



MAL Magyar Alumínium Termelő és Kereskedelmi Zrt.

Date of issue: 2011-01-01
Date of revision: 2012-01-01
Revision No: 0003_2012

Safety data sheet: Zeolon ('A' types of zeolite)
REACH-Registration No.: 01-2119429034-49-0028

*** Basically Zeolite, cuboidal, crystalline, synthetic, non-fibrous is a non-hazardous substance. An MSDS is not mandatory required. The data sheet is provided on voluntary basis according to REACH Regulation (EC) No. 1907/2006. ***

Safety data sheet

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

1.1. Product identifier

Product name: Zeolon ('A' types of zeolite)

Trade name : synthetic zeolite, zeolite, 4A zeolite

CAS name: Zeolites (synthetic)

CAS Number: 1318-02-1

EU name: Zeolite, cuboidal, crystalline, synthetic, non-fibrous

EU Number: 930-915-9

IUPAC name: Zeolite, cuboidal, crystalline, synthetic, non-fibrous

Company product codes: ZEOLON.....

Substance type: UVCB, inorganic

REACH-Registration No.: 01-2119429034-49-0028

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

Manufacturing and processing of zeolite systems. Mixing, using zeolites into final products as adsorbents, biocides, cosmetics, catalysts, construction materials, drying agent, polymerization, purification, agricultural applications, etc. Use for washing, cleaning and adsorbing products. Use for products in construction and building work.

Uses advised against: None of the known uses by the downstream users

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Name: MAL Magyar Alumínium Termelő és Kereskedelmi Zrt.

Head-office: H-8400 Ajka, Gyártelep hrsz. 598/15

Country: Hungary

Company e-mail: timfold@mal.hu

Company homepage: www.mal.hu

Company telephone: (+36) 88 522 400



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Company telefax: (+36) 88 311 634
Safety Data Sheet contact: sds@mal.hu

1.4. Emergency telephone number

National Emergency contact:

Name: Egészségügyi Toxikológiai Tájékoztató Szolgálat

Address: 1096 Budapest, Nagyvárad tér 2.

Country: Hungary

Phone: +36 1 476 6464; +36 80 201 199

Telefax: +36 1 476 1138

E-mail: ettsz@okbi.antsz.hu

Homepage: www.okbi.hu

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

not classified, no H-phrases

Classification according to Directive 67/548/EEC:

not classified, no R-phrases

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

none / no signal word

Labelling according to Directive 67/548/EEC:

none / no signal word

Precautionary statements (recommendation):

In case of longer period or high level airborne dust respiratory truck irritation should be happened.

P 261: Avoid breathing dust

P280: Wear eye protection

P285: In case of inadequate ventilation wear respiratory protection



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P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P302+352: IF ON SKIN: Wash with soap and water

2.3. Other hazards

none

3. Composition/information on ingredients

3.1. Substances

Product name: Zeolon ('A' types of zeolite)
CAS Number: 1318-02-1
EU Number: 930-915-9
Purity: > 99 % (w/w)

4. First aid measures

4.1. Description of first aid measures

Inhalation: Move to fresh air. Consult physician if necessary.
Skin contact: Mechanical (dry) removal, than rinsing with water.
Eye contact: Rinse with plenty of water. Consult physician if necessary.
Ingestion: Rinse mouth and give plenty of water to drink. Consult physician if necessary.
Advice to medical treatment: No special advice.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

None



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5. Firefighting measures

The substance is inflammable and non-explosive

5.1. Extinguishing media

Suitable extinguishing media: Use fire fighting media appropriate for surrounding materials
Unsuitable extinguishing media: None

5.2. Special hazards arising from the substance or mixture

None

5.3. Advice for firefighters

None

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. In case of exposure to high level airborne dust wear a personal respirator in compliance with the local bye-laws.
Recommended dust masks or respirators (P2; P3; FFP2 or FFP3)

6.2. Environmental precautions

Basically synthetic Zeolites (including Zeolite, cuboidal, crystalline, synthetic, non-fibrous as a subset) are listed as inert ingredients of minimal risk by US-EPA (2005) and may subsequently be used as additives to plant protection products for terrestrial environment without limit, and hence are considered as ingredients without significant adverse impact to environment.

6.3. Methods and material for containment and cleaning up

The material can be taken up mechanically and disposed of observing the national regulations.



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6.4. Reference to other sections

See: 2.2. Label elements; 7. Handling and storage; 8. Exposure controls/personal protection; 13. Disposal considerations

7. Handling and storage

General advice: Handle in accordance with good industrial hygiene and safety practice. Wear suitable personal working cloth and protective equipment.

7.1. Precautions for safe handling

Dust generation: Avoid dust formation. No special handling advice required

Eating, hygiene in work area: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Precautions against fire and explosion: The substance is inflammable and non-explosive

7.2. Conditions for safe storage, including any incompatibilities

Condition of storage rooms and tanks: No any special precautions required.

Incompatible substances or mixtures: None

Further information of storage: Dry storage.

Packaging compatibilities: None

7.3. Specific end use(s)

Manufacturing and processing of zeolite systems. Mixing, using zeolites into final products as adsorbents, biocides, cosmetics, catalysts, construction materials, drying agent, polymerization, purification, agricultural applications, etc. Use for washing, cleaning and adsorbing products. Use for products in construction and building work.

8. Exposure controls/personal protection

8.1. Control parameters

Components with specific control parameters as limit values: Occupational exposure limits (air): generally same as for nuisance dust



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Observe the local by-laws in terms of dust.

(Germany: inhalable dust 10 mg/m³, respirable dust 3 mg/m³;
Great Britain: : inhalable dust 10 mg/m³, respirable dust 4 mg/m³;
USA: OSHA - Respirable fraction: 5 mg/m³, Total dust: 15 mg/m³;
Hungary: Egyéb inert porok - totális (belélegezhető): 10 mg/m³; respirábilis: 6 mg/m³)

Exposure limits for industrial workers:

Observe the local by-laws in terms of dust.

(Germany: inhalable dust 10 mg/m³, respirable dust 3 mg/m³;
Great Britain: : inhalable dust 10 mg/m³, respirable dust 4 mg/m³;
USA: OSHA - Respirable fraction: 5 mg/m³, Total dust: 15 mg/m³;
Hungary: Egyéb inert porok - totális (belélegezhető): 10 mg/m³; respirábilis: 6 mg/m³)

Exposure limits for professional workers :

Observe the local by-laws in terms of dust.

(Germany: inhalable dust 10 mg/m³, respirable dust 3 mg/m³;
Great Britain: : inhalable dust 10 mg/m³, respirable dust 4 mg/m³;
USA: OSHA - Respirable fraction: 5 mg/m³, Total dust: 15 mg/m³;
Hungary: Egyéb inert porok - totális (belélegezhető): 10 mg/m³; respirábilis: 6 mg/m³)

Exposure limits for consumers:

A relevant consumer exposure to Zeolite, cuboidal, crystalline, synthetic, non-fibrous from the use of detergent formulations by the inhalation, oral or dermal routes of exposure is therefore not to be expected under normal conditions of use.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

The receptacles have to be tightly closed. Formation of dust has to be prevented. Any unavoidable deposit of dust must be regularly removed.

8.2.2. Individual protection measures, such as personal protective equipment

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed working cloth is recommended

(a) Eye / face protection: Safety glasses with side-shields



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(b) Skin protection: No special protective equipment required. Wearing of closed work clothing is recommended

(b.1) Hand protection: Protective gloves

(b.2) Other: -

(c) Respiratory protection: Respiratory protection: During production process dust is generated; and if ventilation is inadequate, wear dust masks or respirators (P2; P3; FFP2 or FFP3)

(d) Thermal hazards: -

8.2.3. Environmental exposure controls

No special measures required.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

- (a) Appearance: colourless, solid, crystalline
- (b) Odour: odorless
- (c) Odour threshold: -
- (d) pH: Not applicable
- (e) Melting point/freezing point: > 400 oC
- (f) Initial boiling point and boiling range: Not applicable
- (g) Flash point: Not applicable
- (h) Evaporation rate: Not applicable
- (i) Flammability (solid, gas): Non flammable solid
- (j) Upper/lower flammability or explosive limits: Not applicable
- (k) Vapour pressure: Not applicable
- (l) Vapour density: Not applicable
- (m) Relative density: 2.2 g/cm³
- (n) Solubility(ies): in water: approx. 1.4 mg/L
- (o) Partition coefficient n-octanol/water: Not applicable
- (p) Auto-ignition temperature: Not applicable
- (q) Decomposition temperature: -
- (r) Viscosity: Not applicable
- (s) Explosive properties: Not applicable
- (t) Oxidising properties: Not applicable



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9.2. Other information

Granulometry: appr. 1 - <50 micron

10. Stability and reactivity

10.1. Reactivity

The substance is not reactive

10.2. Chemical stability

The substance is stable under normal conditions

10.3. Possibility of hazardous reactions

No hazardous reactions known

10.4. Conditions to avoid

None

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

No hazardous decomposition products known

11. Toxicological information

11.1. Information on toxicological effects

It is recommended that Zeolite, cuboidal, crystalline, synthetic, non-fibrous is not to be classified for acute oral, dermal and inhalation toxicity.

11.1.1. Substances

(a) acute toxicity: No bioaccumulation potential
Acute Oral: LD50 (rat) > 2000 mg/kg bw



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- Acute Inhalation: LC50 (rat) (4 hs) : > 4575 mg/L air
Acute Dermal: LD50 (rabbit) > 2000 mg/kg bw
(b) skin corrosion/irritation: not skin irritant
(c) serious eye damage/irritation: not eye irritant
(d) respiratory or skin sensitisation: not a sensitizer
(e) germ cell mutagenicity: Genetic toxicity: negative
(f) carcinogenicity: no systemic carcinogenic effect from exposure to Zeolite, cuboidal, crystalline, synthetic, non-fibrous
(g) reproductive toxicity: Negative. There is no evidence of any CMR effects
(h) STOT-single exposure: NOAEL (chronic, rat) appr. 60 mg/kg bw/day
(i) STOT-repeated exposure: NOAEL (subcut, rat) >20 mg/m³
(j) aspiration hazard: -

12. Ecological information

12.1. Toxicity

Basically synthetic Zeolites (including Zeolite, cuboidal, crystalline, synthetic, non-fibrous as a subset) are listed as inert ingredients of minimal risk by US-EPA (2005) and may subsequently be used as additives to plant protection products for terrestrial environment without limit, and hence are considered as ingredients without significant adverse impact to environment.

LC50 for freshwater fish: > 680 mg/L
LC50 for marine fish: > 780 mg/L
NOEC for freshwater fish: > 86.7 mg/L

EC50 for freshwater invertebrates: > 100 mg/L
EC50 for marine invertebrates: > 780 mg/L
NOEC for freshwater invertebrates: 32 mg/L



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EC50(growth rate) for freshwater algae: > 100 mg/L
NOEC for freshwater algae: > 100 mg/L
NOEC on toxicity to sediment organisms: > 200 mg/L
NOEC on toxicity to terrestrial plants: 60000 mg/kg soil dry weight

12.2. Persistence and degradability

Not applicable

12.3. Bioaccumulative potential

Not applicable

12.4. Mobility in soil

Not applicable

12.5. Results of PBT and vPvB assessment

Zeolite, cuboidal, crystalline, synthetic, non-fibrous is no PBT candidate substance.

12.6. Other adverse effects

None

13. Disposal considerations

If it is possible reuse or recycle. The waste can be handled according to the local bye-laws

13.1. Waste treatment methods

Recycling of the used, fully emptied packaging according to the local bye-laws.

14. Transport information

14.1. UN number

UN numbers are four-digit numbers that identify hazardous substances



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UN number: Non hazardous material.

14.2. UN proper shipping name

Overland freight: Non hazardous material.

ADR/RID class: Non hazardous material.

Sea freight: Non hazardous material.

IMDG class: Non hazardous material.

Air freight: Non hazardous material.

ICAO/IATA class: Non hazardous material.

14.3. Transport hazard class(es)

Non hazardous material.

14.4. Packing group

Non hazardous material.

14.5. Environmental hazards

Non hazardous material.

14.6. Special precautions for user

Non hazardous material.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Non hazardous material.

15. Regulatory information

This product is not classified and labelled in accordance with EC directives. No hazard symbol is necessary.



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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Chemical Safety Report of Zeolite, cuboidal, crystalline, synthetic, non-fibrous

Hungarian decree: 25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai biztonságáról

Hungarian decree: 44/2000. (XII. 27.) EüM rendelet a veszélyes anyagokkal és a veszélyes készítményekkel kapcsolatos egyes eljárások, illetve tevékenységek részletes szabályairól

Hungarian regulation: 2000. évi XXV. Törvény a kémiai biztonságról

15.2. Chemical safety assessment

Chemical Safety Assessment (CSR) has been done.



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16. Other information

Exposure Scenario:

As a result of the hazard assessment and PBT/vPvB assessment it is found that SUBSTANCE Zeolite, cuboidal, crystalline, synthetic, non-fibrous (CAS Number: 1318-02-19 does not meet the criteria for classification as hazardous (according to Directives 67/548/EEC and 1272/2008/EC) nor is it considered to be a PBT/vPvB. Exposure assessment and the subsequent step of risk characterisation is not required.

Marking of revision:

1. - Since 28. 06. 2011. the version 0002_2011 is valid. Because of important changes in form of Safety data sheet.
2. - Since 01. 01. 2012. the version 0003_2012 is valid. Change in Head-office address of Manufacturer (chapter 1.3)

Abbreviations and acronyms:

PBT - Persistent, Bioaccumulative and Toxic chemicals
vPvB - very Persistent, very Bioaccumulative

LD - Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

LC - Lethal Concentration. The concentration of the chemical in air that kills 50% of the test animals in a given time (usually four hours) is the LC50 value.

UVCB substances - substances of unknown or variable composition, complex reaction products or biological materials

CMR effects - carcinogenicity, mutagenicity and toxicity for reproduction

CAS - Chemical Abstracts Service (division of the American Chemical Society)

OSHA - Occupational Safety and Health Administration (US)

ADR - Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)



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RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International Transport of Dangerous Goods by Rail)

IMDG: - International Maritime Code for Dangerous Goods

IATA - International Air Transport Association

IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO - International Civil Aviation Organization

ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

EINECS - European Inventory of Existing Commercial Chemical Substances

PNEC - Potential No Effect Concentration

DNEL - Derived No Effect Level

DOC - Dissolved Organic Compounds

Bwt / bw - bodyweight

List of relevant R, S, H and P phrases:

P 261: Avoid breathing dust

P280: Wear eye protection

P285: In case of inadequate ventilation wear respiratory protection

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P302+352: IF ON SKIN: Wash with soap and water

Remarks:

This Safety Data Sheet contains our currently known information. The Safety Data Sheet was prepared according to our best knowledge, but only for information. Therefore the given data do not serve any guaranty or legal obligation concerning to characteristics of product.

This Safety Data Sheet serves for help to the user in making his own decision about suitability of the product to his own usage goals.



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Because the handling, storing, using and annihilation are out of our competence, we preclude the responsibility concerning to the handling, storing, using and annihilation of the product.

If the product is used as a component of an other product this Safety Data Sheet can not be used any more.

Standard commercial types:

Zeolon P4A; Zeolon P4A-W

Any modification or change in the listing of commercial, standrad types does not mean the revision of Safety Data Sheet, since concerning the merrits remains unchanged.

Prepared by:

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H-8401 Ajka, Gyártelep, hrsz. 598 (Pf.: 124)

timfold@mal.hu

www.mal.hu

(+36) 88 522 400

(+36) 88 311 634