

FUERTE™

EPA Registration Number: 59807-20

1. IDENTIFICATION

Product identifier

Trade name: Fuerte™
Product type: Herbicide
EPA Registration No.: 59807-20
Active Ingredients: Flumioxazin + Prodiamine
Details of the supplier of
Company information: OHP, Inc.
 PO Box 746
 Bluffton, SC 29910-0746
Phone Number: (800) 659-6745

Emergency telephone numbers

TRANSPORTATION: CHEMTREC
 1-800-424-9300

FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES: 1-800-356-4647

Product Information and SDS Information: 1-800-356-4647
 or see ohp.com

Contaminated work clothing must not be allowed out of the workplace.

Wash contaminated clothing before reuse.

If exposed or concerned: Get medical advice/attention.

If on skin: wash with plenty of water. If skin irritation or rash occurs: get medical advice/attention.

Store locked up.

P501 Dispose of contents/container in accordance with all local and national regulations.

2. HAZARD IDENTIFICATION

Signal word: **DANGER**

Symbol(s):



Hazard Statement(s): Carcinogenicity. Cat.1A:
 May cause cancer by inhalation.

Toxic to Reproduction. Cat.2: Suspected of damaging fertility or the unborn child.

Skin sensitization Cat 1: May cause an allergic skin reaction.

STOT Cat 1: Causes damage to lungs through prolonged or repeated exposure by inhalation.

Precautionary Statement(s): Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.
 Do not breathe dust.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves and clothing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS number	Concentration
Dolomite or Bentonite	16389-88-1 1302-78-9	>60%
Quartz (crystalline silica) (respirable <1%)	14808-60-7	>0.1%
Methylpyrrolidone	872-50-4	0.652-1.374%
Flumioxazin	103361-09-7	0.125%
Prodiamine*	29091-21-2	0.750%
Octylphenol Ethoxylate*	9036-19-5, 25332-68-3	< 1 %

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

4. FIRST-AID MEASURES

Inhalation:	Move to fresh air. If exposed or concerned or feel unwell, get medical attention/advice
Skin contact:	If on skin: wash with plenty of water. If skin irritation or rash occurs: get medical advice/attention.
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 exposed or concerned or feel unwell, get medical advice/attention.

Indication of immediate medical attention and special treatment needed, if necessary: This product contains

<1% respirable crystalline silica, which may cause silicosis and cancer if respirable dust is inhaled over prolonged periods.

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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)

.: When heated to decomposition, this product will emit toxic oxides.

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. Do not breathe dust. An approved respirator may be needed. Refer to Section 8 for additional information.

Environmental

Precautions: 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

.: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and clothing.

Contaminated work clothing must not be allowed out of the workplace. Wash contaminated clothing before reuse. 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 locked up. 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/m ³ PEL-TWA (total dust), 5 mg/m ³ PEL-TWA (respirable dust)
Quartz (crystalline silica) (Respirable <1%)	30 mg/m ³ / %SiO ₂ +2 (total dust) TWA OSHA PEL
	10 mg/m ³ / %SiO ₂ +2 (respirable dust) TWA OSHA PEL
	0.025 mg/m ³ (respirable dust) TWA ACGIH TLV
Methylpyrrolidone	10 ppm (TWA)

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.)

.: Greenish brown granular

Odor: Faint pleasant odor

Odor threshold.: No applicable information available

pH: No applicable information available

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**Melting point/
freezing point** No applicable information available

**Initial boiling point and
boiling range** No applicable information available

Flash point Not flammable.

Evaporation rate No applicable information available

Flammability (solid, gas) Not flammable.

**Upper/lower flammability or
explosive limits** No applicable information available

Vapor pressure No applicable information available

Vapor density Pour density 0.779 g/ml

Relative density Tap density 0.844 g/ml

Solubility(ies) No applicable information available

**Partition coefficient:
n-octanol/water** Insoluble

Auto-ignition temperature No applicable information available

**Decomposition
temperature** No applicable information available

Viscosity No applicable information available

10. STABILITY AND REACTIVITY

Reactivity This material is stable under normal conditions.

Chemical stability This material is stable under normal conditions.

**Possibility of hazardous
reactions** Spontaneous combustion can occur when this product is used to absorb high concentrations of chemicals having a high heat of absorption such as olefins, hydrochloric acid, etc.

**Conditions to avoid (e.g., static discharge,
shock, or vibration)** None known.

Incompatible materials Turpentine, hydrofluoric acid, vegetable oil, fish oil, unsaturated organic compounds.

**Hazardous decomposition
products** Toxic oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity May cause mechanical eye or skin irritation. May cause allergic skin reaction.

Chronic Effects Inhalation of excessive concentrations of any dust, including this material, may lead to lung injury. This product contains crystalline silica, in the form of quartz. Excessive inhalation of respirable crystalline silica may cause silicosis, a progressive, disabling and sometimes fatal disease of the lung. Symptoms may include cough, shortness of breath, wheezing and reduced pulmonary function.

Carcinogenicity The International Agency for Research on Cancer (IARC), in Monograph IOOC has concluded that crystalline silica inhaled in the form of quartz is carcinogenic to humans (Group 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.

**Persistence and
degradability** Bentonite and silica are non-degradable.

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.

FUERTE™**EPA Registration Number: 59807-20****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.**FIFRA: Federal Insecticide,
Fungicide and Rodenticide Act**

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This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Signal Word: CAUTION**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, corrosivity, 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** : Methylpyrrolidone**California Proposition 65**: This product contains respirable crystalline silica which is known to the State of California to cause cancer. This product contains N-Methylpyrrolidone which is known to the State of California to cause cancer or reproductive harm.**Right to Know**: Methylpyrrolidone
(CA, MA, NJ, PA)**16. OTHER INFORMATION****Date of revision**: December 21, 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 users' 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