ULTRA-TEK AL

SAFETY DATA SHEET

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MT. SAVAGE SPECIALTY REFRACTORIES CO., INC.

736 WEST INGOMAR ROAD INGOMAR, PA 15127 GENERAL PHONE:

(412)367-9100

PREPARED BY: REVISION DATE: Manager of Quality Assurance 04/22/15

SUPERCEDES DATE:

06/04/07

SECTION 1 - Identification of the substance or mixture and of the supplier

1.1 Product Identifier

Product Form:

Mixture

Product name:

ULTRA-TEK AL products (60, 65, 70, 80, 93)

CAS Number:

Mixture

Common name:

Low Cement Aluminum Resistant Refractory Concrete

1.2 Recommended use and restrictions on use

Use of the mixture:

Refractory

1.3 Supplier's details

Mt. Savage Specialty Refractories Co., Inc. 736 West Ingomar Road, Ingomar, PA 15127

Phone Number: (412)367-9100

1.4 Emergency phone number

Josiah Goetz:

301-264-3595 x. 101

301-707-9511 (after hours, weekends and Holidays)

SECTION 2 - Hazards Identification

2.1 Classification of the substance/mixture

GHS-US classification

Skin Irritant 2

H315

Eye Irritant 2B

H320

Carcinogen 1A

H350

See Section 16 for the full text of the H-phrases.

2.2 Label elements, including precautionary statements

GHS-US labelling

Hazard Symbols (GHS-US)





Signal word (GHS-US)

DANGER

Hazard statements (GHS-US)

H315 - Causes skin irritation

H320 - Causes eye irritation

H350 - May cause cancer (inhalation)

Precautionary statements (GHS-US)

P280 – Wear eye protection, respirator, and protective gloves

P305/P351/P338 – If in eyes: Rinse carefully with water for several minutes. If wearing

contact lenses, remove if easy to do and continue to rinse. P332/P313 – If irritation of skin occurs: seek medical attention. P337/P313 – If irritation of the eyes occurs: seek medical attention.

P260 - Do not breathe dust.

2.3 Other Hazards

No additional information available

SECTION 3 – Composition/Information on ingredients

3.1 Substance

Not Applicable

3.2 Mixture

4.2

INGREDIENT	CAS NO.	WEIGHT%	OSHA/PEL	ACGIH TLV	CARCINOGEN	
Crystalline Silica as be	low				NTP – Yes	
Cristobalite Quartz Tridymite	14464-46-1 14808-60-7 15468-32-3	0 – 5 1 - 15 not detected	0.05 mg/M ³ (resp) 0.1 mg/M ³ (resp) 0.05 mg/M ³ (resp)	0.025 mg/M³ (re 0.1 mg/M³ (resp 0.025 mg/M³ (re	o)	
Calcium Aluminate Cement						
	65997-16-2	2 - 10	5 mg/M³ (resp) 15 mg/M³ (total)	3 mg/M³ (resp)		
Mineral Additive		5 - 20	5 mg/M ³ (resp) 15 mg/M ³ (total)	5 mg/M ³ (resp)	NO	

SECTION 4 - First Aid Measures

4.1 Description of First Aid measures

EYE CONTACT:

Immediately flush eyes with water or eyewash solution, if wearing contact lenses,

remove if easy to do so. If irritation continues, seek medical attention.

SKIN CONTACT: Immediately wash with soap and water, if irritation continues, seek medical attention.

INHALATION: INGESTION:

Move victim to fresh air, seek immediate medical attention.

Do not induce vomiting, seek immediate medical attention.

Most important symptoms/effects, acute and delayed EYE CONTACT:

Causes eye irritation

SKIN CONTACT: Causes skin irritation

INHALATION:

May cause cancer, danger of serious damage to health by prolonged exposure

Indication of immediate medical attention and special treatment needed 4.3 No additional information available

SECTION 5 - Fire-fighting Measures

5.1 Suitable/unsuitable extinguishing media

Suitable:

Use extinguishing media appropriate for surrounding fire

Unsuitable:

No additional information available

5.2 Specific hazards arising from the mixture

Fire hazard:

Not flammable, no applicable flash point

Reactivity:

Hydraulic Setting

5.3 Special protective equipment and precautions for firefighters

Protection:

Wear appropriate firefighting protective gear for surrounding fire.

Precautions:

Hardened concrete which has not been properly dried/mixed is subject to explosion

upon rapid heating due to internal steam pressure/spalling.

SECTION 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Do not breathe dust.

Protective equipment:

Equip cleanup crew with proper protective equipment.

Emergency procedures:

Ventilate the area of accidental release.

6.2 Environmental precautions

Prevent entry into sewers, storm drains, and public waters.

6.3 Methods and material for containment and cleaning up

If there is an accidental release of this product during handling, all released product should be gently swept or vacuumed into a sealed container. All personnel engaged in cleanup of the release should adhere to the personal protection guidelines outlined in Section 8. Wastes should be disposed of according to the disposal guidelines outlined in Section 13.

SECTION 7 - Handling and Storage

7.1 Precautions for safe handling

Minimize dust generation and avoid contact and inhalation of product. Proper protective clothing, approved respiratory protection, safety glasses, and impervious gloves and boots should be worn to minimize exposure. Wash skin and clothing with soap and water after exposure/contact with material.

7.2 Conditions for safe storage, including any incompatibilities

To ensure product quality, store product in a dry location protected from the elements. Ensure shrink-wrap on pallet is kept intact until installation.

This mixture is incompatible with strong bases and strong acids.

SECTION 8 - Exposure Controls/Personal Protection Equipment (PPE)

8.1 Control parameters

Ultra-Tek AL (Mixture)

ACGIH: Not

Not applicable

OSHA:

Not applicable

Cristobalite(14464-46-1)

ACGIH:

0.025 mg/M³ (resp)

OSHA:

 $0.05 \text{ mg/M}^3 \text{ (resp)}$

Quartz(14808-60-7)

ACGIH:

0.025 mg/M3 (resp)

OSHA:

0.1 mg/M³ (resp)

Tridymite(15468-32-3)

ACGIH:

0.025 mg/M³ (resp)

OSHA:

 $0.05 \text{ mg/M}^3 \text{ (resp)}$

Calcium Aluminate Cement(65997-16-2)

ACGIH:

5 mg/M³ (resp)

OSHA:

3 mg/M³ (resp)

Mineral Additive

ACGIH:

5 mg/M³ (resp)

OSHA:

5 mg/M³ (resp)

8.2 Appropriate engineering controls

Engineering Controls:

Local and Mechanical Ventilation, OSHA STD 29 CFR 1910.94

8.3 Individual protection measures, such as PPE

RESPIRATORY PROTECTION:

Ventilation should be provided when dust is created in conjunction with the use of product. If used material is being removed, it should be wetted down to reduce dust creation. When dust is present, during installation or removal, personnel should use

respiratory protection, in compliance with OSHA STD 29 CFR 1910.134.

EYE PROTECTION:

Safety glasses or goggles, as required by individual situation.

PROTECTIVE GLOVES:

Protective gloves to limit exposure/direct skin contact.

OTHER PPE:

Protective clothing to limit exposure/direct skin contact and any other PPE as required

to meet applicable OSHA standards.

SECTION 9 - Physical and chemical properties

9.1 Information on physical and chemical properties

Appearance:

Granular solid, gray to black

Odour:

No distinct odor

Odour Threshold:

Not applicable

PH:

Slightly basic

Melting Point:

>2000°F

Freezing Point:

Not applicable

Boiling Point:

Not applicable

Flash Point:

Not applicable

Evaporation Rate:

Not applicable

Flammability (solid, gas):

None

Explosive limits:

Not applicable

Vapour pressure:

Not applicable Not applicable

Vapour density: Relative Density:

 $2.2 - 3.2 (H_2O = 1)$

Solubility:

Negligible

Log Pow:

No data available

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Log Kow:

No data available

Viscosity, kinematic:

Not applicable

Viscosity, dynamic:

Not applicable

Auto-ignition temp.: Decomposition temp.:

No data available

No data available

9.2 Other information

No additional information available

		SECTION 10 – Stability and Reactivity
10.1	Chemical stability	·
		Stable
10.2	Reactivity	
		Hydraulic Setting
10.3	.3 Possibility of hazardous reactions	
		No data available
10.4	Conditions to avoid	
		Avoid dust formation
10.5	Incompatible materials	
		None
10.6	Hazardous decomposition	products
		No data available

SECTION 11 - Toxicological Information

11.1 Information on toxicological effects

SHORT TERM TOXICITY:

Exposure to material may cause irritation/discomfort to the eyes, skin, nose, throat or

lungs, and may aggravate existing respiratory conditions.

LONG TERM TOXICITY:

Exposure to material may cause silicosis (lung disease) and possibly lung cancer.

SECTION 12 – Ecological Information

12.1 Toxicity

This product is composed primarily of earth minerals and is not expected to have an ecotoxic effect other than that associated with the lime in the cement.

12.2 Persistence and degradability

Not applicable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No known ecological damage caused by this product, however avoid release into the environment.

SECTION 13 - Disposal Considerations

13.1 Waste disposal methods

Dispose in accordance with federal, state and local regulations. EPA (40 CFR 261)

SECTION 14 - Transport Information

14.1 Transport information

DOT (49 CFR 172.101): Not Regulated UN/NA (49 CFR 172.101): Not Applicable

SECTION 15 - Regulatory Information

15.1 Safety, health, and environmental regulations specific for the mixture

Canadian WHMIS - D2A

SARA 313 - not subject to reporting

OSHA 29 CFR 1910.1200 - considered hazardous

SARA Hazard Category – "Chronic Health Hazard"

EPCRA Section 302 (Extremely Hazardous Substances) - not listed

California Prop. 65 – "Contains crystalline silica an ingredient known to cause cancer."

CERCLA Section 304 (Title III) - not subject to reporting

SECTION 16 - Other Information

16.1 Other information

Full text of H-phrases:

Carcinogen 1A: Carcinogenicity, Category 1A

Eye Irritation 2B: Serious eye damage/irritation, Category 2B

Skin Irritation 2: Skin corrosion/irritation, category 2

H315: Causes skin irritation
H320: Causes eye irritation
H350: May cause cancer

This information is given in good faith. Suitability of the product for the application and installation conditions are critical to the safety of the product. These conditions are subject to the control of the user and all risks of use of the product are assumed by the user. For guidance on use in specific applications consult MT. SAVAGE SPECIALTY REFRACTORIES CO., INC.