MATERIAL SAFETY DATA SHEET

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American Tool Companies, Inc.
Wilmington Division
92 Grant Street
Wilmington, Ohio 45177

Technical Contact: Jeff Curry
(937) 382-3811 (8:00-5:00 EST)

1. SUBSTANCE IDENTIFICATION

Substance Name:	**Strait-Line® Marking Chalk (Blue)**
Description:	Powdered Chalk
General Use:	Refill for self-chalking chalk line reels

2. COMPOSITION/INGREDIENT INFORMATION

			Exposure Limit 8-Hour TWA (mg/m^3)		
Component	CAS No.	% by weight	OSHA PEL	ACGIH TLV	NIOSH REL
Calcium Carbonate (Limestone)	471-34-1; (1317-65-3)	75-85	15[1] 5[2]	10[1]	10[1] 5[2]
Sodium Alumino Sulphosilicate	57455-37-5	10-20	15[1] 5[2]	10[1] 3[2]	
Magnesite	546-93-0	4-6	15[1] 5[2]	10[1]	15[1] 5[2]
Silica-Crystalline Quartz[3]	14808-60-7	0.01-3.0	2.0[2,4]	0.05[2]	0.05[2]

[1] Total dust.
[2] Respirable dust.
[3] Calcium carbonate may contain crystalline silica at levels between 0.01 and 4.0 % and varies naturally.
[4] Using the OSHA quartz formula, this PEL was calculated assuming a crystalline silica content of 3.0% in this ingredient.
TWA = Time-weighted average.

3. HAZARDS IDENTIFICATION

Hazardous Material Identification System (HMIS):
Health 1*, Flammability 0, Reactivity 0. *chronic effects

EMERGENCY OVERVIEW: Non-combustible blue solid powder with no odor. Mildly irritating to eyes, skin, and respiratory system. Exposure to large quantities of this material may cause acute irritation of eyes and difficulty breathing.

POTENTIAL HEALTH EFFECTS: Exposure to Strait-Line® Marking Chalk is primarily through contact with dust from this material created during handling and use of the chalk. Acute health effects include minor irritation of the eyes, skin, and respiratory tract.

INHALATION: Acute exposure to dust levels above exposure limits (Section 2) may cause irritation of the respiratory system with sneezing and coughing.

EYE CONTACT: Contact with dust or powder may cause mechanical irritation and pain, watering of eyes, and eyelid inflammation.

SKIN CONTACT: When the product is used as intended, it is not considered to cause discomfort. Prolonged skin contact may produce moderate irritation.

INGESTION: Considered an unlikely route of entry in commercial/industrial environments. Small amounts of low dose rates are regarded as practically non-harmful. This material acts as a mild laxative. In excessive quantity, may cause stomach distension with pain.

CHRONIC: Repeated and prolonged inhalation exposure to crystalline silica dust above exposure limits may cause delayed, chronic lung injury (silicosis). When the product is used as intended, dust levels should not exceed exposure limits. See Sections 2 and 11.

4. FIRST AID MEASURES

INHALATION: Remove exposed person to fresh air; restore and/or support his or her breathing as needed. Encourage the victim to cough, spit out, and blow nose to remove dust. Seek medical attention if irritation or discomfort persist.

EYE CONTACT: Rubbing eyes may cause abrasions. Gently lift the eyelids and flush immediately and continuously with copious amounts of water for at least 15 minutes. If irritation continues, seek medical attention.

SKIN CONTACT: Wet clothing first to minimize dust generation, then remove contaminated clothing. Do not shake or blow dust off clothing or body. Wash affected skin with soap and water. Launder contaminated clothing before wearing again. Seek medical attention in event of irritation.

INGESTION: Never give anything by mouth to an unconscious person. Rinse mouth out with plenty of water. If ingested, have that conscious person drink 2 to 3 glasses of water, do not induce vomiting. Consult with a physician or medically trained personnel at a poison control center.

5. FIRE-FIGHTING MEASURES

FLASHPOINT: None identified.

FLAMMABLE LIMITS: None identified.

AUTOIGNITION TEMPERATURE: None identified.

HAZARDOUS COMBUSTION PRODUCTS: In fires sustained by other combustible material, this product may undergo chemical change with the release of heat, and toxic, irritating sulfur dioxide gas.

EXTINGUISHING MEDIA: This material is noncombustible. Use extinguishing agents that will put out the surrounding fire.

FIRE-FIGHTING INSTRUCTIONS: Suitable breathing apparatus should be worn by fire-fighters.

6. ACCIDENTAL-RELEASE MEASURES

Notify safety and environmental personnel of spills or leaks. For large spills (e.g. more than 8 ounces), cleanup personnel need protection against eye contact and dust inhalation. Prevent spillage from entering sewers, or storm sewers, which includes sinks, toilets, and floor drains. Recover the product whenever possible. Avoid creating dust during cleanup. Shovel the material or use high-efficiency particulate air (H.E.P.A.) filtered vacuum, wet sweeping compound or water for cleanup so that airborne dust does not exceed exposure limits. **Do not dry sweep. Do not blow with air, which could cause a dusting problem**. Follow applicable OSHA regulations (29 CFR 1910.120).

7. HANDLING AND STORAGE

HANDLING: Store this material in a closed container and handle so as to minimize dusting or any material leaks. Do not mix with acids. Practice good personal hygiene after using this material. Keep containers closed when not in use.

STORAGE: Do not store near acids. Do not store in areas where there is a risk of fire.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use sufficient general area ventilation. Local exhaust ventilation should be used if airborne levels of dust exceed the exposure limits cited in Section 2.

RESPIRATORY PROTECTION: When engineering controls are not sufficient to reduce exposure, seek professional advice prior to respirator selection and use. Wear NIOSH-approved respirator selected per OSHA 29 CFR 1910.134 to reduce concentrations inside the respirator below exposure limits cited in Section 2.

SKIN PROTECTION: No special equipment needed when handling small quantities, e.g. refilling chalk-line reel.

EYE PROTECTION: Wear protective eyeglasses or chemical safety goggles in windy conditions or where eye contact is possible, as required by OSHA regulations (29 CFR 1910.133).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue
Physical State:	Powder
Odor:	None
pH: (at 10% solids)	8.5-9.5
Boiling Point:	Not applicable
Melting Point:	Decomposes at 1517°F (825°C) (Releases sulfur above 752°F, 400°C)
Vapor Pressure (at 20°C):	Not applicable
Percent Volatile:	0
Vapor Density (Air=1):	Not applicable
Solubility in Water:	<0.0002 (Trace)
Octanol/Water Partition Coefficient:	Not applicable
Specific Gravity (H_2O=1):	2.5-2.7
Volatile organic compound (VOC) content:	0 percent

10. STABILITY AND REACTIVITY

GENERAL: This product is stable under normal storage and handling conditions.

CONDITIONS TO AVOID: Avoid contact with acids.

CHEMICAL INCOMPATIBILITIES: Ignites on contact with fluorine. Reacts with acids to liberate carbon dioxide and sulfur dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur dioxide and carbon dioxide.

HAZARDOUS POLYMERIZATION: Does not occur.

11. TOXICOLOGICAL INFORMATION

Note: Toxicologic effects described in this section are those that would be expected based on data for the components of the product.

EYE: (Calcium Carbonate)
Rabbit: 0.750 mg administered for 24 hours produces severe irritation.

SKIN: (Calcium Carbonate)
Rabbit: 500 mg administered for 24 hours produces moderate skin irritation.

INGESTION: (Calcium Carbonate) Rat: LD_{50}: 6450 mg/kg.
(Sodium Alumino Sulphosilicate) Rat: LD_{50}: > 10,000 mg/kg.

INHALATION: (Silica, Crystalline-Quartz)
Human: LC_{Lo}: 300 µg/m^3 intermittent exposure over a 10 year period produced pulmonary system effects.

TARGET ORGANS: Eyes, respiratory tract, and skin.

CHRONIC/CARCINOGENICITY: The International Agency for Research on Cancer (IARC) has designated Silica, Crystalline-Quartz: Group 1A, carcinogenic to humans; National Toxicology Program (NTP), Group K, known to be a human carcinogen.

TERATOLOGY: No data.

REPRODUCTION: No data.

MUTAGENICITY: No data.

12. ECOLOGICAL INFORMATION

Limestone and other ingredients are not classified as a "toxic pollutant" or a "hazardous substance" under Section 307 and 311 of the Clean Water Act. The pigment in this product is extremely stable, except under acidic conditions, where it will decompose to white siliceous material with the evolution of hydrogen sulfide.

13. DISPOSAL CONSIDERATIONS

RCRA Hazardous Waste (40 CFR 261): This materials in this product are not listed wastes. Review Federal, state and local government requirements prior to disposal. Do not dispose of the product in storm sewer or sanitary sewer, which includes sinks, toilets, and floor drains. Disposal by landfill may be acceptable.

Consult an expert on the disposal of recovered material. Ensure conformity with Federal, state, and local disposal regulations.

14. TRANSPORT INFORMATION (NOT MEANT TO BE ALL INCLUSIVE) (49 CFR 172.101-2)

Department of Transportation (DOT) hazard class: Non-regulated material.
International Air Transport Association (IATA) hazard class: Non-regulated material.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA: Ingredients are listed as air contaminants (29 CFR 1910.1000). Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

TSCA (Toxic Substance Control Act): All components of this product are listed on the TSCA inventory.

CERCLA: Hazardous Substance, (40 CFR 302.4): Not Listed

Extremely Hazardous Substance (40 CFR 355): Not Listed

SARA Hazard Category: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category: "An immediate (acute) and chronic health hazard."

Chemicals subject to the reporting requirements of Section 313 or Title III of SARA and 40 CFR Part 372: None.

STATE REGULATIONS: California's "Safe Drinking Water and Toxic Enforcement Act of 1986" (Proposition 65).

This product contains the following Proposition 65 regulated materials known to the State of California to cause cancer or reproductive harm. The listed typical amounts are a result of their natural presence in the raw materials from which this product is produced.

arsenic	less than 2 part per million (ppm)
chromium	3 ppm
mercury	less than 0.2 ppm
lead	less than 4 ppm
nickel	less than 15 ppm
silica-crystalline quartz	less than 3.0 percent

16. OTHER INFORMATION

MSDS Status: This MSDS replaces the version dated 12/20/99. Sections 2, 3, 4, 6, 7, 8, 11, 15, and 16 have been revised.

To the best of our knowledge, the information contained herein is accurate. However, neither American Tool Companies, Inc. nor any of its subsidiaries or contractors assume any liability whatsoever for the accuracy or completeness of this information. The information relates to this specific material. It may not be valid for this material if used in combination with other materials or in any process. The user is responsible for the suitability and completeness of this information for his/her own particular use.

Prepared by: Larry Verdier, CIH, CSP, Shaw Environmental, Inc.
for the American Tool Companies, Inc.