1. Identification

# SAFETY DATA SHEET



Distributed by: Laguna Clay Company 14400 Lomitas Ave City of Industry, CA 91746 1-800-4Laguna info@lagunaclay.com www.lagunaclay.com

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

Product identifier	
Product name	Ultrox S, Ultrox S+, Ultrox S+K, Ultrox Z+
Product number	7147, 7148, 7150, 7152, 7154, 7155, 7157, 7159
Recommended use of the c	hemical and restrictions on use
Application	Ceramic
Details of the supplier of the	e 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 numb	ber
Emergency Phone Numbers	s: Chemtrec: (800) 424-9300 (24 hrs) or (703) 527-3887
	Medical Poison Control Center: (800) 222-1222 (24 hrs)
2. Hazard(s) identification	
Classification of the substan	nce 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.
nazara olatomonto	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.
<b>.</b> .	
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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.
Crystalline Silica / Silicon Dioxide

#### Contains

#### 3. Composition/information on ingredients

Zirconium silicate       95 - 100%         CAS number: 14940-68-2       Classification Not         classified       1         Crystalline Silica / Silicon Dioxide       1 - 4%         CAS number: 14808-60-7       1 - 4%         Classification       2         Carc. 1A - H350       5TOT RE 1 - H372         The Full Text for all Hazard Statements are Displayed in Section 16.       4	Mixtures	
classified         Crystalline Silica / Silicon Dioxide       1 - 4%         CAS number: 14808-60-7       1 - 4%         Classification       Carc. 1A - H350         STOT RE 1 - H372       The Full Text for all Hazard Statements are Displayed in Section 16.		95 - 100%
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.		
Carc. 1A - H350 STOT RE 1 - H372 The Full Text for all Hazard Statements are Displayed in Section 16.		1 - 4%
	Carc. 1A - H350	

### 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

Specific hazards

None. No unusual fire or explosion hazards noted.

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Hazardous combustion products	No known hazardous decomposition products.		
Advice for firefighters Protective actions during firefighting	No specific firefighting precautions known.		
Special protective equipment materials for firefighters	Use protective equipment appropriate for surrounding		
6. Accidental release measure	s		
Personal precautions, protectiv	ve equipment and emergency procedures		
Personal precautions	Ensure suitable respiratory protection is worn during removal of spillages in confined areas. 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 conta	ainment 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, in			
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 Occupation	nal exposure limits		
Zirconium silicate			
Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³			
Short-term exposure limit (15-minute): ACGIH 10 mg/m³			
Long-term exposure limit (8-ho			
Short-term exposure limit (15-r	minute): OSHA 10 mg/m <sup>3</sup>		
Crystalline Silica / Silicon Diox	ide		
Long-term exposure limit (8-ho A2	our TWA): ACGIH 0.025 mg/m <sup>3</sup> respirable fraction		
Long-term exposure limit (8-ho	Long-term exposure limit (8-hour TWA): OSHA 0.05 mg/m³		
ACGIH = American Conference	ACGIH = American Conference of Governmental Industrial Hygienists.		
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A2 = Suspected Human Carcinogen. OSHA = Occupational Safety and Health Administration.

9. Physical and Chemical Properties	
Thermal hazards	Not relevant.
	be worn, or an air supplied full face respirator or hood should be worn.
	approved tight fit respirator with an organic vapor cartridge and an N, R or P100 filter should
Respiratory protection	If respiratory protection is necessary, respirator usage is recommended as follows: A NIOSH
protection	
Other skin and body	No specific recommendations.
Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
Eye/face protection	Wear tight-fitting, dust-resistant, chemical splash goggles if airborne dust is generated.
controls	limits for the product or ingredients.
Appropriate engineering	Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure
Exposure controls	

#### Information on basic physical and chemical properties

mormation on basic physical and one	
Appearance	Powder.
Color	White/off-white.
Odor	Odorless.
Odor threshold	Not applicable.
рН	pH (concentrated solution): $\sim 6.3$
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	Not applicable.
limits	
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	

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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

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 Commission of the European Communities. 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.

#### Inhalation

Zirconium Silicate	
contains small quantities	
of radioactive isotopes	Skin Contact
of Uranium and	Eye contact
Thorium. The average	Acute and chronic health hazards
concentrations in	
Zirconium Silicate are	
300 ppm of Uranium	
and 180 ppm of	Prolonged and/or massive exposure to respirable crystaline silica-containing dust may cause
Thorium. The	silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable
radioactivity of	particles of crystalline silica. IARC Classification Group 1: human carcinogenic.
Zirconium Silicate is due	
to it's natural	

Skin irritation should not occur when used as recommended.

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

 may cause irritation and seases.
 diseases.

 smarting.
 Toxicological information on irredients.

 Zirconium silicate
 Eine Sease

<b>Carcinogenicity</b>		
IARC carcinoge	nicity	Not listed.
OSHA Carcinog	enicity	Not listed.
		Crystalline Silica / Silicon Dioxide
Carcinogenicity		
IARC carcinoger	nicity	IARC Group 1 Carcinogenic to humans.
NTP carcinogen	icity	Known human carcinogen.
OSHA Carcinog	enicity	Not listed.
12. Ecological Information		
Ecotoxicity	There a	are no data on the ecotoxicity of this product. The product components are
	not clas	ssified as environmentally hazardous. However, large or frequent spills may
	have ha	azardous effects on the environment.
<u>Toxicity</u> Toxicity	Not cor	nsidered toxic to fish.
-		
Acute toxicity - fish	Not ava	
Acute toxicity - aquatic	Not ava	ailable.
invertebrates	Not our	
Acute toxicity - aquatic plants		
Acute toxicity microorganisms	Not ava	aliadie.
Acute toxicity - terrestrial	Not ava	ailable.
Persistence and degradability	<u>'</u>	
Persistence and degradability	The pro	oduct is not biodegradable.
Bioaccumulative potential		
Bio-Accumulative Potential	No data	a available on bioaccumulation.
Partition coefficient	Not app	blicable.
Mobility in soil		
Mobility	Not kno	own.
Results of PBT and vPvB ass	<u>essment</u>	
Results of PBT and vPvB	Not app	blicable.
assessment		

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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).
JN Number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Fransport hazard class(es)	
No transport warning sign requ	uired.
Packing group	
Not applicable.	
Environmental hazards	
Environmentally Hazardous Si	ubstance
No.	
Special precautions for user	
Not applicable.	
Transport in bulk according to Annex II of MARPOL 73/78	Not applicable.
and the IBC Code	
5. Regulatory information	
Regulatory Status	Not subject to the provisions of SARA 313 Title III. Not subject to TSCA Export Notification
	Section 12b.
JS Federal Regulations	
	Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are lis	-
SARA 313 Emission Reporting	]
None of the ingredients are lis	
OSHA Highly Hazardous Cher	nicals
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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** 

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All the ingredients are listed or exempt.

#### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

### Australia - AICS

Japan - MITI

All the ingredients are listed or exempt.

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	12/04/2018
Revision	10
Supersedes date	6/17/2016
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.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.