

# SAFETY DATA SHEET Ultrox S, Ultrox S+, Ultrox S+K, Ultrox Z+

#### 1. Identification

**Product identifier** 

Product name

Ultrox S, Ultrox S+, Ultrox S+K, Ultrox Z+

**Product number** 51415,51451,51451(K),51453

Recommended use of the chemical and restrictions on use

**Application** Ceramic

Details of the supplier of the safety data sheet

Supplier

Supplier: Trebol Florida LLC

11400 New Berlin Road

Jacksonville Florida 32226 USA

Tel. ++1 904 751 2828 Fax ++1 904 751 6828

Emergency telephone number

Emergency telephone ++1 904 607 3011

## 2. Hazard(s) identification

# Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Carc. 1A - H350 STOT RE 1 - H372

Environmental hazards Not Classified

# Label elements

#### **Pictogram**



Signal word Danger

Hazard statements H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements** P201 Obtain special instructions before use.

P260 Do not breathe vapor/spray.

P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P405 Store locked up.

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

Contains Crystalline Silica / Silicon Dioxide

## 3. Composition/information on ingredients

#### **Mixtures**

Zirconium silicate 95 - 100%

CAS number: 14940-68-2

Classification
Not Classified

## Crystalline Silica / Silicon Dioxide

1 - 4%

CAS number: 14808-60-7

Classification
Carc. 1A - H350
STOT RE 1 - H372

The Full Text for all Hazard Statements are Displayed in Section 16.

#### 4. First-aid measures

# Description of first aid measures

**Inhalation** Move affected person to fresh air at once.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under

observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet

to the medical personnel.

**Skin Contact** Remove contaminated clothing and rinse skin thoroughly with water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after

washing. Show this Safety Data Sheet to the medical personnel.

# Most important symptoms and effects, both acute and delayed

General information Not available.

#### Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

## 5.Fire-fighting measures

## Extinguishing media

Suitable extinguishing media The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

None.

media

## Special hazards arising from the substance or mixture

None. No unusual fire or explosion hazards noted. Specific hazards

Hazardous combustion

products

No known hazardous decomposition products.

Advice for firefighters

Protective actions during

firefighting

No specific firefighting precautions known.

Special protective equipment

Use protective equipment appropriate for surrounding materials.

for firefighters

# 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Ensure suitable respiratory protection is worn during removal of spillages in confined areas. Personal precautions

For personal protection, see Section 8.

**Environmental precautions** 

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

## Methods and material for containment and cleaning up

Methods for cleaning up Collect powder using special dust vacuum cleaner with High-Efficiency Particulate Arrestance

(HEPA) vacuum filter or carefully sweep into suitable waste disposal containers and seal

securely. Wash thoroughly after dealing with a spillage.

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

# 7. Handling and storage

## Precautions for safe handling

Usage precautions Good personal hygiene procedures should be implemented. Use mechanical ventilation if

there is a risk of handling causing formation of airborne dust. Avoid eating, drinking and

smoking when using the product.

## Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container. Store locked up. Keep container dry.

Specific end uses(s)

Specific end use(s) Not known.

# 8. Exposure Controls/personal protection

## Control parameters

## Occupational exposure limits

#### Zirconium silicate

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m<sup>3</sup> Short-term exposure limit (15-minute): ACGIH 10 mg/m<sup>3</sup> Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup> Short-term exposure limit (15-minute): OSHA 10 mg/m³

# Crystalline Silica / Silicon Dioxide

Long-term exposure limit (8-hour TWA): ACGIH 0.025 mg/m³ respirable fraction

Α2

Long-term exposure limit (8-hour TWA): OSHA 0.05 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

A2 = Suspected Human Carcinogen.

OSHA = Occupational Safety and Health Administration.

## **Exposure controls**

Appropriate engineering

controls

Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure

limits for the product or ingredients.

**Eye/face protection** Wear tight-fitting, dust-resistant, chemical splash goggles if airborne dust is generated.

**Hand protection** For prolonged or repeated skin contact use suitable protective gloves.

Other skin and body

protection

No specific recommendations.

**Respiratory protection** If respiratory protection is necessary, respirator usage is recommended as follows: A NIOSH-

approved tight fit respirator with an organic vapor cartridge and an N, R or P100 filter should

be worn, or an air supplied full face respirator or hood should be worn.

Thermal hazards Not relevant.

#### 9. Physical and Chemical Properties

## Information on basic physical and chemical properties

**Appearance** Powder.

Color White/off-white.

Odor Odorless.

Odor threshold Not applicable.

pH (concentrated solution): ~ 6.3

Melting point 2550°C

Initial boiling point and range Not available.

Flash point Not applicable.

**Evaporation rate** Not applicable.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Not applicable.

Vapour pressure Not applicable.

Vapour density Not applicable.

Relative density 4.6 g/ml @ °C

Solubility(ies) Insoluble in water.

Partition coefficient Not applicable.

Auto-ignition temperature Not applicable.

**Decomposition Temperature** Not applicable.

Viscosity Not applicable.

**Explosive properties** Not considered to be explosive.

Other information None.

## 10. Stability and reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

**Stability** No particular stability concerns.

Possibility of hazardous

reactions

Not known. Will not polymerize.

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

Materials to avoid

No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

Hazardous decomposition

products

No known hazardous decomposition products.

#### 11. Toxicological information

## Information on toxicological effects

General information Zirconium Silicate contains small quantities of radioactive isotopes of Uranium and Thorium.

The average concentrations in Zirconium Silicate are 300 ppm of Uranium and 180 ppm of Thorium. The radioactivity of Zirconium Silicate is due to it's natural radionuclides which are not processed, and which have not been processed, in view of their radioactive, fissile or

fertile properties.

Work activities involving Zirconium Silicates are regulated under a specific regulation (Council Directive 96/29/EURATOM of 13 May 1996), which is different to that concerning radioactive substances. This Directive, establishes the need to assess the radiation exposure to which workers are or may be exposed. The radiation level established by the International Commission on Radiological Protection (ICRP) sets an annual radiation dose of 1 mSv over which physical surveillance of workers becomes required. This value has been adopted by the

Studies c have concluded that when workers exposure to Zirconium Silicate is continuous

(2000 hours per year), the radiation dose may reach 1 mSv over the year.

Prolonged and/or massive exposure to respirable crystaline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable

particles of crystalline silica. IARC Classification Group 1: human carcinogenic.

Skin Contact Skin irritation should not occur when used as recommended.

Commission of the European Communities.

**Eye contact** Particles in the eyes may cause irritation and smarting.

Acute and chronic health

hazards

Inhalation

Frequent inhalation of dust over a long period of time increases the risk of developing lung

diseases.

# Toxicological information on ingredients.

## Zirconium silicate

Carcinogenicity

IARC carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

# Crystalline Silica / Silicon Dioxide

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Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

NTP carcinogenicity Known human carcinogen.

OSHA Carcinogenicity Not listed.

12. Ecological Information

**Ecotoxicity** There are no data on the ecotoxicity of this product. The product components are not

classified as environmentally hazardous. However, large or frequent spills may have

hazardous effects on the environment.

**Toxicity** 

**Toxicity** Not considered toxic to fish.

Acute toxicity - fish Not available.

Acute toxicity - aquatic

invertebrates

Not available.

Acute toxicity - aquatic plants Not available.

Acute toxicity - microorganisms

Not available.

Acute toxicity - terrestrial

Not available.

Persistence and degradability

Persistence and degradability The product is not biodegradable.

Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

Partition coefficient Not applicable.

Mobility in soil

Mobility Not known.

Results of PBT and vPvB assessment

Results of PBT and vPvB

Not applicable.

assessment

Other adverse effects

Other adverse effects Not available.

13. Disposal considerations

Waste treatment methods

Disposal methods Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site

in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, DoT).

**UN Number** 

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# Ultrox S, Ultrox S+, Ultrox S+K, Ultrox Z+

Not applicable.

# UN proper shipping name

Not applicable.

## Transport hazard class(es)

No transport warning sign required.

# Packing group

Not applicable.

#### **Environmental hazards**

## **Environmentally Hazardous Substance**

No.

## Special precautions for user

Not applicable.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## 15. Regulatory information

Regulatory Status Not subject to the provisions of SARA 313 Title III. Not subject to TSCA Export Notification

Section 12b.

## **US Federal Regulations**

## SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

#### SARA 313 Emission Reporting

None of the ingredients are listed or exempt.

## **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

# **US State Regulations**

## California Proposition 65 Carcinogens and Reproductive Toxins

The following ingredients are listed or exempt:

Crystalline Silica / Silicon Dioxide

#### California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed or exempt.

## California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

#### California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

Crystalline Silica / Silicon Dioxide

## Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

Crystalline Silica / Silicon Dioxide

## Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

Crystalline Silica / Silicon Dioxide

## Minnesota "Right To Know" List

The following ingredients are listed or exempt:

Crystalline Silica / Silicon Dioxide

## New Jersey "Right To Know" List

The following ingredients are listed or exempt:

Crystalline Silica / Silicon Dioxide

## Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

Crystalline Silica / Silicon Dioxide

## Inventories

## **EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

#### Canada - DSL/NDSL

All the ingredients are listed or exempt.

#### US - TSCA

All the ingredients are listed or exempt.

## US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

# Australia - AICS

All the ingredients are listed or exempt.

## Japan - MITI

None of the ingredients are listed or exempt.

## Korea - KECI

All the ingredients are listed or exempt.

## China - IECSC

All the ingredients are listed or exempt.

## Philippines - PICCS

All the ingredients are listed or exempt.

# New Zealand - NZIOC

None of the ingredients are listed or exempt.

# 16. Other information

Revision date 6/17/2016

Revision 9

Supersedes date 3/23/2016

Hazard statements in full H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H372 Causes damage to organs (Respiratory system, lungs) through prolonged or repeated

exposure if inhaled.

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