

SAFETY DATA SHEET

1. Identification

Product identifier	Calcium carbonate (CaCO3)	
Other means of identification		
SDS number	1GI	
Materion Code	1GI	
CAS number	471-34-1	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	Materion Electronic Materials	
Address	6070 Parkland Blvd	
	Mayfield Heights, Ohio 44124	
Talankana	United States	
Telephone	1.216.383.4019 Materian DS Ometarian com	
E-mail Contact person	Materion-PS@materion.com Product Stewardship Director	
Emergency phone number	See Section 16	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	The substance does not meet the criteria for classification.	
Precautionary statement		
Prevention	Observe good industrial hygiene practices.	
Response	If exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of waste and residues in accordance with local authority requirements.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	100% of the substance consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the substance consists of component(s) of unknown long-term hazards to the aquatic environment. For further information, please contact the Product Stewardship Department at +1.800.862.4118.	

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Calcium carbonate		471-34-1	100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Get medical attention if irritation develops and persists.
Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Dusts may irritate the respiratory tract, skin and eyes.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. 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. For personal protection, see section 8 of the SDS.
Methods and materials 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. 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. For waste disposal, see section 13 of the SDS. The product is insoluble in water.
Environmental precautions	Do not contaminate water.
7. Handling and storage	
Precautions for safe handling	Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Avoid release to the environment. Practice good housekeeping.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

471-34-1) US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (R Material Type Calcium carbonate (CAS TWA 471-34-1) US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants Material Type Calcium carbonate (CAS PEL 471-34-1) PEL Ogical limit values No biological exposure limits noted for the ingredient oppriate engineering controls Good general ventilation should be used. Ventilation applicable, use process enclosures, local exhaust vermaintain airborne levels below recommended expose established, maintain concentrations of dust particular (OEL), suitable respiratory protection must be worn. operation which may generate dusts, use appropriate below the recommended exposure limits. Vidual protection measures, such as personal protective equipment Eye/face protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant gloves. Other Use a NIOSH/MSHA approved respirator if there is a exceeding the exposure limits. Respiratory protection Use a NIOSH/MSHA approved respirator if there is a exceeding the exposure limits.	/alue 5 mg/m3 10 mg/m3 /alue 5 mg/m3 10 mg/m3 (s). rates should be ntilation, or oth ure limits. If exp e level. If engin tes below the C	er engineering controls to posure limits have not been	
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	Wear appropriate thermal protective clothing, when necessary.		
such as washing after handling the material and before	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		
Physical and chemical properties			
Powder.			
Physical state Solid.			
Form Powder.			
Color Not available.			

Not available.

Not available. $\geq 8 - \leq 9$

Not available.

Odor

pН

Odor threshold

Melting point/freezing point

Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explos	sive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.0000005 kPa (77 °F (25 °C))
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	0.01 g/l
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	1517 °F (825 °C)
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Heat of combustion (NFPA 30B)	0 kJ/g
Molecular formula	CaCO3
Molecular weight	100.09 g/mol
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
Incompatible materials	Acids. Fluorine.
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological informatio	n
Information on likely routes of exp	osure
Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	Dust or powder may irritate the skin. Due to lack of data the classification is not possible.
Eye contact	Dust may irritate the eyes.
Ingestion	Based on available data, the classification criteria are not met.
Symptome related to the	Duate may irritate the reanizatory treat align and avec

Symptoms related to the Dusts may irritate the respiratory tract, skin and eyes.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Not known.

Product	Species	5	Test Results	
Calcium carbonate (CAS 471-34	4-1)			
<u>Acute</u>				
Oral	Dat			
LD50	Rat 6450 mg/kg			
* Estimates for product may	/ be based on	additional component data not she	own.	
Skin corrosion/irritation	Due to lack of data the classification is not possible.			
Serious eye damage/eye irritation	Direct con	tact with eyes may cause tempora	ary irritation.	
Respiratory or skin sensitization				
Respiratory sensitization	Due to lac	k of data the classification is not p	possible.	
Skin sensitization	Due to lac	k of data the classification is not p	possible.	
Germ cell mutagenicity	Due to lack of data the classification is not possible.			
Carcinogenicity	Not classifiable as to carcinogenicity to humans.			
IARC Monographs. Overall	Evaluation of	Carcinogenicity		
Not listed.				
OSHA Specifically Regulate	ed Substances	(29 CFR 1910.1001-1053)		
Not listed.				
US. National Toxicology Pro	ogram (NTP) F	Report on Carcinogens		
Not listed.				
Reproductive toxicity	Due to lack of data the classification is not possible.			
Specific target organ toxicity - single exposure	Due to lack of data the classification is not possible.			
Specific target organ toxicity - repeated exposure	Not classi	fied.		
Aspiration hazard	Due to lack of data the classification is not possible.			
Chronic effects	Prolonged inhalation may be harmful.			
Further information	This produ	uct has no known adverse effect o	on human health.	
12. Ecological information				
Ecotoxicity	Contains a	a substance which causes risk of	hazardous effects to the environment.	
Product		Species	Test Results	
Calcium carbonate (CAS 4	71-34-1)			
Aquatic	,			
Acute				
Fish	LC50	Western mosquitofish (Gam	busia affinis) > 56000 mg/l, 96 hours	
* Estimates for product may	/ be based on a	additional component data not she	own.	
Persistence and degradability				
Bioaccumulative potential	No data is available on the degradability of this product. No data available.			
Mobility in soil	No data available. No data available.			
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.			
13. Disposal consideration	าร			
Disposal instructions		d reclaim or dispose in sealed cor ial to drain into sewers/water supp	ntainers at licensed waste disposal site. Do not allow olies.	
Local disposal regulations	Dispose in accordance with all applicable regulations.			
Material name: Calcium carbonate	(CaCO3)		SDS (

Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	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	Empty containers should be taken to an approved waste handling site for recycling or disposal.
14. Transport information	
DOT Not regulated as dangerous <u>o</u>	goods.
IATA Not regulated as dangerous g	
IMDG	10003.
Not regulated as dangerous g	joods.
15. Regulatory information	
US federal regulations	All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.
Toxic Substances Control Act	t (TSCA)
	ort Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Substan Not listed.	ice List (40 CFR 302.4)
SARA 304 Emergency releas	e notification
	Substances (29 CFR 1910.1001-1053)
Not listed.	
Superfund Amendments and Real SARA 302 Extremely hazardo Not listed.	
SARA 311/312 Hazardous	Yes
chemical	
Classified hazard categories	Carcinogenicity Specific target organ toxicity (single or repeated exposure)
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations	
Clean Air Act (CAA) Section 7	112 Hazardous Air Pollutants (HAPs) List
Not regulated. Clean Air Act (CAA) Section 7	112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Total food additive Direct food additive
LIS state regulations	GRAS food additive
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

16. Other information, including date of preparation or last revision

Issue date	10-25-2013
Revision date	04-18-2024
Version #	06
Further information	Transportation Emergency Call Chemtrec at: US: 800.424.9300 International: 703.741.5970 Spain: 900.868.538 Switzerland: 0800.564.402 Chemtrec's toll free, mobile-enabled number in Germany – 0800 1817059 South Korea Toll-free Number – 080-880-0468
Disclaimer	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.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.