

**MATERION****1. Chemical and company identification**

**Name of chemical (Product name)** Strontium Nitride Sr<sub>2</sub>N

**Company name** Materion Advanced Chemicals Inc.

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**Division** Milwaukee

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**Reference number** S-MSDS0144

**2. Hazards identification****GHS classification**

**Physical hazards** Substances and mixtures which, in contact with water, emit flammable gases **Category 2**

**Health hazards** The product is not classified according to GHS.

**Environmental hazards** The product is not classified according to GHS.

**GHS label elements****Symbols**

**Signal words** Danger

**Hazard statement** In contact with water releases flammable gas.

**Precautionary statement**

**Prevention** Do not allow contact with water. Handle under inert gas. Protect from moisture. Wear protective gloves/eye protection/face protection.

**Response** Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. In case of fire: Use appropriate media to extinguish.

**Storage** Store in a dry place. Store in a closed container.

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

**Other hazards which do not result in classification** None known.

**Supplemental information** None.

**Main symptoms and emergency overview**

**Main symptoms** Direct contact with eyes may cause temporary irritation.

**Emergency overview** In contact with water releases flammable gas.

**3. Composition/information on ingredients**

**Substance or mixture** Substance

Components	CAS Number	Gazette notification		Concentration (%)
		ENCS no.	ISHL no.	
Strontium nitride	37194-83-5			100

**4. First aid measures**

**If inhaled** Move to fresh air.

<b>If on skin</b>	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Get medical attention if irritation develops and persists.
<b>If in eyes</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>If swallowed</b>	Get medical advice/attention if you feel unwell.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Protection of first-aid responders</b>	If you feel unwell, seek medical advice (show the label where possible).
<b>Notes to physician</b>	Provide general supportive measures and treat symptomatically. Treat symptomatically.

## 5. Fire-fighting measures

<b>Extinguishing media</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Extinguishing media to avoid</b>	Water. Do not use a solid water stream as it may scatter and spread fire.
<b>Specific hazards</b>	In contact with water releases flammable gas.
<b>Special fire fighting procedures</b>	Do not get water inside container.
<b>Protection of fire-fighters</b>	Wear suitable protective equipment.
<b>General fire hazards</b>	In contact with water releases flammable gas.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency measures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>Methods or materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. Do not get water on spilled substance or inside containers. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

<b>Handling</b>	
<b>Technical measures (e.g. Local and general ventilation)</b>	Handle under inert gas. Provide adequate ventilation.
<b>Safe handling advice</b>	Keep away from any possible contact with water, because of violent reaction and possible flash fire. Observe good industrial hygiene practices. Use personal protection recommended in Section 8 of the SDS.
<b>Contact avoidance measures</b>	Keep away from any possible contact with water, because of violent reaction and possible flash fire. Protect from moisture. Water. For further information, please refer to section 10 of the SDS.
<b>Hygiene measures</b>	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.
<b>Storage</b>	
<b>Safe storage conditions</b>	Never allow product to get in contact with water during storage. Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).
<b>Safe packaging materials</b>	Store in original tightly closed container.

## 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Engineering measures</b>	General ventilation normally adequate.
<b>Personal protective equipment</b>	
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Hand protection</b>	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
<b>Eye protection</b>	Wear eye/face protection. Wear safety glasses with side shields (or goggles).

**Skin and body protection**      Wear suitable protective clothing. Wear protective gloves.

## 9. Physical and chemical properties

### Appearance

**Physical state**                      Solid.  
**Form**                                      Solid.  
**Color**                                      Not available.

**Odor**                                      Not available.

**pH**                                         Not available.

**Melting point/Freezing point**      Not available.

**Boiling point, initial boiling point,  
and boiling range**                      Not available.

**Flash point**                              Not available.

**Combustion characteristics  
(solid, gas)**                              Not available.

### Upper/lower flammability or explosive limits

**Flammability limit - lower  
(%)**                                      Not available.

**Flammability limit - upper  
(%)**                                      Not available.

**Explosive limit - lower (%)**        Not available.

**Explosive limit - upper (%)**        Not available.

**Vapor pressure**                        Not available.

**Vapor density**                         Not available.

**Specific gravity**                        Not available.

**Solubility(ies)**                         Not available.

**Partition coefficient  
(n-octanol/water)**                      Not available.

**Auto-ignition temperature**        Not available.

**Decomposition temperature**        Not available.

**Viscosity (Coefficient of  
viscosity)**                              Not available.

### Other information

**Explosive properties**                Not explosive.

**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**                Exposure to moisture. Contact with water liberates flammable gas. Moisture. Contact with incompatible materials. Water, moisture.

**Incompatible materials**              Water, moisture.

**Hazardous decomposition  
products**                              No hazardous decomposition products are known.

## 11. Toxicological information

**Skin corrosion/irritation**            Due to lack of data the classification is not possible.

**Serious eye damage/eye  
irritation**                              Due to lack of data the classification is not possible.

### Respiratory or skin sensitization

**Respiratory sensitization**        Due to lack of data the classification is not possible.

<b>Skin sensitization</b>	Due to lack of data the classification is not possible.
<b>Germ cell mutagenicity</b>	Due to lack of data the classification is not possible.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Reproductive toxicity</b>	Due to lack of data the classification is not possible.
<b>Specific target organ toxicity - single exposure</b>	Due to lack of data the classification is not possible.
<b>Specific target organ toxicity - repeated exposure</b>	Due to lack of data the classification is not possible.
<b>Aspiration hazard</b>	Due to lack of data the classification is not possible.

## 12. Ecological information

<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulation</b>	No data available.
<b>Mobility in soil</b>	No data available.
<b>Hazardous to the ozone layer</b>	No data available.
<b>Other hazardous effects</b>	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 considerations

Dispose in accordance with all applicable regulations.

<b>Residual waste</b>	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).
<b>Contaminated packaging</b>	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.
<b>Local disposal regulations</b>	Contract with a disposal operator licensed by the Law on Disposal and Cleaning. 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. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste.

## 14. Transport information

### IATA

<b>UN number</b>	2813
<b>UN proper shipping name</b>	Water-reactive solid, n.o.s.
<b>Transport hazard class(es)</b>	
<b>Class</b>	4.3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	4W
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.

### IMDG

<b>UN number</b>	2813
<b>UN proper shipping name</b>	WATER-REACTIVE SOLID, N.O.S.
<b>Transport hazard class(es)</b>	
<b>Class</b>	4.3
<b>Subsidiary risk</b>	-

<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No.
<b>EmS</b>	F-G, S-N
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
<b>IATA; IMDG</b>	



**National regulations** Follow regulation in section 15 for domestic transportation.

## 15. Regulatory information

### Industrial Safety and Health Act

**Notifiable substances**

Not regulated.

**Labeling substances**

Not regulated.

### Poisonous and Deleterious Substances Control Act

**Specified poisonous substances**

Not regulated.

**Poisonous substances**

Not regulated.

**Deleterious substances**

Not regulated.

### Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

**Class I specified chemical substances**

Not regulated.

**Class II specified chemical substances**

Not regulated.

**Monitoring chemical substances**

Not regulated.

**Priority Assessment Chemical Substances (PACs)**

Not regulated.

**Reporting Exempted Substances**

Not regulated.

### Law concerning Pollutant Release and Transfer Register

**Specified class 1 substances (substance name, ordinance number and content)**

Not regulated.

**Class 1 substances (substance name, ordinance number and content)**

Not regulated.

**Class 2 substances (substance name, ordinance number and content)**

Not regulated.

**Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule** Flammable solid materials

**Air Law, Enforcement Rule** Flammable solid materials

### Explosives Control Act

Not regulated.

## 16. Other information

### Bibliography

ACGIH  
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices  
EPA: AQUIRE database  
HSDB® - Hazardous Substances Data Bank  
IARC Monographs. Overall Evaluation of Carcinogenicity  
National Toxicology Program (NTP) Report on Carcinogens  
NLM: Hazardous Substances Data Base  
US. IARC Monographs on Occupational Exposures to Chemical Agents  
Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits  
Japan Chemical Industry Association (JCIA) GHS Guideline, June 2012  
JIS Z 7252:2014 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"  
JIS Z 7253:2012 Hazard communication of chemicals based on GHS – Labelling and Safety Data Sheet (SDS)

### Further information

Emergency telephone numbers  
Austria - VergiftungsInformationsZentrale, +431.406.43.43  
Belgium - Centre Antipoisons - +070.245.245  
Bulgaria - Телефон за спешни случаи / факс, +359.2.9154.409  
Cyprus - +357.22405611  
Czech Republic - Toxikologické informační středisko, +420.224.919.293  
Denmark - Akuthjælp ved forgiftning, +82.12.12.12  
Estonia - Mürgistusteabekeskuse, 16662  
Finland - Myrkytystietokeskus, +(0)9.471.977  
France - numéro ORFILA, +33.(0)1.45.42.59.59  
Germany - GIZ-Nord Poisons Centre, +49.(0)551.383.1876  
Greece - +30.210.64.79.286  
Hungary - Az Egészségügyi Toxikológiai Tájékoztató Szolgálat, +36 1 476 6464  
Iceland - +354.591.2000  
Ireland - National Poisons Information Centre - +353.01.8092566  
Italy - Istituto Superiore di Sanità, 064990.2423  
Latvia - Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs, +371.67042473  
Liechtenstein - +423.236.61.95  
Lithuania - Neatidėliotina informacija apsinuodijus, +370 5 236 20 52  
Luxembourg - +352 42 59 91 600  
Malta - 2545 0000  
Netherlands - NVIC, 030-2748888  
Norway - Giftinformasjonen, 22.59.13.00  
Poland - Biuro ds. Substancji Chemicznych, +48 42 2538 424  
Portugal - 808.250.143  
Romania - Biroul RSI si Informare Toxicologica, 021.318.36.06  
Slovakia - NTIC, +421.2.5477.4166  
Slovenia - Kemična urad Republike Slovenije + 386.14.00.60.51  
Spain - Servicio de Información Toxicológica, + 34.91.562.04.20  
Sweden - 112

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### Revision information

Product and Company Identification: Product and Company Identification  
Transport Information: Proper Shipping Name/Packing Group