

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code 1000

Product Name REACTIVE ALUMINA SPINEL

Contains Spinel, CAS 1302-67-6

Synonyms CTC55, E-SY 2000

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

Recommended Use Refractory

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Almatis GmbH Lyoner Str. 9 60528 Frankfurt Germany Phone: +49 69 9573410	Almatis GmbH Giulinistrasse 2 67065 Ludwigshafen Germany Phone: +49 621 57070
--	---

For further information, please contact

E-mail address info@almatis.com

1.4. Emergency telephone number

Emergency Telephone Number 3E Global Incident Response Hotline (Almatis access code: 334735)

GB: +44 20 35147487
UK: 0 800 680 0425
US: +01 760 476 3961
US: +01 760 476 3959

2. HAZARDS IDENTIFICATION

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No data available

Not applicable

2.2. Label Elements

Symbol(s)

Not applicable

Signal word

None

Hazard statements

None

2.3. Other information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances**

Chemical name	CAS No.	Weight-%	REACH Reg. No
Spinel (Mg(AlO ₂) ₂)	1302-67-6	36-99	01-2119457267-32-0000
Aluminum oxide	1344-28-1	0-64	01-2119529248-35-0024 01-2119529248-35-0125 01-2119529248-35-0086 01-2119529248-35-0238

4. FIRST AID MEASURES**4.1. Description of first aid measures****Eye Contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Skin Contact

Wash skin with soap and water.

Ingestion

Rinse mouth

Inhalation

Remove to fresh air

General AdviceIf symptoms persist, call a physician
Show this safety data sheet to the doctor in attendance.**4.2. Most important symptoms and effects, both acute and delayed**

No information available

4.3. Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically

5. FIRE-FIGHTING MEASURES**5.1. Extinguishing media****Suitable Extinguishing Media**

The product itself does not burn

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Extinguishing media which must not be used for safety reasons

No information available

5.2. Special hazards arising from the substance or mixture**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

None in particular.

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment
Avoid dust formation

6.2. Environmental precautions

No special environmental precautions required

6.3. Methods and material for containment and cleaning up

Recover product. Place into appropriate container for disposal.

Methods for Cleaning Up

Sweep up and shovel into suitable containers for disposal

6.4. Reference to other sections

See Section 12 for additional information.

7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Handling

Provide appropriate exhaust ventilation at places where dust is formed

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice

Exposure scenario

No information available

7.2. Conditions for safe storage, including any incompatibilities

Keep in a dry place

7.3. Specific end use(s)

No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical name	EU	United Kingdom	France	Spain	Germany OEL (TWA)
Spinel (Mg(AlO ₂) ₂) 1302-67-6	N/A		N/A	N/A	N/A
Aluminum oxide 1344-28-1			VME: 10 mg/m ³	VLA-ED: 10 mg/m ³	1.25 mg/m ³ 6.0 mg/m ³ (a)

(a) GOEL - Germany - TRGS 900 - Occupational Exposure Limits - TWAs, (a) exempt facilities listed in 2.4(8) and (9)

Component	Italy	Portugal	Netherlands	Finland	Denmark
Spinel (Mg(AlO ₂) ₂) 1302-67-6 (36-99)	N/A	N/A	N/A	N/A	N/A
Aluminum oxide 1344-28-1 (0-64)		TWA: 10 mg/m ³			TWA: 10 mg/m ³

Component	OSHA PEL	ACGIH TWA
Spinel (Mg(AlO ₂) ₂) 1302-67-6 (36-99)	N/A	1 mg/m ³ TWA (respirable fraction)
Aluminum oxide 1344-28-1 (0-64)	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	1 mg/m ³ TWA (respirable fraction)

Derived No Effect Level (DNEL) 3 mg/m³, respirable, 8 hour TWA

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Personal protective equipment

Eye Protection	Wear safety glasses with side shields (or goggles)
Skin Protection	No special protective equipment required.
Hand Protection	No special protective equipment required.
Respiratory Protection	In case of insufficient ventilation, wear suitable respiratory equipment When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
Environmental exposure controls	No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Powder
Color	White
Odor	None
pH	9.00
Flash point (°C) DEGREES	Not applicable
Autoignition temp (°F) DEGREES	Does not ignite
Boiling point/range (°C) DEGREES	Not determined
Melting Point/Range	
Melting point (°C) VALUE	1900 - 2135
Melting point (°C) DEGREES	°C
Solubility	Insoluble
Density	=3.2 g/cm ³
Bulk Density	Not determined
Explosives	None

10. STABILITY AND REACTIVITY

10.1. Reactivity

None under normal processing

10.2. Chemical Stability

Stable under normal conditions

10.3. Possibility of Hazardous Reactions

None under normal processing

10.4. Conditions to Avoid

No decomposition if stored and applied as directed

10.5. Incompatible materials

None under normal processing

10.6. Hazardous Decomposition Products

Not applicable

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Acute toxicity - Oral Conclusive but not sufficient for classification

Acute toxicity - Dermal	Conclusive but not sufficient for classification
Acute toxicity - Inhalation (Dusts/Mists)	Conclusive but not sufficient for classification
Chronic Toxicity	
Irritation	Conclusive but not sufficient for classification
Corrosivity	Conclusive but not sufficient for classification
Sensitization	Conclusive but not sufficient for classification
Mutagenic Effects	Conclusive but not sufficient for classification
Carcinogenic effects	Conclusive but not sufficient for classification
Reproductive Effects	Conclusive but not sufficient for classification
Developmental Effects	Conclusive but not sufficient for classification
Aspiration Hazard	Conclusive but not sufficient for classification

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

Not water endangering
Aquatic toxicity is unlikely due to low solubility

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential.

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused Products

Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal

14. TRANSPORT INFORMATION

Note: Not classified as dangerous in the meaning of transport regulations

IMDG/IMO Not regulated.

RID Not regulated.

ADR Not regulated

ICAO Not regulated

IATA Not regulated

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**International Inventories**

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Not listed
PICCS	Not listed
ENCS	Not listed
IECSC	Not listed
AICS	Complies
KECL	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out

16. OTHER INFORMATION**Key literature references and sources for data**

www.ChemADVISOR.com/

Prepared By

Edwin van Hagen
Almatis B.V.
Theemsweg 30
3197 KM Botlek Rt
The Netherlands
+31-181-270124
Edwin.vanhagen@almatis.com

Issuing Date

02-May-2011

Revision Date

26-Mar-2018

Revision Note

Reason for revision

Revision 11, March 2018
Updated emergency telephone numbers
Updated Prepared By

Updates

The most current version of this Safety Data Sheet is available at this URL:
<http://almatiswv.thewercs.com/private/search.aspx?language=EN>

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of Safety Data Sheet