# MATERION

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of the substanceBaCO3-CaCO3-AL(OH)3Identification number056-003-00-2 (Index number)

Registration number Document number 2JU
Synonyms None.
Materion Code 2JU

**Issue date** 15-February-2019

Version number 01

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

**Supplier** 

**Company name** Materion Advanced Chemicals Inc.

**Address** 407 N. 13th Street

1316 W. St. Paul Avenue Milwaukee, WI 53233

**United States** 

**Division** Milwaukee **Telephone** 414.212.0257

**e-mail** advancedmaterials@materion.com

Contact person Noreen Atkinson

1.4. Emergency telephone

number

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

**Identified uses** The chemical(s) listed herein is not found on the Toxic Substance Control Act chemical substance

inventory. This chemical may not be used for commercial purposes. This chemical may be used

for research and development purposes only as defined at 40 CFR 710,2(y).

**Uses advised against** None known.

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### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

## Classification according to Regulation (EC) No 1272/2008 as amended

**Health hazards** 

Acute toxicity, oral Category 4 H302 - Harmful if swallowed.

H302 - Harmful if swallowed.

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Toxic if swallowed. Harmful if inhaled. Harmful if swallowed. Causes damage to organs. Exposure to powder or dusts may be irritating to eyes, nose and throat. Possible reproductive hazard. The material as sold in solid form is generally not considered hazardous. However, if the process involves grinding, melting, cutting or any other process that causes a release of dust or fumes, hazardous levels of airborne particulate could be generated.

#### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

BaCO3-CaCO3-AL(OH)3 **Contains:** 

**Hazard pictograms** 



Signal word Danger

**Hazard statements** 

Toxic if swallowed. H301 Harmful if swallowed. H302 Harmful if swallowed. H302 Harmful if inhaled. H332

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs ().

#### **Precautionary statements**

**Prevention** 

Obtain special instructions before use. P201

Do not handle until all safety precautions have been read and understood. P202

P260 Do not breathe dust. Avoid breathing dust/fume. P261 Wash thoroughly after handling. P264

Do not eat, drink or smoke when using this product. P270 Use only outdoors or in a well-ventilated area. P271

Response

IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P301 + P312

Rinse mouth. P330

P321 Specific treatment (see this label).

**Storage** 

P405 Store locked up.

**Disposal** 

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Supplemental label

information

For further information, please contact the Product Stewardship Department at +1.800.862.4118.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

### **General information**

Chemical name	% CAS-No. / EC No.	REACH Registration No. Index No.	Notes
BaCO3-CaCO3-AL(OH)3	100	- 056-003-00-2	
Classification:	Acute Tox. 3;H301, Acute Tox. 4;H302, A 1;H370	cute Tox. 4;H332, Repr. 2;H361, STOT SE	

#### List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

#: This substance has been assigned Union workplace exposure limit(s).

#: This substance has been assigned Community workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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## **SECTION 4: First aid measures**

**General information** 

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### 4.1. Description of first aid measures

**Inhalation** 

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact

Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

**Eye contact** 

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control centre immediately. Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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

Narcosis. Behavioural changes. Decrease in motor functions. Dusts may irritate the respiratory tract, skin and eyes.

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

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

# **SECTION 5: Firefighting measures**

**General fire hazards** 

No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

None known.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear suitable protective equipment.

Special firefighting

procedures

Use water spray to cool unopened containers.

**Specific methods** 

Use standard firefighting procedures and consider the hazards of other involved materials.

#### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation, Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

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## 6.3. Methods and material for containment and cleaning up

Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

## **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimise dust generation and accumulation. Do not taste or swallow, Avoid contact during pregnancy/while nursing. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational exposure limits** No exposure limits noted for ingredient(s).

**Biological limit values Recommended monitoring** 

procedures

Follow standard monitoring procedures.

No biological exposure limits noted for the ingredient(s).

**Derived no effect levels** 

(DNELs)

Not available.

**Predicted no effect** concentrations (PNECs) Not available.

#### 8.2. Exposure controls

**Appropriate engineering** 

controls

If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

## Individual protection measures, such as personal protective equipment

**General information** 

Personal protection equipment should be chosen according to the CEN standards and in discussion

with the supplier of the personal protective equipment.

Eye/face protection Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

Wear chemical protective equipment that is specifically recommended by the manufacturer. It may - Other

provide little or no thermal protection. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Respiratory protection** Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Keep away from food and drink. Always observe good personal hygiene measures, such as washing **Hygiene measures** 

after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

**Environmental exposure** 

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Appearance** Powder.

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SDS FU

Solid. **Physical state Form** Powder. Colour Not available. **Odour** Not available. **Odour threshold** Not available. pΗ Not available. Not available. Melting point/freezing point Initial boiling point and Not available.

boiling range

Not available. Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit -

upper (%)

Not available.

Not available. Vapour pressure Vapour density Not available. Not available. Relative density

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** Not available. **Explosive properties** Not explosive. Oxidising properties Not oxidising.

9.2. Other information No relevant additional information available.

# **SECTION 10: Stability and reactivity**

10.1. Reactivity Not available.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

10.4. Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

10.5. Incompatible materials None known.

No hazardous decomposition products are known. 10.6. Hazardous

decomposition products

# **SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

**Inhalation** Harmful if inhaled.

Skin contact Dust or powder may irritate the skin. Due to lack of data the classification is not possible.

**Eve contact** Dust may irritate the eyes. Harmful if swallowed. Ingestion

**Symptoms** Narcosis. Behavioural changes. Decrease in motor functions. Dusts may irritate the respiratory

tract, skin and eyes.

## 11.1. Information on toxicological effects

Toxic if swallowed. Harmful if inhaled. Harmful if swallowed. Harmful if swallowed. **Acute toxicity** 

Due to partial or complete lack of data the classification is not possible. Skin corrosion/irritation Serious eye damage/eye Due to partial or complete lack of data the classification is not possible.

irritation

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**Respiratory sensitisation** Due to partial or complete lack of data the classification is not possible. Skin sensitisation Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity

- single exposure

Causes damage to organs ().

Specific target organ toxicity

- repeated exposure

Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

Other information Not available.

# **SECTION 12: Ecological information**

12.1. Toxicity Due to partial or complete lack of data the classification for hazardous to the aquatic environment,

is not possible.

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative

potential

No data available.

n-octanol/water (log Kow)

**Partition coefficient** Not available.

**Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and

vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

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

disposal.

**EU** waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal

methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and

its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Special precautions Dispose in accordance with all applicable regulations.

## **SECTION 14: Transport information**

#### **ADR**

**14.1. UN number** UN1564

14.2. UN proper shipping Barium compounds, n.o.s.

14.3. Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Label(s) 6.1

Not available. Hazard No. (ADR)

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SDS FU

**Tunnel restriction** Not available.

code

14.4. Packing group III 14.5. Environmental No.

hazards

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

**RID** 

14.1. UN number UN1564

14.2. UN proper shipping Barium compounds, n.o.s.

name

14.3. Transport hazard class(es)

6.1(PGIII) Class

**Subsidiary risk** Label(s) 6.1 14.4. Packing group III14.5. Environmental No.

hazards

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

**ADN** 

**14.1. UN number** UN1564

14.2. UN proper shipping Barium compounds, n.o.s.

name

14.3. Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk 6.1 Label(s) 14.4. Packing group III14.5. Environmental No.

hazards

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

**IATA** 

**14.1. UN number** UN1564

14.2. UN proper shipping Barium compounds, n.o.s.

name

14.3. Transport hazard class(es)

6.1(PGIII)

**Subsidiary risk** Label(s) 6.1 14.4. Packing group III 14.5. Environmental No.

hazards

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

**IMDG** 

**14.1. UN number** UN1564

14.2. UN proper shipping Barium compounds, n.o.s.

14.3. Transport hazard class(es)

Class 6.1(PGIII)

**Subsidiary risk** Label(s) 6.1 14.4. Packing group 14.5. Environmental hazards Marine pollutant Nο

**EmS** Not available.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

Material name: BaCO3-CaCO3-AL(OH)3

#### ADN; ADR; IATA; IMDG; RID



## **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

#### **Restrictions on use**

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

# Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC)

No 1907/2006, as amended.

**National regulations** Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

References

No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

List of abbreviations Not available.

ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents

Material name: BaCO3-CaCO3-AL(OH)3 2JU Version #: 01 Issue date: 15-February-2019 Information on evaluation method leading to the classification of mixture **Revision information Training information** 

**Disclaimer** 

Not applicable.

None.

Follow training instructions when handling this material.

Materion Advanced Chemicals Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. This document has been prepared using data from sources considered to be technically reliable and the information is believed to be correct. Materion makes no warranties, expressed or implied, as to the accuracy of the information contained herein. Materion cannot anticipate all conditions under which this information and its products may be used and the actual conditions of use are beyond its control. The user is responsible to evaluate all available information when using this product for any particular use and to comply with all Federal, State, Provincial and Local laws, statutes and regulations.

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