

# SAFETY DATA SHEET

# 1. Identification

1. Idonanoudon		
Product identifier	Calcium Sulfate (CaSO4) Powder	
Other means of identification		
SDS number	1IR	
Materion Code	1IR	
CAS number	7778-18-9	
Manufacturer/Importer/Supplier/Dis	stributor information	
Manufacturer		
Company name	Materion Advanced Chemicals Inc.	
Address	407 N 13th Street	
	1316 W. St. Paul Avenue	
	Milwaukee, WI 53233 United States	
Telephone	414.212.0257	
E-mail	advancedmaterials@materion.com	
Contact person	Noreen Atkinson	
Emergency phone number	Chemtrec 800.424.9300	
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	Wash hands after handling.	
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	None.	

# 3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Calcium Sulfate		7778-18-9	90 - 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.

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Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Get medical advice/attention if you feel unwell.
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 mease	ures
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. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Collect dust using a vacuum cleaner equipped with HEPA filter.
	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Avoid the generation of dusts during clean-up. Prevent entry into waterways, sewer, basements or confined areas. 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.
Environmental precautions	Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
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 original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
8. Exposure controls/persor	nal protection
Occupational exposure limits	-

#### Occupational exposure limits

Material	Туре	Value	Form
Calcium Sulfate (CAS 7778-18-9)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. ACGIH Threshold Limit V Material	Туре	Value	Form
Calcium Sulfate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to	Chemical Hazards		
Material	Туре	Value	Form
Calcium Sulfate (CAS 7778-18-9)	TWA	5 mg/m3	Respirable.
Pielogiaal limit values	No biological exposure limits noted f	10 mg/m3	Total
Biological limit values Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) 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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. 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, su Eye/face protection	<b>ch as personal protective equipment</b> Wear safety glasses with side shield	s (or goggles).	
Skin protection Hand protection	Wear appropriate chemical resistant supplier.	gloves. Suitable gloves can be	recommended by the glove
Other	Wear suitable protective clothing.		
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.	
General hygiene considerations	Always observe good personal hygie and before eating, drinking, and/or s	· · · · · · · · · · · · · · · · · · ·	after handling the material
9. Physical and chemical pro-	operties		
Appearance	• Powder.		
Physical state	Solid.		
Form	Powder Powder.		
Color	Not available.		
Odor	Not available.		
Odor threshold	Not available.		
pН	Not available.		
Melting point/freezing point	2642 °F (1450 °C)		
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 explose Flammability limit - lower (%)	s <b>ive limits</b> Not available.		
Flammability limit - upper (%)	Not available.		
Explosive limit - lower (%)	Not available.		

Explosive limit - upper (%)	Not available.
Vapor pressure	< 0.0000001 kPa at 25 °C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	3 g/l
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	2.96 g/cm3 estimated
Explosive properties	Not explosive.
Molecular formula	Ca.H2-O4-S
Molecular weight Oxidizing properties	136.14 g/mol Not oxidizing.
Specific gravity	2.96
	2.00
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability Possibility of hazardous	Material is stable under normal conditions. No dangerous reaction known under conditions of normal use.
reactions	
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Aluminum. Phosphorus.
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological information	n
Information on likely routes of expo	
Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	Due to lack of data the classification is not possible. Dust or powder may irritate the skin.
Eye contact	Dust may irritate the eyes.
Ingestion	Due to lack of data the classification is not possible.
Symptoms related to the physical, chemical and toxicological characteristics	Dusts may irritate the respiratory tract, skin and eyes.
Information on toxicological effects	3
Acute toxicity	Not available.
Skin corrosion/irritation	Due to lack of data the classification is not possible.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Due to lack of data the classification is not possible.
Skin sensitization	Due to lack of data the classification is not possible.
Germ cell mutagenicity	Due to lack of data the classification is not possible.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IAPC Managrapha, Overall E	voluction of Coroinogonicity	
IARC Monographs. Overall E Not listed.		
	Substances (29 CFR 1910.1001-1050)	
Not regulated.		
US. National Toxicology Prog	ram (NTP) Report on Carcinogens	
Not listed.		
Reproductive toxicity	Due to lack of data the classification is not possi	ible.
Specific target organ toxicity - single exposure	Due to lack of data the classification is not possi	ible.
Specific target organ toxicity - repeated exposure	Due to lack of data the classification is not possi	ible.
Aspiration hazard	Due to lack of data the classification is not possi	ible.
Chronic effects	Prolonged inhalation may be harmful.	
Further information	This product has no known adverse effect on hu	ıman health.
12. Ecological information		
Ecotoxicity	Contains a substance which causes risk of haza	ardous effects to the environment.
Product	Species	Test Results
Calcium Sulfate (CAS 7778-1	8-9)	
Aquatic		
Fish	LC50 Fathead minnow (Pimephales pr	romelas) >1970 mg/l, 96 hours
* Estimates for product may b	be based on additional component data not shown.	
Persistence and degradability	No data is available on the degradability of this	product.
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. oz potential, endocrine disruption, global warming p	
13. Disposal considerations	6	
Disposal instructions	Collect and reclaim or dispose in sealed contain this material to drain into sewers/water supplies.	ers at licensed waste disposal site. Do not allow
Local disposal regulations	Dispose in accordance with all applicable regula	itions.
Hazardous waste code	The waste code should be assigned in discussion disposal company.	on between the user, the producer and the waste
Waste from residues / unused products	Dispose of in accordance with local regulations. product residues. This material and its container Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product res emptied. Empty containers should be taken to a disposal.	sidue, follow label warnings even after container is n approved waste handling site for recycling or
14. Transport information		
DOT		

#### DOT

Not regulated as dangerous goods.

## IATA

Not regulated as dangerous goods.

# IMDG

Not regulated as dangerous goods.

# 15. Regulatory information

15. Regulatory information	
US federal regulations	CERCLA/SARA Hazardous Substances - Not applicable.
	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.
TSCA Section 12(b) Export N	lotification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Substar	nce List (40 CFR 302.4)
Not listed. SARA 304 Emergency releas	e notification
Not regulated. OSHA Specifically Regulated	Substances (29 CFR 1910.1001-1050)
Not regulated.	· · · ·
Superfund Amendments and Rea	uthorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazard Not listed.	ous substance
SARA 311/312 Hazardous chemical	Yes
SARA 313 (TRI reporting) Not regulated.	
Not regulated.	112 Hazardous Air Pollutants (HAPs) List 112(r) Accidental Release Prevention (40 CFR 68.130)
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug	Total food additive
Administration (FDA)	Direct food additive 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.
16. Other information, inclu-	ding date of preparation or last revision
Issue date	01-11-2018
Version #	01
Disclaimer	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

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