 g/cm ³ typical
Solubility in / Miscibility with Water:	Insoluble
VOC content:	0 g/L VOC

SECTION X – STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal storage conditions. Keep in dry storage.

10.3 Possibility of hazardous reaction

No dangerous reaction known under conditions of normal use.

10.4 Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

10.5 Incompatible materials

None known

10.6 Hazardous Decomposition or By-products

None known

SECTION XI – TOXICOLOGICAL INFORMATION

11.1 Exposure Routes: Inhalation, skin contact, eye contact, or ingestion.

11.2 Symptoms related to physical/chemical/toxicological characteristics:

Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

Skin contact: May cause mechanical skin irritation.

Eye Contact: Causes serious eye irritation if particles or dust gets in eye.

Ingestion: Ingestion of large quantities may cause discomfort and/or distress.

11.3 Delayed, immediate and chronic effects of short-term and long-term exposure

Short Term

Skin Corrosion/Irritation: Not applicable

Serious Eye Damage/Irritation: Causes serious eye irritation if particles or dust gets in eye

Respiratory Sensitization: Not applicable

Skin Sensitization: Not applicable

Specific Target Organ Toxicity-Single Exposure: (Category 2) May cause respiratory irritation

Aspiration Hazard: Not applicable

Long Term

Carcinogenicity: May cause cancer through chronic inhalation.

Germ Cell Mutagenicity: Not applicable

Reproductive Toxicity: Not applicable

Specific Target Organ Toxicity- Repeated Exposure: (Category 1) Causes damage to lungs through prolonged/repeated exposure

Synergistic/Antagonistic Effects: Not applicable

SECTION XII – ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Other Adverse Effects

No further relevant information available.

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SECTION XIII – DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method

The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is not classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations.

13.2 Other disposal considerations

Uncleaned packaging

Recommendation: Disposal must be made in accordance with local, state and federal regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION XIV – TRANSPORT INFORMATION

	DOT (U.S.)	TDG (Canada)
UN-Number	Not Regulated	Not Regulated
UN proper shipping name	Not Regulated	Not Regulated
Transport Hazard Class(es)	Not Regulated	Not Regulated
Packing Group (if applicable)	Not Regulated	Not Regulated

14.1 Environmental hazards:

Not applicable

14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code

Not applicable

14.3 Special precautions for user

Do not handle until all safety precautions have been read and understood.

SECTION XV – OTHER REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislations specific for the chemical

Canada

WHMIS Classification: Considered to be a D2A hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

15.2 US Federal Information

SARA 302/311/312/313 Components

This product contains chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, 311, 312 or 313.

Sara 311/312 Hazardous Categories

Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactive: No

Aluminum Oxide (1344-28-1)

Sara 313: 1.0% de minimis concentration (fibrous forms)

15.3 State Right to Know Laws

California Prop. 65 Components



WARNING: This product can expose you to chemicals including crystalline silica which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

15.4 Global Inventories

DSL All components of this product are on the Canadian DSL list.

TSCA No.: All constituents are listed in the TSCA inventory.

SECTION XVI – OTHER INFORMATION

Last Updated: 14 January 2019

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

End of SDS