

FORTRESS[®]

EPA Registration Number: 59807-19

P501

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name	Fortress®
Product type	Herbicide
EPA Registration No.	59807-19
Active Ingredient	Isoxaben + Dithiopyr

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Herbicide

Uses advised against: No information available

Details of the supplier of the safety data sheet

Company information	OHP, Inc.	
	PO Box 746	
	Bluffton, SC	29910-0746

Phone Number: (800) 659-6745

Emergency telephone numbers

TRANSPORTATION EMERGENCY

(24 hours a day) call: Chemtrec: 1-800-424-9300 MEDICAL EMERGENCY (24 hours a day) and Product Information call: 1-800-356-4647 SDS Information

or Request: ohp.com

2. HAZARDS IDENTIFICATION

Signal word: DANGER





Hazard statement(s): Carcinogenicity. Cat.1: H350: May cause cancer by inhalation. STOT Cat 2: H372: Causes damage to lungs through prolonged or repeated exposure by inhalation.

Precautionary

Statement(s).	
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P264	Wash thoroughly after handling
P280	Wear protective gloves and clothing.
P270	Do not eat, drink or smoke when using this product.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Dispose of contents/container in accordance with all local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS number	Concentration
Bentonite	1302-78-9	85-95%
Quartz (crystalline silica) (respirable <1%)	14808-60-7	0-1%

Non-Hazardous Component(s) *	CAS number	Concentration
Isoxaben	82558-50-7	0.5%
Dithiopyr	97886-45-8	0.25%

* Does not meet the definition of hazardous under Regulation §1910.1200

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If irritation or other symptoms occur, get medical attention.

- Skin contact No first aid should be needed.
- **Eye contact**: Immediately flush eyes with cool running water, lifting upper and lower lids. If irritation persists or for foreign body in the eye, get medical attention.
- **Ingestion**..... If used material is ingested, get medical attention due to possibility of chemical contamination. If large amount of unused material is swallowed, get immediate medical attention.

Most important symptoms/effects,

acute and delayed: Eye contact may cause mechanical irritation and possible eye injury. May cause mechanical skin and respiratory irritation. This product contains <1% respirable crystalline silica. May cause cancer if respirable dust is inhaled over prolonged periods. This product contains crystalline silica. Inhalation of respirable crystalline silica may cause lung disease, silicosis with symptoms of shortness of breath and cough.

Indication of immediate medical attention and special treatment needed,

if necessary: No immediate medical attention is required.



FORTRESS[®]

EPA Registration Number: 59807-19

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable)

extinguishing media: Use media that is appropriate for surrounding fire; unused product is not combustible.

Specific hazards arising from the chemical (e.g., nature of any hazardous

combustion products)....: No hazardous combustion products known.

Special protective equipment and precautions

for fire-fighters..... Firefighters should always wear self-contained breathing apparatus and full protective clothing for fires involving chemicals or in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures...: No special equipment is generally required for spill clean-up. For dusty conditions, an approved respirator may be needed. Refer to Section 8 for additional information.

Environmental Hazards...: Report releases as required by local and federal regulations.

Methods and material for containment and

cleaning up.....: Sweep up and collect unused material for re-use or disposal. For dusty conditions, an approved respirator may be needed. Refer to Section 8 for additional information.

7. HANDLING AND STORAGE

Precautions for safe

handling: Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Wash thoroughly with soap and water after use. If clothing becomes dusty, launder before re-use. Use only with adequate ventilation. Minimize the generation and accumulation of dust. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc. free from settled dust. Dry powders can build static electricity charges when subjected to friction of transfer and in mixing operations.

Conditions for safe storage, including

any incompatibilities....: Store in a dry area. Keep away from turpentine, hydrofluoric acid, vegetable oil, and other unsaturated organic compounds (such as fish oil), as this may generate heat and/or fire.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Chemical Name	Exposure Limits
Bentonite	15 mg/m3 PEL-TWA (total dust), 5 mg/m3 PEL-TWA (respirable dust)
Quartz (crystalline silica)	30 mg/m8 / %Si02+2 (total dust) TWA OSHA PEL
(Respirable <1%)	10 mg/m3 / %Si02+2 (respirable dust) TWA OHAPEL
	0.025 mg/m3 (respirable dust) TWA ACGIH TLV

Appropriate engineering

controls.....: General ventilation is adequate for normal use. If handling produces airborne dust, local exhaust ventilation may be needed.

Individual protection measures, such as personal protective equipment

Eye Protection: Safety glasses or goggles if needed to prevent eye contact.

Skin Protection: None required for normal use.

Respiratory Protection: None required for normal use. For operations where the dust concentration may be excessive, a dust respirator may be used. Follow OSHA regulations in the selection and use of respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state,

color, etc.).	Gray to Tan to Red Granular Solid
Odor	Not applicable
Odor threshold.	No applicable information available
рН:	No applicable information available
Melting point/ freezing point	No applicable information available
Initial boiling point and boiling range	No applicable information available



FORTRESS[®]

EPA Registration Number: 59807-19

	Flash point	No applicable information available
	Evaporation rate	No applicable information available
	Flammability (solid, gas) :	No applicable information available
	Upper/lower flammability	
	or explosive limits	No applicable information available
	Vapor pressure	No applicable information available
	Vapor density	No applicable information available
	Relative density	22
	Solubility(ies)	
	Partition coefficient: n-octanol/water	No applicable information available
	Auto-ignition temperature	No applicable information available
	Decomposition temperature	No applicable information available
	Viscosity	No applicable information available
10.	STABILITY AND REACTIV	
	Reactivity	der normal conditions.
	Chemical stability	This material is stable un- der normal conditions.
	Possibility of hazardous	
	can occur when this prod	uct is used to absorb high als having a high heat of
	Conditions to avoid (e.g., sta vibration)	
	Incompatible materials : acid, vegetable oil, fish oil, pounds.	Turpentine, hydrofluoric , unsaturated organic com-
	Hazardous decomposition	
	products	None known.

	11. TOXICOLOGICAL INFORMATION Acute Toxicity:		
	Silica	Acute Oral Toxicity (LD50) oral, rat	22,500 mg/kg bw
Inh	alation	Inhalat	ion of dust may
	caus tory t	e irritation to the eyes, nose, ract.	throat and respira-
	Skin co	ntact No kno	own hazard.
		itact Contactical, abrasive irritation with p	
	Ingestic	o n : No kno	own hazard.
	conc may talling latior cosis disea short	Effects Inhalate entrations of any dust, inclu- lead to lung injury. This pro- e silica, in the form of quar- n of respirable crystalline sil s, a progressive, disabling a ase of the lung. Symptoms r ness of breath, wheezing an function.	uding this material, duct contains crys- tz. Excessive inha- ica may cause sili- nd sometimes fatal nay include cough,
C	for F has form 1). C	enicity The International Internation	n Monograph IOOC ilica inhaled in the to humans (Group endent on inherent

1). Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. The National Toxicology Program (NTP) classifies crystalline silica as a known carcinogen. Applications and exposure data indicate that exposure to respirable quartz in this product with normal use is well below the OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV). The manufacturer is not aware of any scientific or medical data available indicating that exposure to respirable crystalline silica from this product under conditions of normal use will cause silicosis or cancer. Adverse effects would not be expected from normal use of this product.

12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial,

where available).........: No data available on the product. No adverse effects on the environment are expected

Silica: LC50 Fish (72h): Carp: >10,000 mg/L

Persistence and

degradability Bentonite and silica are non-degradable.



FORTRESS[®]

EPA Registration Number: 59807-19

Bioaccumulative potential .: Not bioaccumulative.
Mobility in soil No data available.
Other adverse effects: None currently known.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental Regulations. Unused material is suitable for disposal in sanitary landfill. Used material may be subject to regulation, depending on the nature of the material absorbed. Check with appropriate regulatory authority for used material containing hazardous waste.

14. TRANSPORT INFORMATION

UN number Not applicable
UN proper shipping name: Non-Classified
Transport hazard
class(es) Not applicable
Packing group Not applicable
Environmental hazards: Not applicable

Special precautions

for user Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code...: Not applicable

15. REGULATORY INFORMATION

- **TSCA**..... All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.
- **CERCLA** This product is not subject to CERCLA release reporting. Many states have more stringent reporting requirements. Report releases as required by local and state regulations.

RCRA: When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrositivity, or reactivity and is not listed in 40 CFR §261.33.

SARA TITLE III 302 Not listed

311/312 Hazard

Categories: This product has been reviewed according to the EPA "Hazard Categories" and is categorized as a chronic health hazard (40 CFR §370.41).

313 Reportable

- **Ingredients**: This product does not contain any materials listed in Section 313 of the Superfund Amendment and Reauthorization Act of 1986 (40 CFR §372).
- **California Proposition 65** . . : This product contains respirable crystalline silica which is known to the State of California to cause cancer.

16. OTHER INFORMATION, INCLUDING DATE OF REVISION OR LAST REVISION

Date of revision June 6, 2018

- **Disclaimer**: The information in this Safety Data Sheet relates to this specific material. It may not be valid for this material if used in combination with any other materials or in any process. It is the user's responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use. No warranty, expressed or implied, is made.
- **References** Prepared in compliance with Regulation §1910.1200.