

**MATERIAL SAFETY DATA SHEET****SECTION 1 - PRODUCT IDENTIFICATION AND USE**

Product Identifier	<b>TARGET SPORTSFIELD SAND</b>
Product Use	Inorganic filler
Manufacturer	Supplier
Target Products Ltd.	Target Products Ltd.
9503-87 Avenue	9503-87 Avenue
Morinville, Alberta	Morinville, Alberta
Emergency Telephone Number	Emergency Telephone Number
	(613) 996-6666 (Canutec)

**SECTION 2 - HAZARDOUS INGREDIENTS**

Ingredient	%	CAS Number	LD <sub>50</sub>	LC <sub>50</sub>
Crystalline silica	93	14808-60-7	N/A	N/A

**SECTION 3 - PHYSICAL DATA**

Physical State	Solid		
Odour/Appearance	White to yellow crystals, no odour		
Vapour Pressure	N/A	Vapour Density	N/A
Evaporation Rate	N/A	Boiling Point	2230 °C
Freezing Point	1610 °C	pH	6-7
Specific Gravity	2.65	Coeff. Water/Oil Dist.	N/A

**SECTION 4 - FIRE AND EXPLOSION DATA**

Flammability	Not flammable	Means of Extinction	N/A
Flashpoint	N/A	Upper/Lower Flam. Limit	N/A
Autoignition Temp.	N/A	Hazardous Combustion Products	None
Explosion Data			
Sensitivity to Impact		None	
Sensitivity to Static Discharge		None	

**SECTION 5 - REACTIVITY DATA**

Chemical Stability	Stable
Incompatibility with Other Substances	None
Reactivity, and under what conditions	
Silica will dissolve in hydrofluoric acid to give silicon tetrafluoride, a corrosive gas.	

NOTE: N/A = Not Applicable

## SECTION 6 - TOXICOLOGICAL PROPERTIES

Route of Entry					
Skin Contact	No	Skin Absorption	No	Eye Contact	No
Inhalation	Yes	Ingestion	No		

## Effects of Acute Exposure to Product

No potential acute toxic hazards known.

## Effects of Chronic Exposure to Product

Excessive inhalation of crystalline silica dust may result in respiratory disease, including silicosis, pneumoconiosis and pulmonary fibrosis. The International Agency for Research on Cancer (IARC) has evaluated in Volume 42, Monographs on the Evaluation of the Carcinogenicity Risk of Chemicals to Humans; Silica and Some Silicates (1987), that there is "sufficient evidence for the carcinogenicity of crystalline silica to experimental animals" and "limited evidence with respect to humans."

## Exposure Limits

OSHA PEL: Exposure to airborne crystalline silica shall not exceed an 8-hour time-weighted average limit as stated in 29 CFR 19100.1000 Table Z3 for Mineral Dusts, specifically "Silica: Crystalline: Quartz (respirable)".

	$\frac{250}{\% \text{ SiO}_2 + 5}$	$\frac{10}{\% \text{ SiO}_2 + 2}$
Crystalline Quartz (Respirable)	Mppcf	mg/m <sup>3</sup>

	$\frac{30}{\% \text{ SiO}_2 + 2}$
Quartz (Total Dust)	mg/m <sup>3</sup>

ACGIH TLV: Crystalline Quartz

TLV - TWA = 0.1 mg/m<sup>3</sup> (respirable dust).

NIOSH has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air averaged over a work shift of up to 10 hours per day, 40 hours per week.

## Irritancy of Product

Individuals with pulmonary and /or respiratory disease, including, but not limited to, asthma and bronchitis, or subject to eye irritation, should be precluded from exposure.

Sensitization to Product	N/A		
Carcinogenicity	NTP	IARC Monographs	OSHA Regulated
See "Chronic Exposure"	No	Level 2A Grouping	No
Teratogenicity	None	Reproductive Toxicity	None
Mutagenicity	None	Synergistic Products	None

## SECTION 7 - PREVENTIVE MEASURES

## Personal Protective Equipment

Use conventional NIOSH approved or equivalent respiratory protection equipment based on considerations of airborne concentration and duration of exposure.

For sandblasting use appropriate protective equipment and filtered air supply.

**Gloves** Abrasion resistant gloves are essential if sandblasting, and desirable for other industrial situations.

**Eye** Use appropriate eye protection to minimize contact with dust.

**Other** Wear appropriate clothing and footwear for the specific application.

Clean clothing that has become dusty.

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**TARGET SPORTSFIELD SAND**

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**Section 7, continued**

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**Engineering Controls**

Use adequate ventilation and dust collection. Do not permit dust to accumulate in work area.

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**Leak and Spill Procedure**

If uncontaminated, collect for reuse or disposal. Use dustless procedures. If contaminated, use appropriate method and container for contaminant.

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**Waste Disposal**

If uncontaminated, dispose as an inert, non-metallic mineral.

If contaminated, use appropriate method for contaminant in accordance with applicable regulation(s).

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**Handling Procedures and Equipment**

Avoid creation of respirable dust if possible. Use adequate ventilation and dust collection.

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**Storage Requirements**

Store in a dry place.

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**Special Shipping Information**

N/A

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**SECTION 8 - FIRST AID MEASURES**

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**Eyes** Flush with running water. Obtain medical attention if irritation persists.

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**Gross** Remove to fresh air. Give oxygen with artificial respiration as needed. Obtain medical inhalation attention for treatment, observation and support as needed.

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**SECTION 9 - PREPARATION DATE OF MSDS**

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**Prepared By** Target Products Ltd., Quality Control Department

**Phone Number** (604) 420-3620

**Date** June 16, 2003

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The information 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. The information given is based on technical data that we believe to be reliable at the time of issue of the MSDS. Because conditions of use are outside our control, it is the responsibility of the user to verify safety data for combinations with other materials, or for use in specific processes, and to verify waste disposal requirements.