

1. Identification of the product and of the company/undertaking

1.1 Product identifier

UNITEC PLANTEX® SunFire™ Ceramic

1.2 Relevant identified uses of the substance or mixture and uses advised against

Coated abrasives for grinding / sanding of different kinds of materials.

1.3 Details of the supplier of the safety data sheet

Company name: **C.S. UNITEC INC.**
Street: 22 Harbor Avenue
Place: US NORWALK CT 06850
Telephone: 001 2038539522
e-mail: info@csunitec.com

1.4 Emergency telephone number

Telephone: 001 203 8539522

2. Hazards identification

2.1 Classification of the substance or mixture

Not applicable.

Abrasives are articles and not dangerous substances or mixtures according to Regulation (EC) N° 1272/2008. See also section 8 and 16.

2.2 Label elements

Abrasives are articles and not dangerous substances or mixtures and therefore no labelling is required according to Regulation (EC) N° 1272/2008

2.3 Other hazards

No information available.

3. Composition/information on ingredients

The product contains the following ingredients which are classified according to Regulation (EC) Nr. 1272/2008 or for which a community occupational exposure limit value exists:

Composition	CAS-No.	Conc. (%)	Classification acc. OSHA HazardCommunication	
			Hazard classes / hazardcategories	Hazardstatements
ALUNDUM	1344-28-1	23		
ZIRCONIUM OXIDE	1314-23-4	14		
CALCIUM CARBONATE,NATURAL	1317-65-3	17~20		
WOLLASTONITE(Ca(SiO3))	13983-17-0	0~3		

Composition	CAS-No.	Conc. (%)	Classification acc. OSHA HazardCommunication	
			Hazard classes / hazardcategories	Hazardstatements
Cryolite	15096-52-3	13	Acute Tox. 4 STOT wdh. 1	H332 H372
BORATE(1-),TETRAFLUORO-,POTASSIUM	14075-53-7	9		
Titanium Dioxide	13463-67-7	2		
PHENOL, POLYMER WITHFORMALDEHYDE	9003-35-4	28	Carc. 1B Acute Tox. 3 Acute Tox. 3 Acute Tox. 3 Skin Corr. 1B Skin Sens. 1	H350 H301 H311 H331 H314 H317
PE	-	20		
	-	1~2		

4. First aid measures

4.1 Description of first aid measures

Inhalation:

Remove to fresh air.
Apply artificial respiration as needed.
Obtain first aid or medical assistance.

Skin contact:

Do not absorbed through skin. (may cause abrasions)
Obtain first aid or medical assistance, if needed.

Eye contact:

Do not let the victim rub his eyes.
Gently rinse the affected eyes with clean water for at least 15 minutes.
Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

Ingestion:

Obtain first aid or medical assistance, if needed.

5. Firefighting measures

5.1 Extinguishing media

Extinguishing media: water, foam, sand, powder or CO₂ as appropriate for surrounding materials.

5.2 Special hazards arising from the substance or mixture

Toxic fumes may occur. Use respiratory protective equipment.

5.3 Advice for firefighters

Extinguishing materials should be selected according to the surrounding area.

6. Accidental release measures

No special measures required.

7. Handling and storage

Follow instructions of grinding machine manufacturers and the relevant national regulations. In addition, observe the safety recommendations of the manufacturer.

Store abrasives in dry, frost-free conditions avoiding wide variations in temperature (temperature at 0°C - 40°C). Ensure they are properly protected and supported to prevent damage und distortion. Coated abrasives should be stored at 30–60 % relative humidity.

8. Exposure controls/personal protection

8.1 Control parameters

Before grinding it is recommended to perform a risk assessment and to use personal protection equipment accordingly.

Occupational exposure limit values and / or biological limit values.

Keep exposure to the following components under surveillance.
 (Observe also the regional official regulations)

Substance	CAS-No.	Agency	Threshold limits
Zirconium Compounds	1314-23-4	ACGIH	TWA (as Zr): 5mg/m ³
			STEL (as Zr): 10mg/m ³
		OSHA	TWA (as Zr) : 5mg/cm ³
alpha- Alumina	1344-28-4	OSHA	TWA: 15mg/m ³ (total dust)
			TWA: 15mg/m ³ (respirable fraction)
		CMRG	TWA : 1fiber/cm ³
Cryolite	15096-52-3	ACGIH	TWA (as F): 2.5 mg/m ³
		OSHA	TWA: 2.5mg/m ³ (total dust)
			TWA (as F): 2.5 mg/m ³
Titanium Dioxide	13463-67-6	ACGIH	TWA: 10mg/m ³
		CMRG	TWA : 5 mg/m ³ (raspirable dust)
		OSHA	TWA : 5 mg/m ³ (Total dust)

Substance	CAS-No.	Agency	Threshold limits
Potassium Fluoroborates	14075-53-7	ACGIH	TWA (as F): 2.5 mg/m ³
		OSHA	TWA : 2.5 mg/m ³ (total dust)
			TWA (as F): 2.5 mg/m ³
Formaldehyde	14075-53-7	ACGIH	TWA: 0.1mg/m ³
			STEL : 0.3 mg/m ³
		OSHA	TWA : 0.75 mg/m ³
			STEL : 2 mg/m ³
		NIOSH	TWA : 0.016 mg/m ³

8.2 Exposure controls

8.2.1 Individual protection measures

8.2.1.1 Respiratory protection: Use respiratory protective equipment

(Type depends on specific application and material being ground)

8.2.1.2 Hand protection: Wear protective gloves

(Type depends on specific application and material being ground)

8.2.1.3 Eye protection: Wear protective goggles or face shield

(Type depends on specific application and material being ground)

8.2.1.4 Hearing protection: Use hearing protection

(Type depends on specific application and material being ground)

8.2.1.5 Body protection: Use protective clothing

(Type depends on specific application and material being ground)

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state, form:	Solid	Boiling point:	N/A
Color:	not applicable	Melting point:	N/A
Odor:	None	Solubility in water:	N/A
Vapor pressure:	N/A	Specific gravity:	N/A

9.2 Other information

None.

10. Stability and reactivity

10.1 Reactivity

Coated abrasives are stable when handled or stored correctly.

10.2 Chemical stability

No decomposition in normal use.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Coated Abrasives are stable when handled or stored correctly.

10.5 Incompatible materials

No dangerous reactions known.

10.6 Hazardous decomposition products

At temperatures exceeding 250°C hazardous or toxic decomposition products may be generated.

11. Toxicological information

11.1 Information on toxicological effects

Dust may cause respiratory irritation.

Rubbing product across the skin may cause mechanical irritation or abrasions.

Dust particles may cause abrasive injury to the eyes.

Acute Toxicity

Aluminium Oxide	Oral	> 5000 mg/kg (LD50, rat)
	Inhalation	> 7.6 mg/L/h (LC50, rat)
Zirconium Oxide	Oral	> 5000 mg/kg (LD50, rat)
	Inhalation	> 4.3 mg/L/h (LC50, rat)
Cryolite	Oral	> 10000 mg/kg (LD50, rat)
	Inhalation	> 200 mg/L (LC50, rat)
	Derma	> 2000 mg/kg (LD50, rabbit)
Titanium Dioxide	Dermal	> 10000 mg/kg (LD50, rabbit)
	Inhalation	> 6.82 mg/L/4h (LC50, rat)
	Ingestion	> 10000 mg/kg (LD50, rat)
Formaldehyde	Oral	> 5000 mg/kg (LD50, rat)
	Inhalation	> 0.578 mg/L/4h (LC50, rat)
	Derma	> 270 mg/kg (LD50, rabbit)
Potassium Fluoroborate	Oral	> 2000 mg/kg (LD50, rat)

12. Ecological information

12.1 Toxicity

No effects known.

12.2 Persistence and degradability

No biodegradable potentials known.

12.3 Bioaccumulative potential

No potentials known.

12.4 Mobility in soil

No potentials known.

12.5 Results of PBT and vPvB assessment

Not relevant.

12.6 Other adverse effects

No effects known.

13. Disposal considerations

13.1 Waste treatment methods

13.1.1 Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.

13.1.2 Packing

Follow national and regional regulations.

14. Transport information

Land transport (ADR/RID)

14.1 UN-Nummer:	No dangerous good in sense of this transport regulation.
14.2 UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3 Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4 Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1 UN-Nummer:	No dangerous good in sense of this transport regulation.
14.2 UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3 Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4 Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1 UN-Nummer:	No dangerous good in sense of this transport regulation.
14.2 UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3 Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4 Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1 UN-Nummer:	No dangerous good in sense of this transport regulation.
14.2 UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3 Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4 Packing group:	No dangerous good in sense of this transport regulation.

15. Regulatory information

The company is not able to check up the regulatory information in regard to be substances in your country or region, therefore, we request this matter would be filled by your responsibility.

16. Other information

Reference:

Chemical substances of unknown or variable composition complex reaction products and biological material.
Coated abrasives modern tool of industry.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.