

Turface ProLine

SDS Number: BLM046

Revision Date: 6/3/2015

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

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Product Name: Turface ProLine
Revision Date: 6/3/2015
SDS Number: BLM046
Common Name: Limestone
Product Use: Athletic field marker.

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Carcinogenicity, 1
Health, Specific target organ toxicity - Repeated exposure, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H350 - May cause cancer
H373 - May cause damage to organs through prolonged or repeated exposure

GHS Precautionary Statements:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P308+313 - IF exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: Inhalation

Inhalation: Lungs



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3 COMPOSITION/INFORMATION OF INGREDIENTS**Ingredients:**

Cas#	%	Chemical Name
14808-60-7	>/=0.1%	Crystalline silica, quartz (impurity)
1317-65-3	</=99.9%	Limestone

4 FIRST AID MEASURES

Inhalation:	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin Contact:	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye Contact:	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.

5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Water fog, dry chemical powder, foam, carbon dioxide.

Unsuitable Extinguishing Media:
None known.

Specific Hazards arising from the chemical:
None known.

Special Equipment and Precautions for Firefighters:
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions:
In case of fire and/or explosion do not breathe fumes.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency procedures:
Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid generation of dust. Ensure adequate ventilation.

Methods and materials for containment and cleaning up:
Large Spills: If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Sweep up or vacuum up spillage and collect in suitable container for disposal.
Small Spills: Collect dust using a vacuum cleaner equipped with a HEPA filter. For waste disposal, see section 13 of the SDS.

Environmental Precautions:
Avoid discharge into drains, water courses or onto the ground.

7 HANDLING AND STORAGE

Handling Precautions: Obtain special instructions before use. Do not handle until all safety precautions have been read and



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Storage Requirements:

understood. Avoid breathing dust. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Store in tightly closed original container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the MSDS).

8 EXPOSURE CONTROLS/PERSONAL PROTECTION**Engineering Controls:**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment:

Eye/face protection - Wear safety glasses with side shields. Wear a full-face respirator, if needed.

Skin protection

Hand protection - For prolonged or repeated skin contact use suitable protective gloves.

Other - Wear suitable protective clothing.

Respiratory protection - If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations - Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Limestone (CAS 1317-65-3)	PEL	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Impurities	Type	Value	Form
Crystalline silica (CAS 14808-60-7)	TWA	0.3 mg/m ³	Total dust.
		0.1 mg/m ³	Respirable.
		2.4 millions of particle	Respirable.

US. ACGIH Threshold Limit Values

Impurities	Type	Value	Form
Crystalline silica (CAS 14808-60-7)	TWA	0.025 mg/m ³	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Limestone (CAS 1317-65-3)	TWA	5 mg/m ³	Respirable.
10 mg/m ³ Total			
Impurities	Type	Value	Form
Crystalline silica (CAS 14808-60-7)	TWA	0.05 mg/m ³	Respirable dust.

Biological limit values No biological exposure limits noted for the ingredient(s).

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White powder.	Odor:	Odorless.
Physical State:	Solid.	Solubility:	Negligible
Odor Threshold:	Not applicable.	Freezing/Melting Pt.:	Not applicable.
Boiling Point:	Not applicable.	Flash Point:	Not applicable.
Flammability:	Not applicable.	Octanol:	Not applicable.
Vapor Pressure:	Not applicable.	Vapor Density:	Not applicable.
pH:	8.4 - 10.2 (5% suspension in water)	VOC:	Not applicable.
Evap. Rate:	Not applicable.	Bulk Density:	Approximately 2.7 g/cm ³
		Auto-Ignition Temp:	Not applicable.



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STABILITY AND REACTIVITY

- Chemical Stability:** The product is stable and non-reactive under normal conditions of use, storage and transport.
- Conditions to Avoid:** Contact with incompatible materials.
- Materials to Avoid:** Strong acids.
- Hazardous Decomposition:** No hazardous decomposition products are known.

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TOXICOLOGICAL INFORMATION**Information on likely routes of exposure:**

- Ingestion:** Expected to be a low ingestion hazard.
- Inhalation:** Dust may irritate respiratory system. Prolonged inhalation may be harmful.
- Skin contact:** Dust or powder may irritate the skin.
- Eye contact:** Dust may irritate the eyes.

Symptoms related to the physical, chemical and toxicological characteristics:

Irritant effects. Coughing. Discomfort in the chest. Shortness of breath.

Information on toxicological effects

- Acute toxicity:** Occupational exposure to the substance or mixture may cause adverse effects.
- Skin corrosion/irritation:** Prolonged skin contact may cause temporary irritation.
- Serious eye damage/eye irritation:** Direct contact with eyes may cause temporary irritation.
- Respiratory sensitization:** Not a respiratory sensitizer.
- Skin sensitization:** This product is not expected to cause skin sensitization.
- Germ cell mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- Carcinogenicity:** May cause cancer.
- IARC Monographs. Overall Evaluation of Carcinogenicity**
Crystalline silica (CAS 14808-60-7) 1 Carcinogenic to humans.
- US. National Toxicology Program (NTP) Report on Carcinogens**
Crystalline silica (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity single exposure ;

Not classified.

Specific target organ toxicity repeated exposure:

May cause damage to organs (lung) through prolonged or repeated exposure by inhalation.

Aspiration hazard: Not likely, due to the form of the product.

Chronic effects: Crystalline silica: Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease.

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ECOLOGICAL INFORMATION

Ecotoxicity: Not expected to be harmful to aquatic organisms.

Persistence and degradability: Not readily degradable.

Bioaccumulative potential: None.

Mobility in soil: None.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose of in accordance with local regulations.



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Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14 TRANSPORT INFORMATION

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

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

Not Applicable.

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Crystalline silica, quartz (impurity) (14808-60-7) [≥0.1%] MASS, NRC, OSHAWAC, PA, TSCA, TXAIR

Limestone (1317-65-3) [≤99.9%] MASS, OSHAWAC, PA, TSCA, TXAIR

Regulatory CODE Descriptions

- MASS = MA Massachusetts Hazardous Substances List
NRC = Nationally Recognized Carcinogens
OSHA = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

- Hazard categories: Immediate Hazard - Yes, Delayed Hazard - Yes, Fire Hazard - No, Pressure Hazard - No, Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

Yes

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List



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Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Crystalline silica (CAS 14808-60-7)

Limestone (CAS 1317-65-3)

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Crystalline silica (CAS 14808-60-7)

Limestone (CAS 1317-65-3)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline silica (CAS 14808-60-7) Listed: October 1, 1988

International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List

NRC = Nationally Recognized Carcinogens

OSHA WAC = OSHA workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TXAIR = TX Air Contaminants with Health Effects Screening Level

TSCA = Toxic Substances Control Act

16 OTHER INFORMATION

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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References ACGIH

IARC Monographs. Overall Evaluation of Carcinogenicity

US. IARC Monographs on Occupational Exposures to Chemical Agents

National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices



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SDS

GHS Safety Data Sheet

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