

Read this Safety Data Sheet (SDS) before handling and disposing of this product. Provide this information to all users of this product. This SDS is provided to assist you in the unlikely event that you experience any difficulties while using or handling the product and provides information on First Aid measures, Fire Safety, accidental spillage, safe handling and disposal.

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: #11-1630W Roofing Granules	MANUFACTURER: Schabel Polymer Technology d/b/a SchabelTech
PRODUCT USE: Roofing	29299 Clemens Rd #1-L
	Westlake, OH 44145
	TEL: 440-462-1500 E: info@schabeltech.com
EMERGENCY: CHEMTEL P: 800-255-3924 For US, Canada, Puerto Rico and US Virgin Islands P: 813-248-0585: For outside the US, Canada, Puerto Rico and US Virgin Islands	EMERGENCY CONTRACT NUMBER: MIS9510974


SECTION 2 – HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE MIXTURE:

HAZARD CLASS	CATEGORY	HAZARD STATEMENTS
Specific target organ toxicity, repeated exposure	1	Causes damage to lungs and respiratory system, through prolonged or repeated exposure by inhalation. Causes damage to kidney and liver through prolonged or repeated exposure.

OSHA HAZARD COMMUNICATION STANDARD:	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
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Recommended Restrictions: All users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulation.

GHS LABEL ELEMENTS:	SIGNAL WORD: DANGER	PICTOGRAM(S): 
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HAZARD STATEMENT: May cause eye irritation. May cause cancer if inhaled. Causes damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:

PREVENTION: Wear eye protection. Avoid breathing dust. Wear respiratory protection (in case of inadequate ventilation).

RESPONSE:

IF ON SKIN: Rinse with water.

IF IN EYES: Rinse with water, seek medication attention if discomfort continues.

IF INHALED: Move the exposed person to fresh air, keep at rest and comfortable.

IF SWALLOWED: Rinse mouth.

STORAGE:	Keep product dry.
DISPOSAL:	Generally inert. Dispose in accordance with local / regional / national / international regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	Concentration, %
Calcium Carbonate	471-34-1	97 - 99
Magnesium Carbonate	546-93-0	0.5 - 1.5
Crystalline Silica	14808-60-7	0.1 - 1.0
All concentrations are percent by weight. May contain trace elements below the reportable limit. Note: Values do not denote specifications but rather typical concentration percentages.		

SECTION 4 – FIRST AID MEASURES

EYES: DO NOT RUB EYES. Contact with dust may cause irritation by mechanical abrasion. Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

SKIN: Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

INHALATION: Dust may irritate the nose, throat and respiratory tract by mechanical abrasion. Coughing, sneezing and shortness of breath may occur following exposures in excess of appropriate exposure limits. Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalation of large amounts of product requires immediate medical attention.

INGESTION: Do not induce vomiting. If conscious, have victim drink plenty of water and call a physician immediately.

Most important symptoms or side effects: Dust may irritate the respiratory tract, eyes and skin.

Recommendations for immediate medical care and special treatment: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5 – FIREFIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use an extinguishing agent suitable for the surrounding fire. Non-flammable.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use water jet and halogenated compounds
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:	This product is non-flammable and non-combustible. Containers at risk from fire should be cooled with water spray and, if possible, removed from the danger area. During fire, gases hazardous to health may be formed.
HAZARDOUS COMBUSTION PRODUCTS:	None.
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:	Firefighters should wear full protective gear including self-contained breathing apparatus. Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES:	Keep unnecessary and unprotected personnel from entering spill area. Do not touch or walk through spilled material. Use adequate ventilation.
PROTECTIVE EQUIPMENT:	Use exposure control and personal protection methods as described in Section 8. Ensure adequate ventilation/exhaust extraction. Avoid inhalation of dust and contact with skin and eyes during clean up.
PROPER METHODS OF CONTAINMENT:	Contain and cover spill to minimize dust emission. Collect dry material using a scoop. Avoid actions that cause dust to become airborne. Do not dry sweep. Avoid inhalation of dust and contact with skin. Vacuum dust with equipment fitted with HEPA filter and place in a designated labeled waste container. If material is wet, scrape up wet material and place in an appropriate container. Allow the material to dry before disposal. For major spills: approach from upwind. Prevent wind dispersal.
CLEANUP:	Clean up by sweeping, shoveling, vacuuming or flushing with water. Avoid the generation of dust during clean up. Seal the container(s), remove from spill area and properly dispose of the waste material in accordance with existing federal, state and local regulations.
NEUTRALIZING CHEMICALS:	None required.
DISPOSAL:	Generally inert. Dispose in accordance with local / regional / national / international regulations – or recycle and use beneficially in other applications.
PERSONAL PRECAUTIONS:	Use adequate ventilation or dust mask approved by NIOSH/MSHA. Wear adequate eye protection and appropriate protective clothing.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Do not breathe dust. Use adequate ventilation and/or dust collection methods. Use all available work practices to control dust exposures, such as water sprays. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Avoid breakage of bagged material or spills of bulk material. Wear appropriate respiratory protection approved by NIOSH/MSHA, eye and skin protection. Avoid contact with skin and eyes. Wash hands thoroughly after handling. Exposed skin may become dry and irritated with prolonged contact. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Hands and/or face should be washed before eating, drinking and smoking and at the end of the shift. Remove contaminated clothing and protective equipment before entering eating areas. Wash or vacuum clothing when it becomes dusty. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure by obtaining and following special instructions before use. Do not handle until all safety precautions have been read and understood.
PRECAUTIONS FOR STORAGE:	Store in original or approved alternative container protected from direct sunlight in a dry, cool and well-ventilated area away from incompatible materials (see below for details) and food and drink. Keep the container(s) tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed. Store bags to avoid accidental tearing, breaking, or bursting. Avoid windblown dust by shielding or covering outdoor stockpiles. Protect from getting wet from atmospheric moisture and other sources.
INCOMPATIBILITIES:	Acids or oxidizing agents.

SECTION 8 – PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

OSHA's PERMISSIBLE EXPOSURE LIMITS (PEL)

COMPONENTS	OSHA PEL (TWA) 8/40h (mg/m3)	ACGIH TLV (TWA) 8/40h (mg/m3)	MSHA/PEL (TWA) 8/40h (mg/m3)	NIOSH REL (TWA) 8/40h (mg/m3)
Calcium Carbonate (CaCO ₃)	T=15 R=5	TLV Withdrawn	T=15 R=5	T=10 R=5
Crystalline Silica (1)	T= 30 (%SiO ₂)+2 R=10/(%SiO ₂)+2	R = 0.025	T= 30 (%SiO ₂)+2 R=10/(%SiO ₂)+2	R = 0.05 (free silica)

Limestone is not a carcinogen listed by ACGIH, MSHA, OSHA, NTP, DFG, RSST or IARC. However, crystalline silica may be trace amounts at or above detection levels (<0.1%). Occurrence is dependent upon the stone source, process and specific application. Two ranges are disclosed for (T) Total Dust and (R) Respirable Dust.

ENGINEERING CONTROLS:	Avoid actions that cause dust to become airborne. Use local exhaust or general dilution ventilation to control exposure within applicable limits. Eye Wash: Ensure that eye wash stations are close to the workplace location. Exposure: Evaluate degree of exposure and use PPE as necessary. Ventilation: Local exhaust or ventilation adequate to reduce exposures below appropriate limits. Other: Respirable dust and quartz levels should be monitored regularly. Dust and quartz levels in excess of appropriate exposure limits should be reduced by all feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosure and enclosed employee work stations.
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PERSONAL PROTECTIVE EQUIPMENT (PPE).

RESPIRATORY PROTECTION:	Follow OSHA respirator guidelines found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
EYE PROTECTION:	Wear safety glasses with side shields or goggles to avoid contact with eyes such as ANSI, CSA or ATM approved glasses or goggles. Dust goggles should be worn if excessive emissions are present and when wearing contact lenses
SKIN AND HAND PROTECTION:	Wear impervious abrasion and alkali-resistant gloves, boots, long sleeve shirt, long pants or other protective clothing to prevent or minimize skin contact. Promptly remove dusty or contaminated clothing, and launder before reuse. If contact occurs, wash areas contacted by material with pH neutral soap and water.
FOOTWEAR PROTECTION:	No special requirements. Steel toe boots recommended.
HYGIENE:	Wash dust-exposed skin with soap and water before eating, drinking, smoking and using toilet facilities. Wash work clothes after each use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid	FORM COLOR:	Off-white granule / pebble / white powder
ODOR & ODOR THRESHOLD:	Negligible	FLASH POINT:	Not Applicable, Not Flammable
BOILING POINT:	N/A	EXPLOSIVE LIMITS:	Non-explosive
EVAPORATION RATE:	Not Applicable	FLAMMABILITY (SOLID/GAS):	Not Applicable
VAPOR PRESSURE:	Not applicable	pH:	8.5 - 9.5 at 10% Solids
VAPOR DENSITY:	Not applicable	SOLUBILITY IN WATER:	Negligible

RELATIVE DENSITY:	Not Applicable	UPPER/LOWER FLAMMABILITY:	Not Flammable
PARTITION COEFFICIENT:	Not Applicable	DECOMPOSITION TEMPERATURE:	Decomposes at 825° Celsius

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Product is stable under recommended storage conditions. Keep dry until used.
CHEMICAL REACTIVITY:	Reacts with acid to form Carbon Dioxide (CO ₂)
INCOMPATIBILITY:	Avoid contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride may cause fire and/or explosions. Silica dissolves readily in hydrofluoric acid producing a corrosive gas – silicon tetrafluoride.
HAZARDOUS DECOMPOSITION:	Calcium oxide will form at high sustained temperatures. Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride yielding possible fire and/or explosions. Silica dissolves readily in hydrofluoric acid producing a corrosive gas – silicon tetrafluoride.

SECTION 11 – TOXICOLOGY INFORMATION

LIKELY ROUTES OF EXPOSURE:	Skin and Eye Contact, Inhalation and Ingestion.
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Acute: Routes of entry – Skin Contact; Eye Contact; Inhalation; Ingestion.

Skin: May dry and irritate skin and mucous membranes.

Eyes: Eye irritation with possible discomfort or pain, local redness and swelling of the conjunctiva.

Inhalation: Harmful if inhaled. May cause respiratory tract irritation/inflammation. Exposure may cause coughing and sneezing. Large amounts may cause chemical pneumonitis.

Ingestion: May cause gastro-intestinal irritation. If ingested in large quantities may cause nausea, constipation and hypocalcaemia and hemorrhage.

Sensitization: No sensitizing effect known.

Chronic: No signs or symptoms of chronic exposure of limestone have been reported. This product may contain trace amounts of Crystalline Silica. Excessive inhalation of respirable Crystalline Silica dust may result in respiratory disease, including silicosis, pneumoconiosis and pulmonary fibrosis.

Carcinogenicity: Limestone is not a carcinogen listed by ACGIH, MSHA, OSHA, NTP, DFG, RSST or IARC. Limestone may contain trace amounts of Crystalline Silica which is listed by these organizations as a carcinogen.

- NTP lists respirable Crystalline Silica as known to be human carcinogens based on sufficient evidence of carcinogenicity in humans.
- IARC classifies Crystalline Silica as (Group 1) carcinogenic to humans if inhaled in the form of quartz or cristobalite from occupational sources.
- NIOSH considers Crystalline Silica to be a potential occupational carcinogen as defined by the OSHA carcinogen policy (29 CFR 1990).
- California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) regulated respirable Crystalline Silica.
- ACGIH lists respirable Crystalline Silica (quartz) as suspected human carcinogen (A-2).
- RSST lists respirable Crystalline Silica (quartz) as suspected human carcinogen.

SECTIONS 12 – ECOLOGICAL INFORMATION

Toxicity: Aquatic toxicity foreseeable as nonrelevant.

Persistence and degradability: No relevant information available.

Ecological information: Non-biodegradable but soluble in weak acid.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional information: Product generally considered non hazardous as a water pollutant.

PBT and vPvB assessment: Not applicable.

Marine pollutant: Not classified.

Other adverse effects: No further relevant information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Spillage generating dust may expose cleanup personnel to respirable crystalline silica. Wetting of spilled material and/or use of respiratory protective equipment may be necessary. Do not dry sweep spilled material without PPE. Prevent spilled materials from inadvertently entering streams, drains or sewers. Dispose in accordance with local / regional / national / international regulations. Waste is not subject to RCRA and acceptable at landfills as a "solid waste". Product can often be beneficially reused or recycled for other purposes.

SECTION 14 – TRANSPORTATION CONSIDERATIONS

UN Number:	Not applicable.
UN Proper Shipping Names:	Not applicable.
Transport Hazard Class:	Not applicable.
Packaging Group:	Not applicable.

Shipping and Transportation - Limestone is classified as a non-hazardous material by the Canadian Transportation of Dangerous Good (TDG) Regulations and the US Department of Transportations (DOT).

EU Transportation: Road (ADR); Rail (RID); Sea (IMDG); Air (ICO/IATA) – not restricted.

International Maritime Dangerous Goods (IMDG Code) – Not classified.

Transport in bulk EU Annex II of MARPOL73/78 and the IBC Code) – Not applicable.

SECTION 15 – REGULATORY INFORMATION (Non-Mandatory Section as per OSHA: Not a Complete List)

State: Consult local and state hazard communication regulations.

Federal: FDA: 21 CFR 175.105; 21 CFR 175.300; 21 CFR 176.170; 21 CFR 176.180; 21 CFR 177.1210; 21 CFR 178.3297; 40 CFR 180.1011:©

TSCA/DSL: Listed under CAS 1317-65-3 Exempt from DSL as naturally occurring.

CONEG: Materials used to manufacture packaging are CONEG compliant.

CWA: Not considered to be a water pollutant.

WASTE: Waste is not subject to RCRA and acceptable at landfills as a “solid waste”. Product can often be beneficially reused or recycled for other purposes.

SPILLS: Sweep up spillage in dry form where possible.

OSHA: Labeling required under OSHA Hazard Communication Standard (29 CFR 1910.1200 (f) and other applicable state and local laws and regulations.

PROP 65: WARNING: This product MAY contain chemical(s) known to the state of California to cause cancer.

NAFTA: Product qualifies under HS Tariff No 2521.00 as 100% US Origin, Preference Criteria A.

EU Directive: Not classified as hazardous for supply (1999/45/EC).

SARA304: NO

SARA311: YES**

SARA312: Possibly

SARA313: NO

NJRTK: YES

CAPROP65: YES

CANDSL: YES

EINECS: YES

RCRA: NO

Additional Information: **SARA311: listed. ACGIH TLV assigned.

SECTION 16 – OTHER INFORMATION

Disclaimer:

All information contained herein is based on the present state of our knowledge at the date of issue. It is believed to be accurate. It is intended to describe products from the point of view of safety requirements. It should not be construed as guaranteeing specific properties.

Under no circumstances is the user exempt from respecting legislative or administrative requirements related to the product in terms of safety, hygiene, and/or health and environmental protection, nor does SchabelTech assume liability for the user's failure to adhere to such requirements, even if the user's actions were done in consultation with the advice given herein.

This product should be stored, handled and used in accordance with good industrial safety and hygiene practices and according to local regulations.

For this and other reasons, we do not assume responsibility and expressly disclaim any liability for loss, damage or expense arising out of, or in any way connected with the handling, storage, use of, and/or disposal of the product.

This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. SchabelTech makes no warranties, express or implied, including those covering the implied warranties of merchantability and fitness, regarding the applicability or accuracy of the advice and information herein once the user departs from the proscribed uses.

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