

**Material Safety Data Sheet according to EU regulation No. 1907/2006-ZerO2 oxygen absorber**

**Product and company information**

**Product name:: ZerO2 oxygen scavengers**

Chemischer Name: eisenhaltige Verbindung  
CAS-Nummer: 7439-89-6

**Recommended use of the chemical and restrictions on use:**

Recommended use : Insect pest control

**Details of the product supplier providing this MSDS:**

Company:  
Long Life for Art  
Christoph Waller  
Hauptstrasse 47  
Germany - 79356 Eichstetten  
Tel.: + 49-7663 608 990  
info@llfa.de

**Emergency call:**

International emergency number: 112  
Telephone: +49 173 9149467

**Hazards Identification**

**Globally Harmonized System of Classification and Labelling of Chemicals (GHS)**

Physical hazard : Not applicable  
Health hazard : Not applicable  
Environment hazard : Not applicable

**Label elements including precautionary statements**

Symbol : Not applicable  
Signal word : Not applicable  
Hazard statements : Not applicable  
Precautionary statements : Not applicable

**NFPA Rating**

Health : 0 Flammability : 0 Reactivity : 0 Water reactivity : 0

### Composition/information on ingredients

Ingredients	CAS Nr.	EINECS Nr.	Weight- %
Iron	7439-89-6	231-096-4	54
Carbon	7440-44-0	231-153-3	18
Vermiculite	1318-00-9	-	3
Polyacrylic acid, sodium salt	9003-04-7	-	2
Sodium chloride	7647-14-5	231-598-3	2
Nylon-6	25038-54-4	-	1
Polypropylene	9003-07-0	-	2
Water	7732-18-5	231-791-2	18

- Appearance form : Flexible sealed packs

### First Aid Measures

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### In case of skin contact

In case of contact with powder inside the pack, wash off with soap and plenty of water.

#### If inhaled

If breathed in, move person into fresh air.

If not breathing, give artificial respiration.

#### If swallowed

Never give anything by mouth to an unconscious person.

#### Other medical attention

Medical personnel should be aware of the protective measures of the substance.

#### Potential health effect

May be harmful if swallowed.

May be harmful if contact with powder inside this product.

### Fire-fighting measures

#### Flammable properties

Flash point : No flash occurred under 110 °C (Rapid equilibrium method)

Autoignition temperature : No spontaneous combustion under 300 °C

Burning time : Did not ignite. (UN TDG test & criteria - Test N1)

#### Suitable extinguisher

Water spray, alcohol-resistant foam, dry chemical, carbon dioxide

#### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for fire fighting if necessary.

### Accidental release information

#### Personal precautions

Avoid breathing dust.

#### Environmental precautions

Don't dispose the product into drainages.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposed materials without creating dust.

### Handling and storage

#### Personal for safe handling

Don't destroy or decompose this product

Avoid powder contact inside this product with sin and eyes.

Provide appopriate exhaust ventilation at places where dust is formed.

#### Conditions for safe storage

Keep away from sources of ignition.

### Exposure control/personal protection

#### Components with workplace control parameters

KOSHA: Chemical name TWA STEL

Iron 1 mg/m<sup>3</sup>, Soluble, salts -

**Appropriate engineering controls:** No data available

#### Personal protective equipment

Respiratory protection: Approved dust mask

Eye protection: Protective goggles

Hand protection: Protective gloves

Skin and body protection: Working clothes

### Physical and chemical properties

**State:** Solid at 20°C

**Appearance form:** Flexible sealed packs

**pH:** 10.26 at 20°C

**Flash point:** No flash occurred under 110°C (Rapid equilibrium method)

**Autoignition temperature:** No spontaneous combustion under 300°C

**Water solubility:** Water Insoluble at 20°C

**Density(Apparent):** 1.2 ~ 1.5 at 20°C

**Melting range:** > 150°C

#### Flammability

Burning time: Did not ignite.

#### Explosive properties

No self-reaction hazard

### Stability and reactivity

#### Chemical stability

Stable under recommended storage condition

#### Conditions to avoid

Avoid dust formation

#### Materials to avoid

Strong acids and bases

#### Hazardous decomposition products

Carbon oxides

### Toxicological information

#### Skin irritation

Irritating (Sodium chloride)

#### Eye irritation

Irritating (Sodium chloride)

### Disposal considerations

#### Disposal consideration

Observe all environmental regulations

#### Disposal precaution

Don't dispose the product into drainages

### Transport information

**UN TDG:** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

**Marine pollution:** Not applicable

#### Special precaution

Fire EmS Guide (Recommendation): F-A

Spillage EmS Guide (Recommendation): Not dangerous goods