

MATERIAL SAFETY DATA SHEET

Previous Date Issued: 3/1/95

Latest Revision Date: 5/20/98

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

Technical Contact: Jeff Curry
(937) 892-3811 (8-5 EST)

1. SUBSTANCE IDENTIFICATION

Substance Names: Strait-Line Marking Chalk[®] (Fluorescent Orange)
Strait-Line Marking Chalk[®] (Lime)
Description: Powdered Chalk
General Use: Refill for self-chalking chalk line reels

2. COMPOSITION/INGREDIENT INFORMATION

Component	CAS No.	% by weight	Exposure Limit 8-Hour TWA (mg/m ³)		
			OSHA PEL	ACGIH TLV	NIOSH REL
Calcium Carbonate (Limestone)	471-34-1; (1317-65-3)	75-85	15 ¹ 5 ²	10 ¹	15 ¹ 5 ²
Magnesite	546-93-0	4-6	15 ¹ 5 ²	10 ¹	15 ¹ 5 ²
Dyed Toluene Sulfon- amide Resin	25067-00-9	Not Avl.	15 ¹ 5 ²	10 ¹	
Silica-Crystalline Quartz ³	14808-60-7	0.01-1.5	0.1 ^{2,4}	0.1 ²	

¹ Total dust.

² Respirable dust.

³ Calcium carbonate may contain crystalline silica at levels between 0.01 and 1.5 % and varies naturally.

⁴ Use the OSHA quartz formula.

3. HAZARDS IDENTIFICATION

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

EMERGENCY OVERVIEW: Non-combustible orange or green solid powder with no odor. Free formaldehyde may be released at temperatures above 300°F. Exposure to large quantities of this material may cause acute irritation of eyes and respiratory system.

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.

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INHALATION: Acute exposure to dust levels above exposure limits (Section 2) may cause irritation of the respiratory system with sneezing and coughing. Brief exposures to dust concentrations above the 8-hour recommended exposure limits should pose no acute health problems.

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

SKIN CONTACT: Prolonged skin contact may produce moderate irritation.

INGESTION: No known effects.

CHRONIC: Prolonged inhalation exposure to crystalline silica dust above exposure limits (Section 2) may cause a delayed, chronic lung injury (silicosis). However, the product, when used as intended, is unlikely to exceed exposure limits. See section 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.

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 or until the person(s) is transported to an emergency medical facility.

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.

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

After first aid, get appropriate in-plant, paramedic, or community medical support.

5. FIRE-FIGHTING MEASURES

FLASHPOINT: None identified

FLAMMABLE LIMITS: Treat as a flammable dust in the finely divided and suspended state. Dust cloud formation may create a dust cloud explosion hazard.

AUTOIGNITION TEMPERATURE: None identified

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HAZARDOUS COMBUSTION PRODUCTS: Formaldehyde vapor is released at temperatures above 300°F.

EXTINGUISHING MEDIA: This material is noncombustible. Use extinguishing agents that will not fuel the surrounding fire.

FIRE-FIGHTING INSTRUCTIONS: In case of fire involving this material, do not enter the fire area without proper protective equipment including self-contained breathing apparatus. Toxic gas may be emitted.

6. ACCIDENTAL-RELEASE MEASURES

Notify safety personnel of spills or leaks. Cleanup personnel need protection against eye contact and dust inhalation. Avoid creating dust during cleanup. Shovel the material or use 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. Practice good personal hygiene, (hand washing, etc.) after using this material, especially before eating, drinking, smoking or applying cosmetics.

STORAGE: Store in a ventilated, cool, dry place. Heating may increase the rate of vapor evolution.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use sufficient general area ventilation. Local exhaust ventilation may be necessary to control airborne levels of dust below 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. When respiratory protection is required, follow OSHA respirator regulations (29 CFR 1910.134) and wear a NIOSH-approved respirator for organic vapors and dust.

SKIN PROTECTION: Gloves are recommended.

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

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9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not applicable
Melting Point:	Decomposes at 1517°F (825°C)
Vapor Pressure (at 20°C):	Not applicable
Percent Volatile:	0
Vapor Density (Air = 1):	Not applicable
Solubility in Water:	<0.0002 (Trace)
Coefficient Water/Oil Dist.	Not applicable
Specific Gravity (H ₂ O = 1):	2.6-2.7
pH: (at 10% solids)	7.5-8.5
Odor:	None
Appearance:	Bright-colored powder
Physical State:	Powder

10. STABILITY AND REACTIVITY

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

CONDITIONS TO AVOID: Excessive dust in the vicinity of electrical or spark-producing equipment.

CHEMICAL INCOMPATIBILITIES: Strong oxidizing agents. Ignites on contact with fluorine. Reacts with strong acids to liberate carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: Formaldehyde, carbon dioxide, carbon monoxide, oxides of nitrogen and oxides of sulfur.

HAZARDOUS POLYMERIZATION: Does not occur.

11. TOXICOLOGICAL INFORMATION

EYE: (Calcium Carbonate)

Rabbit: 750 µg 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: LD₅₀: 6450 mg/kg.

INHALATION: (Silica, Crystalline-Quartz)

Human: LC₅₀: 300 µg/m³ intermittent exposure over a 10 year period produced pulmonary system effects.

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SUBCHRONIC: Target organs include: eyes, respiratory tract, and skin.

CHRONIC/CARCINOGENICITY: The International Agency for research on Cancer (IARC), has designated Silica Crystalline-Quartz: Group 2A, probably carcinogenic to humans, sufficient evidence in laboratory animals; National Toxicology Program (NTP), Group 2, reasonably anticipated to be a carcinogen.

TERATOLOGY: No data.

REPRODUCTION: No data.

MUTAGENICITY: No data.

12. ECOLOGICAL INFORMATION

Limestone is not classified as a "toxic pollutant" or a "hazardous substance" under Section 307 and 311 of the Clean Water Act.

13. DISPOSAL CONSIDERATIONS

RCRA Hazardous Waste (40 CFR 261): This material is not a listed waste. Review Federal, state and local government requirements prior to disposal. Disposal by landfill may be acceptable.

Consult an expert on the disposal of recovered material. Ensure conformity with 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.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA: Listed as an air contaminant (29 CFR 1910.1000). Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

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

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CEKCLA: 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) 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)

Materials known to cause cancer or reproductive toxicity: None. (This product has been tested according to "guidelines and safe use determination procedures". Levels of exposure were found to pose no significant risk.)

16. OTHER INFORMATION

MSDS Status: Replaces previous issue dated 3/1/95.

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, IT Corporation
for the American Tool Companies, Inc.