

## SAFETY DATA SHEET

Issuing Date 04-May-2011 Revision Date 27-Feb-2015 Revision Number 11

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

1.1. Product identifier

Product Code 1036

Product Name DISPERSING ALUMINA M-ADS and M-ADW

Contains Aluminum oxide, CAS 1344-28-1

Synonyms M-ADS Series, M-ADW Series

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

**Recommended Use** 

Refractory, Construction material

#### Uses advised against

No information available

#### 1.3. Details of the supplier of the safety data sheet

Almatis GmbH
Lyoner Str. 9
60528 Frankfurt

Almatis GmbH
Giulinistrasse 2
67065 Ludwigshafen

Germany Germany

#### For further information, please contact

#### 1.4. Emergency telephone number

Almatis: +1 501-776-4677

CHEMTREC:

+1-703-527-3887 (INTERNATIONAL) +1-800-424-9300 (NORTH AMERICA)

## 2. HAZARDS IDENTIFICATION

## 2.1. - Classification of the substance or mixture

#### **REGULATION (EC) No 1272/2008**

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### **R-Phrases**

Not applicable

## **GHS Classification**

The product is not classified as hazardous according to GHS

## 2.2. Label Elements

## Symbol(s)

None

#### Signal Word

None

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#### **Hazard Statements**

None

#### **Precautionary Statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear eye protection/ face protection

P285 - In case of inadequate ventilation wear respiratory protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

## 2.3. Other information

No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Chemical Name	CAS No.	Weight-%	REACH Reg. No
Aluminum oxide	1344-28-1	87 - 97	01-2119529248-35-0024 01-2119529248-35-0125 01-2119529248-35-0086 01-2119529248-35-0238
Boric acid	10043-35-3	1-5	
Carboxylic acid salt	6858-44-2	0-5	
3-Carboxy-3-hydroxyglutarsäure; salt	13234-23-6	0-5	

## 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 Advice If 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

Mild eye irritant. Mild skin irritant

#### 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**

Shovel or sweep up

## 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

Protect from moisture.

## 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)
Aluminum oxide 1344-28-1			VME: 10 mg/m <sup>3</sup>	VLA-ED: 10 mg/m <sup>3</sup>	1.25 mg/m <sup>3</sup> 6.0 mg/m <sup>3</sup> (a)
Boric acid 10043-35-3					2.6 mg/m <sup>3</sup>

(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
Aluminum oxide		TWA: 10 mg/m <sup>3</sup>			TWA: 10 mg/m <sup>3</sup>
1344-28-1 (87 - 97)		l			

Component	OSHA PEL	ACGIH TWA	
Aluminum oxide	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup>	1 mg/m <sup>3</sup> TWA (respirable fraction)	
1344-28-1 ( 87 - 97 )	TWA (respirable fraction)		
Boric acid	= 15 mg/m <sup>3</sup> TWA total dust	= 2 mg/m³ TWA	
10043-35-3 ( 1-5 )	= 5 mg/m <sup>3</sup> TWA respirable fraction		
		= 6 mg/m³ STEL	

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

Predicted No Effect Concentration No information available

(PNEC)

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas

Personal protective equipment

**Eye Protection** Safety glasses with side-shields

**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 4 - 7

Flash point (°C) DEGREES Not applicable Autoignition temp (°F) DEGREES Does not ignite

Boiling point/range (°C) DEGREES Not determined

Melting Point/Range 2050 Melting point (°C) DEGREES °C

SolubilityPartly solubleDensity3.9 g/cm3Bulk Density900-1000 kg/m³

## 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

Carbon dioxide (CO2)

Carbon monoxide

Thermal decomposition can lead to release of irritating gases and vapors

## 11. TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

**Acute Toxicity** 

Acute oral toxicityConclusive but not sufficient for classificationAcute dermal toxicityConclusive but not sufficient for classificationAcute inhalation toxicityConclusive but not sufficient for classification

**Chronic Toxicity** 

Conclusive but not sufficient for classification Irritation Conclusive but not sufficient for classification Corrosivity Sensitization Conclusive but not sufficient for classification Conclusive but not sufficient for classification **Mutagenic Effects** 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**

Water hazard class 1 (German Regulation): slightly hazardous for water

## 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

None known

## 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.

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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

Complies **TSCA EINECS/ELINCS** Complies Complies DSL/NDSL **PICCS** Complies Complies **ENCS** Complies **IECSC** Complies **AICS 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/

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**Revision Summary** Revision 5, April 2008

Section 1, changed contact address

Section 16, added email address and revision history

Revision 6, February 2011

Section 3, revised ingredients listed

Revision 7, May 2011 Update to format Rev 8, August 2011

Sections 3 and 8, revised ingredients listed

Revison 9, February 2014 Section 8, revised ACGIH TWA Revision 10, August 2014 Section 8, revised GOEL Revision 11, February 2015

Section 2, Added GHS statement (not hazardous)

Updates The most current version of this Safety Data Sheet is available at this URL:

http://almatiswv.thewercs.com/private/search.aspx?language=EN

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **Disclaimer**

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**End of Safety Data Sheet**