

1. IDENTIFICATION

Product Identifier

UDT Metallics

Other means of identification

Part Number(s)

493870, 493871, 493872, 493873, 493874, 493875,
493876, 493877, 493878, 493879, 493880, 493881

Recommended use of the chemical and restrictions on use

Recommended use

Decorative powder for epoxy floors; for professional use only

Uses advised against

Not intended for consumer use

Details of the supplier of the safety data sheet

Manufacturer Address

Ultra Durable Technologies
355 6th Ave. N
Waite Park, MN 56387
320-258-2266
Ultradtd.com

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2024 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Specific Target Organ Toxicity – Single Exposure, Respiratory	Category 3



Signal Word Warning

Hazard Statements

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

Precautionary Statements – Prevention

Wash hands, arms, face, and any exposed skin thoroughly after handling.
Wear eye and face protection and protective gloves.
Avoid breathing dust.
Use only outdoors or in a well-ventilated area.

Precautionary Statements – Response

IF ON SKIN: wash with plenty of soap and water. If skin irritation occurs, seek medical attention.
Take off contaminated clothing and wash before reuse or discard.
IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, seek medical attention.
IF INHALED: remove person to fresh air and keep comfortable for breathing. Seek medical attention if you feel unwell.
See Section 4, First Aid Measures, for more detailed information.

Precautionary Statements – Storage

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Precautionary Statements – Disposal

Dispose of contents and container to an approved waste disposal site in accordance with local, regional, national, and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS #	Weight %
Mica	12001-26-2	15 - 60
Ferric Oxide	1309-37-1	15 - 40

Trade Secret Statement (OSHA 1910.1200(i)) Specific chemical identities and concentrations for one or more listed chemicals are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

4. FIRST AID MEASURES**Description of first aid measures****Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting upper and lower eyelids. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if eye irritation persists.

Skin Contact

Wash skin thoroughly with soap and water after handling. Remove contaminated clothing and wash thoroughly before reuse or discard. Seek medical attention if irritation or rash develop.

Inhalation

Remove victim to fresh air and keep comfortable for breathing. If symptoms persist, seek medical advice. If experiencing breathing difficulties or not breathing, use artificial respiration to support vital functions. Seek medical attention immediately.

Ingestion

Rinse mouth with water. If product is swallowed, call physician or poison control center for most current information. Unless instructed otherwise by physician, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice.

Most important symptoms and effects, both acute and delayed

Pre-existing respiratory conditions may be aggravated. Continued or prolonged exposure may lead to damage of respiratory organs.

Immediate medical attention and special treatment, if necessary

If victim is experiencing trouble breathing or is unable to breathe, use artificial respiratory aid to support vital functions.

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Carbon dioxide. Dry powder. Water spray. Foam.

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical

Hazardous decomposition products include toxic fumes and oxides of carbon.

Protective equipment and precautions for firefighters

Evacuate area. Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment, and emergency procedures**

Ensure adequate ventilation, especially in confined areas. Avoid breathing dust.
Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene.
No open flames, no sparks, and no smoking.

Environmental precautions

Avoid release to the environment. Do not allow product to enter drains, sewers, public water, surface water, or groundwater. If contact is made, notify authorities.

Methods and material for containment and cleaning up

Use personal protective equipment as required. Stop flow of material if able to do so safely. Ensure adequate ventilation. Contain discharged material and avoid dust formation. Sweep or vacuum up spilled material and transfer to an appropriate waste disposal container. Gentle water spray may be used to minimize dust formation. Mop spill area and allow to air-dry.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear appropriate personal protective equipment – gloves, safety glasses, appropriate clothing. Wash hands, forearms, and face thoroughly after use. Practice good industrial hygiene when using product. Ensure good ventilation of the workstation. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Avoid contact with skin and eyes. Avoid breathing dust.

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store locked up in a cool, dry, well-ventilated place. Store away from direct sunlight. Keep container tightly closed when not in use.

Incompatible materials

No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

The use of local exhaust ventilation is recommended. Eyewash stations, chemical showers recommended.

Exposure Guidelines

Chemical Name	STEL	ACGIH TWA	OSHA TWA
Mica	3 mg/m ³	Not established	3 mg/m ³
Ferric Oxide	5 mg/m ³	Not established	5 mg/m ³

Individual protection measures, such as personal protective equipment

Eye/face protection	Protective eyewear (safety glasses).
Skin and body protection	Gloves. Protective clothing.
Respiratory protection	If adequate ventilation is not available, wear appropriate respirator for specific circumstances and with exposure guidelines in mind.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid Powder
Color	White, tan, brown, red, blue, gray, or black
Odor	None
Melting point	No information
Boiling point	No information
Flammability	No information
Upper flammability limit	No information
Lower flammability limit	No information
Flash point	No information
Autoignition Temperature	No information
Decomposition temperature	No information
pH	No information
Dynamic Viscosity	300 cP
Kinematic Viscosity	No information
Solubility	Soluble in water

Partition coefficient n-octanol/water (Log Pow)	No information
Vapor pressure	No information
Density	No information
Relative Density	No information

10. STABILITY AND REACTIVITY

Reactivity

The product is non-reactive under normal conditions of use, storage, and transport.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal conditions of use.

Conditions to avoid

Dust formation. If proper ventilation is unavailable, wear appropriate respiratory protection.
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Incompatible materials

Strong acids. Peroxides. Chloroformates.

Hazardous decomposition products

Thermal decomposition products include oxides of carbon and possible harmful vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Inhalation of dust
Eye contact	Dust
Skin contact	Dust
Ingestion	Dust

Symptoms related to the physical, chemical, and toxicological characteristics

May be irritating in contact with skin and eyes. May be irritating to mucus membranes.
Inhalation of dust may cause irritation or difficulty with breathing.

Delayed and immediate effects, including chronic effects from short- and long-term exposure

Skin irritation leading to rash and dryness.
Eye irritation leading to dryness.
Inhalation may cause irritation leading to breathing difficulty. Pre-existing respiratory conditions may be aggravated.

Numerical Values of Toxicity – Component Information

Chemical name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Mica	--	--	--
Ferric Oxide	> 10,000 mg/kg	--	--

Skin Corrosion/Irritation	May cause skin irritation leading to rash and dryness.
Serious Eye Damage/Irritation	May cause eye irritation.
Respiratory or Skin Sensitization	Not classified.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive Toxicity	Not classified.
STOT – Single Exposure	May cause damage to respiratory organs when inhaled.
STOT – Repeated Exposure	Not classified.
Aspiration Hazard	Not classified.

Numerical measures of toxicity – Product Information

Chemical name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
UDT Metallics	> 10,000 mg/kg	--	--

Acute Toxicity (oral)	Not classified
Acute Toxicity (dermal)	Not classified

Acute Toxicity (inhalation) Not classified

Interactive effects

Pre-existing skin conditions may be aggravated.

Pre-existing respiratory conditions may be aggravated. May cause damage to respiratory organs when inhaled.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not considered harmful to aquatic organisms with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Mica	--	--	--
Ferric Oxide	EC ₅₀ > 10,000 mg/L (3h, static)	--	EC ₅₀ > 100 mg/L (Daphnia magna, 48h, static)

Chemical name	Algae/aquatic plants	Fish	Crustacea
UDT Metallics	--	--	--

Persistence and degradability

No information available

Bioaccumulation Potential

Chemical Name	Partition Coefficient n-octanol/water (Log P _{ow})
Mica	Not established
Ferric Oxide	Not established

Assessment

Significant accumulation not expected.

Mobility in Soil

No information available.

Other adverse effects**Elimination information**

No information available.

Water hydrolysis

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods**Disposal of wastes**

Disposal of contents and container should be in accordance with applicable regional, national, and local laws and regulations. Do not discharge product into sewer system.

Contaminated packaging

Do not reuse container.

14. TRANSPORT INFORMATION

UN Number	Not applicable
UN Proper Shipping Name	Not applicable
Transport Hazard Class(es)	
DOT	Not applicable
IMDG	Not applicable
IATA	Not applicable
Packing Group	
DOT	Not applicable
IMDG	Not applicable
IATA	Not applicable
Environmental Hazards	None
Special Instructions for User	None

NOTE Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100-177, IMDG, IATA, EC, Canadian TDG, and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

15. REGULATORY INFORMATION

Chemical Inventories

TSCA

All components of this product are listed on the TSCA Inventory or are exempted from listing.

US Federal Regulations

SARA 313

Section 313 of the Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations. Part 372.

SARA 311/312

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No
Carcinogenicity	No
Respiratory or Skin Sensitization	No
Germ Cell Mutagenicity	No
Serious Eye Damage/Irritation	Yes

US State Regulations

California Proposition 65 – The product does not contain substances suspected by the State of California to cause cancer, developmental, and/or reproductive harm.

State Right to Know – Massachusetts, New Jersey, Pennsylvania

International Regulations

No information available.

NFPA Hazard Codes

Health	1
Fire	0
Reactivity	0

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Preparation Date	01-Jan-2023
Revision Date	22-September-2025
Revision Note	General formatting updates; updated Sections 1, 2, 3, 4, 8, 9, 11, 12, 14, and 15.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Shipping information may vary based upon container size and shipping destination. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. The manufacturer assumes no responsibility for injury to the recipient or third persons, or for any damages to any property resulting from misuse of the product.

End of Safety Data Sheet