

Safety Data Sheet



according to Regulation (EU) No. 1907/2006

INMATEC Technologies GmbH

INMAFEED K1008, K1010, K1013 Alumina Injection Moulding Feedstock

Print date: 24.07.2010

Product code:

Page 1 of 5

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Alumina Injection Moulding Feedstock

Use of the substance/preparation

Use for ceramic injection moulding

Company/undertaking identification

Company name: INMATEC Technologies GmbH
Street: Heerstrassenbenden 10
Place: D-53359 Rheinbach
Phone: +49-2226-9087-0
Responsible Department: INMATEC Technologies GmbH
Quality management, job safety
02226/908751
Phone:
Emergency telephone: +49-2226-9087-0 (8:00 -17:00)

2. Hazards identification

Classification

The preparation is not dangerous in the sense of Directive 1999/45/EC.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
	1344-28-1	Aluminiumoxid 96-99.9%	80 - 85 %	
	25322-68-3	Combination based on polyolefine waxes	15 - 20 %	
	12055-23-1	Inorganic flux additives 0,1 - 0,4%	1 - 5 %	

Further Information

The preparation is not dangerous in the sense of Directive 1999/45/EC.

4. First aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

After inhalation

Provide fresh air. In case of irritation of the respiratory tract seek medical advice. In case of allergic symptoms especially in the breathing area, seek medical advice immediately.

After contact with skin

In case of skin irritation consult a doctor. After contact with skin, wash immediately with water and soap.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

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Page 2 of 5

After ingestion

Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect). Do not induce vomiting.

5. Fire-fighting measures

Suitable extinguishing media

Extinguishing materials should be selected according to the surrounding area. Water fog. Carbon dioxide (CO₂). Extinguishing powder. Foam.

Extinguishing media which must not be used for safety reasons

High power water jet.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Can be released in case of fire: Carbon monoxide (CO). Carbon dioxide (CO₂).

Special protective equipment for fire-fighters

Wear a self-contained breathing apparatus and chemical resistant suit.

6. Accidental release measures

Personal precautions

Provide adequate ventilation.
Avoid generation of dust. Do not breathe dust.
Wear personal protection equipment. (Refer to chapter 8.)
Avoid generation of dust. Do not breathe dust.

Environmental precautions

Dumping into the environment must be prevented.

Methods for cleaning up/taking up

Collect in closed containers for disposal. Avoid generation of dust. Wash with generous amount of water.

7. Handling and storage

Handling

Advice on safe handling

Wear suitable protective clothing. (Refer to chapter 8.)

Advice on protection against fire and explosion

Please note: Usual measures for fire prevention.
Product is: Combustible.
Under certain conditions dust explosible; Fire-class B

Further information on handling

Conditions to avoid: Avoid generation of dust.

Storage

Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed. Do not store at temperatures over: 30 °C

Advice on storage compatibility

Do not store together with:
Sodium nitrate, oxygen difluoride, chlorine trifluoride, ethylene, fluorine; Vinyl acetate, hydrogen halides, chlorinated hydrocarbons

Further information on storage conditions

Protect from moisture.

Storageclass (VCI):

11

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Product code:

Page 3 of 5

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS-No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
1344-28-1	Aluminiumoxid 96-99.9%		3		TWA (8 h) STEL (15 min)	AGW AGW

Exposure controls

Occupational exposure controls

Avoid contact with skin, eye and clothing.

Protective and hygiene measures

Always close containers tightly after the removal of product.

Respiratory protection

Respiratory protection required in case of:
exceeding critical value

Suitable respiratory protective equipment:

Combination filter device (DIN EN 141). Filtertyp : B-P2/P3

Hand protection

Pull-over gloves of rubber. DIN EN 374

Suitable material:

CR (polychloroprenes, Chloroprene rubber). (0,5 mm)

NBR (Nitrile rubber). (0,35 mm)

FKM (fluororubber). (0,4 mm)

PVC (Polyvinyl chloride). (0,5 mm)

Butyl rubber. (0,5 mm)

Eye protection

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

9. Physical and chemical properties

General information

Form: granules (solid)
Colour: white to light greyish
Odour: faint

10. Stability and reactivity

Conditions to avoid

Keep away from heat. Decomposition takes place from temperatures above: 150 °C
Exothermic decomposition between 150-170 °C.

Materials to avoid

Sodium nitrate, oxygen difluoride, chlorine trifluoride, ethylene, fluorine; Vinyl acetate, hydrogen halides, chlorinated hydrocarbons

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Product code:

Page 4 of 5

Hazardous decomposition products

Can be released in case of fire: Carbon monoxide (CO). Carbon dioxide (CO₂).

11. Toxicological information

Acute toxicity

Acute toxicity, oral rat. LD50: >15000 mg/kg

Irritant effect on the eye: Not an irritant.

Irritant effect on the skin: Not an irritant.

12. Ecological information

Ecotoxicity

Acute fish toxicity: LC50 >10g/l

Bacterial toxicity: EC0 > 1.000 mg/l

Method: OECD 209

Persistence and degradability

Product is biodegradable with difficulty.

Method: Zahn – Wellens – Test.

Further information

Elimination occurs essentially by mechanical separation or ultrafiltration

13. Disposal considerations

Advice on disposal

Waste disposal according to official state regulations. Consult the local waste disposal expert about waste disposal.

Waste disposal number of waste from residues/unused products

060316 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of salts and their solutions and metallic oxides; metallic oxides other than those mentioned in 06 03 15

Contaminated packaging

Cleaned containers may be recycled.

14. Transport information

Land transport (ADR/RID)

UN number: Not restricted

Warning plate

Description of the goods

Not restricted

Inland waterways transport

UN number: Not restricted

Description of the goods

Not restricted

Marine transport

UN number: Not restricted

Description of the goods

Not restricted

Air transport

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Page 5 of 5

UN/ID number:

Not restricted

Description of the goods

Not restricted

15. Regulatory information

Labelling

S phrases

Do not breathe dust.

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

16. Other information

Further Information

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.

Changes

Rev: 1.10 Revision

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Revision no.: 1.10

GB – EN

Revision date: 25.04.2010

INMATEC Technologies GmbH

Heerstrassenbenden 10 • D-53359 Rheinbach
www.inmatec-gmbh.com • info@inmatec-gmbh.com
Geschäftsführer: Dr. Moritz von Witzleben
Amtsgericht Bonn HRB 12582
USt.-Identnr.: DE230418018 • St.Nr. 222/5708/1896



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Dresdner Bank AG

Kto: 2 135 942 00 • BLZ: 370 800 40
IBAN DE56 3708 0040 0213 5942 00
SWIFT/ BIC Code: DRES DE FF 380

Commerzbank

Kto: 324 999 200 • BLZ: 380 400 07
Kölner Bank
Kto.: 930 354 007 • BLZ: 371 600 87