

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Mortar Phat
CHEMICAL NAME/SYNONYM: None

MANUFACTURER: InCide® Technologies, Inc.
ADDRESS: 50 N 41st Ave
 Phoenix, AZ 85009

EMERGENCY PHONE: (602) 233-0756
CHEMTREC PHONE: (800) 424-9300

RECOMMENDED USE: Mortar enhancer

SECTION 2: HAZARDS IDENTIFICATION

HAZARD OVERVIEW: May cause mechanical irritation to skin, eyes, and respiratory tract. Crystalline silica is a natural component of ptiotne and bentonite and is present in the mixture at <1% by weight and is considered a carcinogen.

OSHA HAZARD CLASSIFICATION:
 Eye irritation Category 2B
 Skin Sensitization Category 1B
 Carcinogenicity Category 1A

OSHA HAZARD PICTOGRAM:



SIGNAL WORD: Danger

HAZARD STATEMENTS:
 Causes eye irritation.
 May cause an allergic skin reaction.
 May cause cancer.

PRECAUTIONARY STATEMENTS:
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not eat, drink or smoke when using this product.
 Do not breathe dust.
 Wear protective gloves/ protective clothing/eye protection/face protection (see section 8).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If on skin: Take off clothing immediately. Wash with plenty of water.
 If eye or skin irritation persists: Get medical advice/attention.
 If swallowed: Rinse mouth. Do not induce vomiting.
 If inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse. Do not allow contaminated work clothing out of the workplace.

Store locked up in a well-ventilated place. Keep container tightly closed.
 Dispose of contents/container to in accordance with local/regional/national/international regulations (see section 13).

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION: None.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>
Ptiotne	1319-41-1	1-98
Bentonite	1302-78-9	1-98
Tall oil, sodium salt	65997-01-5	1-2
Crystalline silica	14808-60-7	<1

Other chemicals present in this mixture are present at <1% or <0.1% per OSHA 2012 HCS.

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water to remove particles. Seek medical attention if irritation persists.

SKIN: If irritated, wash affected area thoroughly with soap and water. Remove contaminated cloths and launder before reuse.

INGESTION: Do not induce vomiting. Seek medical attention if any symptoms appear.

INHALATION: Remove to fresh air. Seek medical attention if any symptoms appear.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry chemical extinguishing media or water.

SPECIAL FIRE FIGHTING PROCEDURES: None.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

GENERAL: For dry material, collect by sweeping and scooping. Transfer collected material to a container, being careful to minimize creation of dust. Care should be taken to keep spilled products out of sewers, streams, and water systems.

LAND SPILL: Vacuum, shovel or sweep up and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during clean up and disposal.

WATER SPILL: No specific instruction. Care should be taken to keep spilled products out of sewers, streams, and water systems.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Good housekeeping procedures should be followed to minimize dust generation and accumulation. Avoid spills. Do not eat, drink, or smoke in work areas. Wash hands and exposed skin after use. Remove contaminated clothing and protective equipment before entering eating areas.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Keep dry until use. Atmospheric temperatures and pressures do not affect the shelf life of this product. Store out of direct heat and light. Do not store near potential spark or flame. Incompatible with strong oxidizing agents.

Storage temperature:	Ambient
Storage pressure:	Atmospheric
Special sensitivity:	None

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT	CAS NO.	OSHA	ACGIH
Pirotine	1319-41-1	15 mg/m ³ total dust and 5 mg/m ³ respirable dust	10 mg/m ³ total dust and 3 mg/m ³ respirable dust
Bentonite	1302-78-9	15 mg/m ³ total dust and 5 mg/m ³ respirable dust	10 mg/m ³ total dust and 3 mg/m ³ respirable dust
Tall oil, sodium salt	65997-01-5	None	None
Crystalline silica	14808-60-7	15 mg/m ³ total dust	0.025 mg/m ³ respirable dust

ENGINEERING CONTROLS AND VENTILATION: Use local exhaust ventilation to keep airborne concentrations of dust below permissible exposure limits.

RESPIRATORY PROTECTION: If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted vapor/particulate respirator approved by NIOSH for protection.

EYE PROTECTION: Wear eye protection (e.g., safety goggles) to reduce the potential for eye contact.

SKIN PROTECTION: Prevent prolonged or repeated contact by using rubber gloves, sleeves, aprons, and appropriate protective clothing.

SECTION 8 NOTES: PEL: Permissible Exposure Limit, TLV: Threshold Limit Value, TWA: Time Weighted Average

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White to light colored solid

ODOR: Earthy

ODOR THRESHOLD: Not applicable

pH AT AS SUPPLIED: 4-8 at 25°C

MELTING POINT/FREEZING POINT: Not applicable

BOILING POINT AND BOILING RANGE: Not applicable

FLASH POINT: Not applicable

EVAPORATION RATE: Not applicable

FLAMMABILITY: Non-flammable

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: Not applicable

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

RELATIVE DENSITY: 1.9-2.4 g/cm³

SOLUBILITY IN WATER: Not soluble

SPECIFIC GRAVITY: Not applicable

PARTITION COEFFICIENT; n-octanol/water: Unknown

AUTO-IGNITION TEMPERATURE: Not applicable

DECOMPOSITION TEMPERATURE: Not applicable

VISCOSITY: Not applicable: solid substance

EXPLOSIVE PROPERTIES: Not explosive

OXIDISING PROPERTIES: Not oxidizing

MOLECULAR WEIGHT: Mixture

VOC CONTENT: No VOCs

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None known.

STABILITY: The product is stable and does not change under normal storage conditions.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Inhalation of dust and dermal exposure are the most significant routes of exposure in occupational and other settings. Incidental ingestion of dust may occur. Personal protective equipment and good hygiene can reduce these exposures significantly.

SYMPTOMS RELATED TO THE PHYSICAL, AND CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS: Exposure can irritate skin, eyes, throat, and nose. Hypersensitive individuals may develop an allergic dermatitis.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE: Hypersensitive individuals may develop allergic dermatitis. Quartz (crystalline silica) contamination of bentonite and pectine in excess of 2% may pose a risk for silicosis, a lung disease. This product contains less than <0.1% of silica. Prolonged and repeated inhalation of respirable crystalline silica-containing dust in excess of appropriate exposure limits has been associated with silicosis. Symptoms of silicosis may include, but are not limited to, the following: shortness of breath; difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure. Smoking may increase the risk of developing lung disorders, including emphysema and lung cancer. Not all individuals with silicosis will exhibit symptoms (signs) of the disease. However, silicosis can be progressive, and symptoms can appear at any time, even years after exposure has ceased. Persons with silicosis have an increased risk of pulmonary tuberculosis infection. Several studies of persons with silicosis also indicate an increased risk of developing lung cancer, a risk that increases with the duration of exposure. Some of these studies of silicosis do not account for lung cancer confounders, especially smoking.

ACUTE HEALTH HAZARDS

Bentonite:

Oral LD₀ (rat) : >5000 mg/kg of body weight
Dermal LD₀ (rabbit) : >2000 mg/kg
Inhalation LC₀ (rat) : >200 mg/L, 1 hr exposure
Dermal irritation/corrosivity (rabbit): Not Irritating
Eye irritation (rabbit): Mild irritant (Category 2B)

Piotine:

Oral LD₅₀ (rat) : No information found
Dermal LD₅₀ (rabbit): No information found
Inhalation LC₅₀ (rat) : No information found
Dermal irritation/corrosivity: No information found
Eye irritation: No information found

Tall oil, sodium salt:

Oral LD₅₀ (rat): No information found
Percutaneous LD₅₀ (rabbit): No information found
Inhalation LC₅₀ (rat): No information found
Dermal irritation/corrosivity (rabbit): No information found
Skin sensitization: Sensitizing in mouse Local Lymph Node Assay (Category 1B)
Eye irritation (rabbit): No information found

CHRONIC HEALTH HAZARDS: Crystalline silica can cause a lung condition known as silicosis after long term exposure to dusts containing crystalline silica. Exposure of workers to crystalline silica containing dusts is specifically regulated by OSHA. The use of a correctly fitted, NIOSH approved respirator suitable for use against crystalline silica inhalation is essential for minimizing exposure to this danger. No other chronic effects were identified due to the other ingredients or the mixture.

REPRODUCTIVE EFFECTS: No reproductive effects from piotine or sodium salt of tall oil were found in the literature. No effect on reproduction or development reported in studies of bentonite exposure in rats. Other ingredients present at less than 0.1% have not been associated with reproductive effects.

CARCINOGENICITY: Bentonite, piotine, and sodium salt of tall oil are not listed as a known or suspected carcinogen by OSHA, ACGIH, NTP, or IARC. This product contains silica which is a human carcinogen by OSHA, ACGIH, and IARC. Other ingredients present at less than 0.1% have not been reported to be carcinogenic. Respirable crystalline silica is classified as carcinogenic (Group 1) by IARC. NTP lists respirable crystalline silica as a "known human carcinogen." ACGIH lists respirable crystalline silica as a suspected human carcinogen (A2). These classifications are based on sufficient evidence of carcinogenicity in certain experimental animals and on selected epidemiological studies of workers exposed to crystalline silica.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No information found on ecological effects due to piotine or sodium salt of tall oil.

Bentonite LC₅₀ in Rainbow trout (*Oncorhynchus mykiss*) was >19,000 mg/L
Bentonite LC₅₀ in Spotted seatrout (*Cynoscion nebulosus*) >7500 mg/L

PHYTOTOXICITY: No information found

PERSISTENCE AND DEGRADABILITY: No information found

BIOACCUMULATIVE POTENTIAL: No information found

MOBILITY IN SOIL: No information found

OTHER EFFECTS: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: This product must be disposed of in accordance with applicable local, state and federal regulations. Where possible, it is best to use up any excess material.

RCRA HAZARD CLASS: The product is not listed under any section of the Federal Resource Conservation and Recovery Act (RCRA).

CALIFORNIA HAZARDOUS WASTE DESIGNATION California identifies substances with acute oral, acute dermal, or acute inhalation LD₅₀s less than 2,500, 4,300, or 10,000 mg/kg, respectively as "hazardous wastes." This product is therefore NOT a "hazardous waste" if spilled in California.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: The product is not a US Department of Transportation (DOT) Hazardous Material or Hazardous Substance.

OTHER AGENCIES: The product has no UN Number and is not regulated under international rail, highway, water, or air transport regulations.

SECTION 15: REGULATORY INFORMATION

TSCA NO.: All components of this product are listed on the TSCA inventory.

RCRA: Not listed as a hazardous waste under any sections of the Resource Conservation and Recovery Act or regulations (40) CFR 261 et seq.).

SUPERFUND: CERCLA/SARA. Not listed under CERCLA (the Comprehensive Environmental Response Compensation and Liability Act) or its 1986 amendments, SARA, (the Superfund Amendments and Reauthorization Act), including substances listed under Section 313 of SARA, Toxic Chemicals, 42 USC 11023, 40 CFR 372.65; Section 302 of SARA, Extremely Hazardous Substances, 42 USC 11002, 40 CFR 355; or the CERCLA Hazardous Substances list, 42 USC 9604, 40 CFR 302.

SAFE DRINKING WATER ACT: Not regulated under the SDWA, 42 USC 300g-1, 40 CFR 141 et seq.
Clean Water Act (Federal Water Pollution Control Act): 33 USC 1251 et seq.

- a.) Not a discharge covered by any water quality criteria of Section 304 of the CWA, 33USC 1314
- b.) It is not on the Section 307 List of Priority Pollutants, 33 USC 1317, 40 CFR 129
- c.) It is not on the Section 311 List of Hazardous Substances, 33 USC 1321, 40 CFR 116.

OSHA/CAL OSHA: This SDS document meets the requirements of both OSHA (29 CFR 1910.1200) and Cal OSHA (Title 8 CCR 5194(g)) hazard communication standards. Refer to Exposure Control/Personal Protection for regulatory exposure limits.

CALIFORNIA PROPOSITION 65: No ingredient is listed as a carcinogen or reproductive toxicant under California Proposition 65.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: This SDS was finalized on January 01, 2020 and is compliant with OSHA HCS/HazCom 2012 Final Rule. This replaces the previous version dated April 17, 2018.

DISCLAIMER: Information presented herein has been compiled from sources considered dependable and is accurate and reliable to the best of our knowledge and belief, but it is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and adopt necessary safety precautions. We make no warranty as to results to be obtained in using any material and, since conditions or use are not under our control, we must necessarily disclaim all liability with respect to use of any material supplied by us.