PRO-TECH PRODUCTS, INC

Safety Data Sheet
According to GHS
Pro-Tech Dry Mix

SECTION 1: Identification

Product identifier

Product name	Pro-Tech Dry Mix

Supplier's details

Name	Pro-Tech Products, Inc
Address	3003 N. 73rd Street Scottsdale, AZ 85251 USA
Telephone	480-945-7303
Fax	480-945-8873
Website	WWW.Pro-TechProducts.com

Emergency phone number(s)

CHEMTREC: 800-424-9300

SECTION 2: Hazard identification

Classification of the substance or mixture
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 1
- Sensitization, skin (chapter 3.4), Cat. 1B
- Carcinogenicity (chapter 3.6), Cat. 1A
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

GHS label elements, including precautionary statements

Pictogram

Signal Word: **Danger**

Hazard statement(s)

-Causes skin irritation
-Causes serious eye damage
-May cause an allergic skin reaction
-May cause cancer
-May cause respiratory irritation

Precautionary statement(s)

Wash thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection. Face protection. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. So not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in well-ventilated area.

Response:

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. If on Skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/ attention. Immediately call a POISON CENTER/ doctor. Specific treatment (see this label). Wash contaminated clothing before reuse.

Other hazards which do not result in classification:

None

SECTION 3: Composition/information on ingredients

Substances

Hazardous components

1. Calcium Carbonate

Concentration	40 - 70 %
CAS no.	1317-65-3

2. Titanium Dioxide

Concentration	0.1 - 1 %
CAS no.	13463-67-7

3. Portland Cement

Concentration	40 - 70 %
CAS no.	65977-15-1

4. Crystalline Silica (Quartz) / Silica Sand

Concentration	0.1 - 1 %
CAS no.	14808-60-7

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	Move person to fresh air, if effects occur, consult physician.
In case of skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.
In case of eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.
If swallowed	Call a poison center/ doctor if feeling unwell. Rinse mouth.

Most important symptoms/effects, acute and delayed
Prolonged or repeated contact with skin may cause redness, itching, irritation, and eczema/ chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing. Respiratory tract irritation.

Indication of immediate medical attention and special treatment needed, if necessary
Symptoms may be delayed.

Ingestion:	Call POISON CENTER/ doctor if you feel unwell. Rinse mouth.
Inhalation:	Move to fresh air.
Skin contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.
Eye Contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center Immediately.

Most important symptoms/ effects, acute and delayed

Symptoms:	Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/ chapping. Extreme irritation of eye and mucous membranes, including burning and tearing. Respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

Treatment:	Symptoms may be delayed.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Use fire-extinguishing media appropriate for surrounding materials. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be found.

Special protective actions for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
See section 8 of the SDS Personal Protective Equipment. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Environmental precautions
Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up
Collect spillage in container, seal securely and deliver for disposal according to local regulations.

Reference to other sections
In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SECTION 7: Handling and storage

Precautions for safe handling
Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. So not get in eyes. Wash hands thoroughly after handling. Avoid contact with skin. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.

Conditions for safe storage, including any incompatibilities
Store locked up. Store in well ventilated place. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

Chemical Identity	Type	Exposure Limit Values	Source
Portland cement- Respirable fraction.	TWA	1mg/m3	US. ACGIH Threshold limit values (2011)
Portland cement- Total dust.	PEL	15mg/ m3	US. OSHA Table Z-1 limits for air contaminants (29 CFR 1910. 1000) (02 2006)
Portland cement- Respirable fraction.	PEL	5mg/ m3	US. OSHA Table Z-1 limits for air contaminants (29 CFR 1910. 1000) (02 2006)
Portland Cement	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910. 1000) (2000)
Calcium Carbonate (Limestone) – Total dust.	PEL	15mg/ m3	US. OSHA Table Z-1 limits for air contaminants (29 CFR 1910. 1000) (02 2006)
Calcium Carbonate (Limestone) – Respirable fraction.	PEL	5mg/ m3	US. OSHA Table Z-1 limits for air contaminants (29 CFR 1910. 1000) (02 2006)
Titanium dioxide	TWA	10mg/ m3	US. ACGIH Threshold limit values (2011)
Titanium dioxide- Total dust.	PEL	15mg/ m3	US. OSHA Table Z-1 limits for air contaminants (29 CFR 1910. 1000) (02 2006)
Crystalline Silica	TWA	0.025mg/ m3	US. ACGIH Threshold limit values (2011)

(Quartz)/ Silica Sand- Respirable fraction			
Crystalline Silica (Quartz)/ silica Sand Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1mg/ m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Crystalline Silica (Quartz)/ silica Sand- Total dust.	TWA	0.3mg/ m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

Chemical Name	**Type**	**Exposure Limit values**	**Source**
Portland cement- Total dust.	TWA	10mg/ m3	Canada. British Columbia OLEs. (Occupational Exposure Limits for Chemical substances, Occupational health and safety regulation 296-97, as amended) (07 2007)
Portland Cement- Respirable fraction.	TWA	3mg/ m3	Canada. British Columbia OLEs. (Occupational Exposure Limits for Chemical substances, Occupational health and safety regulation 296-97, as amended) (07 2007)
Portland Cement	TWAEV	10mg/ m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical agents) (11 2010)
Portland cement- Total dust.	TWA	10mg/ m3	Canada. Quebec OELs. (Ministry of Labor- Regulation Respecting the Quality of the work environment. (12 2008)
Portland cement- Respirable dust.	TWA	5mg/ m3	Canada. Quebec OELs. (Ministry of Labor- Regulation Respecting the Quality of the work environment. (12 2008)
Calcium Carbonate (Limestone) – Total dust.	STEL	20mg/ m3	Canada. British Columbia OELs. (Occupational exposure limits for chemical substances, occupational health and safety regulations 296/97, as amended) (07 2007)
	TWA	10mg/ m3	Canada. British Columbia OELs. (Occupational exposure limits for chemical substances, occupational health and safety regulations 296/97, as amended) (07 2007)
Calcium Carbonate (limestone) – Respirable fraction.	TWA	3mg/ m3	Canada. British Columbia OELs. (Occupational exposure limits for chemical substances, occupational health and safety regulations 296/97, as amended) (07 2007)
Calcium Carbonate (limestone) – Total dust	TWA	10mg/ m3	Canada. Quebec OELs. (Ministry of Labor- Regulation Respecting the Quality of the work environment. (12 2008)
Titanium dioxide- Total dust.	TWA	10mg/ m3	Canada. British Columbia OELs. (Occupational exposure limits for chemical substances, occupational health and safety regulations 296/97, as amended) (07 2007)
Titanium dioxide- Respirable fraction	TWA	3mg/ m3	Canada. British Columbia OELs. (Occupational exposure limits for chemical substances, occupational health and safety regulations 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10mg/ m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical agents) (11 2010)

Titanium dioxide- Total dust.	TWA	10mg/ m3	Canada. Quebec OELs. (Ministry of Labor- Regulation Respecting the Quality of the work environment. (12 2008)
Crystalline silica (quartz) / silica sand- respirable fraction.	TWA	0.025mg/ m3	Canada. British Columbia OLEs. (Occupational Exposure Limits for Chemical substances, Occupational health and safety regulation 296-97, as amended) (07 2007)
Crystalline silica (quartz) / silica sand- respirable.	TWAEC	0.10mg/ m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical agents) (11 2010)
Crystalline silica (quartz) / silica sand- respirable dust.	TWA	0.1mg/ m3	Canada. Quebec OELs. (Ministry of Labor- Regulation Respecting the Quality of the work environment. (12 2008)

Appropriate engineering controls
Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Use suitable protective gloves if risk of skin contact. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

General Information:

Provide ways access to water supply and eye wash facilities. 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 limited. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Respiratory protection

In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Thermal hazards

Hygiene Measures: Observe good industrial hygiene practices. Wash hand before breaks and immediately after handling the produce. Do not get in eyes. Wash contaminated clothing before reuse. Avoid contact with skin.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Solid, Powder, white.
Odor	Odorless
pH	10-13
Melting point/freezing point	N/A
Initial boiling point and boiling range	N/A
Flash point	N/A
Evaporation rate	N/A
Flammability (solid, gas)	No
Upper/lower flammability limits	N/A
Upper/lower explosive limits	N/A
Vapor pressure	N/A
Vapor density	N/A
Relative density	2.7
Solubility(ies)	Miscible with water.
Partition coefficient: n-octanol/water	N/A
Auto-ignition temperature	N/A

SECTION 10: Stability and reactivity

Reactivity
No data available

Chemical stability
Material is stable under normal conditions.

Possibility of hazardous reactions
No data available.

Conditions to avoid
Avoid heat or contamination.

Incompatible materials
No data available.

Hazardous decomposition products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
No data available

Skin corrosion/irritation
No data available

Serious eye damage/irritation
No data available

Respiratory or skin sensitization
No data available

Reproductive toxicity
No data available

Information on likely routes of exposure:

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation: In high concentrations, vapors, fumes, or mists may irritate nose, throat and mucus membranes.
Skin contact: Causes skin irritation.
Eye contact: Causes serious eye damage.

IARC Monograph on the Evaluation of carcinogenic risks to human:

Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.
Crystalline silica (quartz)/ Silica sand	Overall evaluation: Carcinogenic to humans.

U.S. National toxicology program (NTP) Report on carcinogens:

Crystalline silica (quartz)/ Silica sand	known to be human Carcinogenic

SECTION 12: Ecological information

Eco toxicity:

Acute Hazards to the aquatic environment:

Specified substance(s):

Titanium dioxide	LC 50 (Mummichog (Fundulus heteroclitus), 96 h) :> 1,000 mg/I Mortality

Specified substance(s):

Titanium dioxide	EC 50 (water flea (Daphnia magna), 48h): > 1,000 mg/ I Intoxication

Chronic Hazards to the aquatic environment:

Specified substance(s):

Titanium dioxide	LC 0 (Coregonus autunails migratorius G., 30d): 3mg/ I experimental results

Persistence and degradability
No available data

Bio accumulative potential
No available data

SECTION 13: Disposal considerations

Disposal of the product
Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Disposal of contaminated packaging

No data available

SECTION 14: Transport information

DOT (US)
Not regulated

IMDG
Not regulated

IATA
Not regulated

SECTION 15: Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate (Acute) Health Hazards
Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification
None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Portland cement	500 lbs.
Calcium Carbonate (Limestone)	500 lbs.
Titanium dioxide	500 lbs.
Crystalline Silica (Quartz)/ Silica Sand	500 lbs.

SARA 313 (TRI Reporting)
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

US. New Jersey Worker and Community Right-to-Know Act
Chemical Identity
Portland cement
Calcium Carbonate (Limestone)
Crystalline Silica (Quartz)/ Silica Sand

US. Massachusetts RTK - Substance List
Chemical Identity
Portland cement
Calcium Carbonate (Limestone)
Crystalline Silica (Quartz)/ Silica Sand

US. Pennsylvania RTK - Hazardous Substances
Chemical Identity
Portland cement
Calcium Carbonate (Limestone)

US. Rhode Island RTK
No ingredient regulated by RI Right-to-Know Law present.

Other Regulations:
Regulatory VOC (less water and exempt solvent):
0 g/l
VOC Method 310: 0.00 %

Inventory Status:
Australia AICS: All components in this product are listed on or exempt from the Inventory.

Canada DSL Inventory List: All components in this product are listed on or exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are not listed on or exempt from the Inventory.

Japan (ENCS) List: One or more components in this product are not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances: All components in this product are listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): All components in this product are listed on or exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are not listed on or exempt from the Inventory.

US TSCA Inventory: All components in this product are listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals: All components in this product are listed on or exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing: One or more components in this product are not listed on or exempt from the Inventory.

SECTION 16: Other information

Further information/disclaimer

SDS preparation date: 6/15/15

Important Notices
This notification is a part of the Safety Data Sheet document and must not be detached. Any copying and redistribution of the Safety Data Sheet shall include copying of this notice and attaching the copy to the redistributed Safety Data Sheet copies.

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