

SAFETY DATA SHEET

1. Identification

1. Idonanoutori	
Product identifier	Dysprosium Nitride
Other means of identification	
SDS number	1JC
Materion Code	1JC
CAS number	12019-88-4
Manufacturer/Importer/Supplier/Di	istributor 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	%
Dysprosium Nitride		12019-88-4	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	Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact	Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.	
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	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
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. 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. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Observe good industrial hygiene practices.	
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).	
8. Exposure controls/persor	al protection	
Occupational exposure limits	No exposure limits noted for ingredient(s).	

	Occupational exposure limits	No exposure limits noted for ingredient(s).
	Biological limit values	No biological exposure limits noted for the ingredient(s).
	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.
	Control parameters	Follow standard monitoring procedures.
Individual protection measures, such as personal protective equipment		
	Eye/face protection	Wear safety glasses with side shields (or goggles).
	Skin protection	
	Hand protection	
		Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
	Other	
	Other Respiratory protection	supplier.
		supplier. Wear suitable protective clothing.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

9. Physical and chemical properties

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Appearanc	e	
Physic	al state	Solid.
Form		Solid.
Color		Not available.
Odor		Not available.
Odor thres	nold	Not available.
рН		Not available.
Melting poi	nt/freezing point	Not available.
Initial boilin range	g point and boiling	Not available.
Flash point		Not available.
Evaporation	n rate	Not available.
Flammabili	ty (solid, gas)	Not available.
Upper/lowe	r flammability or explo	sive limits
Flamm (%)	ability limit - lower	Not available.
Flamm (%)	ability limit - upper	Not available.
Explos	ive limit - lower (%)	Not available.
Explos	ive limit - upper (%)	Not available.
Vapor pres	sure	< 0.0000001 kPa at 25 °C
Vapor dens	sity	Not available.
Relative de	nsity	Not available.
Solubility(ie	es)	
Solubi	lity (water)	Not available.
Partition co (n-octanol/		Not available.
Auto-ignitio	n temperature	Not available.
Decomposi	tion temperature	Not available.
Viscosity		Not available.
Other inform	mation	
Explos	ive properties	Not explosive.
Molecu	ular formula	DyN
Oxidizi	ing properties	Not oxidizing.
	lity and reactivity	
Reactivity		The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical s	-	Material is stable under normal conditions.
Possibility of reactions	of hazardous	No dangerous reaction known under conditions of normal use.
Conditions	to avoid	Contact with incompatible materials.
Incompatib	le materials	Strong oxidizing agents.
Hazardous products	decomposition	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

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	Inhalation	No adverse effects due to inhalation are expected.	
	Skin contact	No adverse effects due to skin contact are expected.	
	Eye contact	Direct contact with eyes may cause temporary irritation.	
	Ingestion	Expected to be a low ingestion hazard.	
	Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.	
	Information on toxicological effects		
	Acute toxicity	Not available.	
	Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
	Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
	Respiratory or skin sensitization		
	Respiratory sensitization	Not a respiratory sensitizer.	
	Skin sensitization	This product is not expected to cause skin sensitization.	
	Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
	Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall Evaluation of Carcinogenicity Not listed. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)			
	Not regulated. US. National Toxicology Program (NTP) Report on Carcinogens Not listed.		
	Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
	Specific target organ toxicity - single exposure	Not classified.	
	Specific target organ toxicity - repeated exposure	Not classified.	
	Aspiration hazard	Not an aspiration hazard.	
	12. Ecological information		
	Ecotoxicity	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.	
	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. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	
	13. Disposal considerations		
	Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.	
	Local disposal regulations	Dispose in accordance with all applicable regulations.	
	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	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.	

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

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 Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

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

Issue date	06-02-2015
Revision date	01-11-2018
Version #	02

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