

samaterials.com

SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

. PF			NTIFICATION						1.1.1		
.1P	roduct identifiers										
	Product name Brand		: Magnesium : saм	n nitride			. 1				
	CAS-No.		: 12057-71-5								
.2	Relevant identified u	ses of t	he substance or mi	ixture and	uses advi	sed agaiı	nst	'			
	Identified uses		: Laboratory chen	nicals, Syntl	hesis of su	ubstances	i				
.3	Details of the supplie	er of the	safety data sheet			111	: .		111		
. '	Company		Stanford Advar Materials 23661 Birtcher Lake Forest, C.	Dr.							
:	Telephone Fax	:	USA : +1 (949) 407-8 : +1 (949) 812-6				÷				,
.4	Emergency telephon	e numb	er								
	Emergency Phone #		: +1 (949) 407-8	904							
	GHS Classification Substances and mixt Skin irritation (Catego Eye irritation (Catego Specific target organ	tures, wl ory 2), H ory 2A),	hich in contact with I315 H319	water, emi	t flammat	ole gases		• •		:	
	For the full text of the	H-Stat	ements mentioned	in this Sect	tion, see S	Section 10	6.				
.2	GHS Label elements	, includi	ng precautionary s	tatements							
	Pictogram							н н н			
	Signal word		Danger	1							
	Hazard statement(s) H260		In contact with spontaneously.	water relea							
	H315 H319 H335	н 1 - 1	Causes skin irr Causes serious May cause res	itation. s eye irritati				н н - н	:**		
	Precautionary statem P223	nent(s)	Do not allow co								
	P231 + P232		Handle under i	nen gas. P	rotect fror	n moistur	e.				
	P231 + P232 P261 P264	:	Handle under in Avoid breathing Wash skin thor	g dust/ fum	e/.gas/ mi	ist/ vapou	e. irs/ spray	/.		1	
	P261	- - -	Avoid breathing	g dust/ fum	e/.gas/ mi	ist/ vapou	e. irs/ spray	/-		Page 1	of

P271	di se	Use only outdoors or in a well-ventilated area.
P280		Wear protective gloves/ eye protection/ face protection.
P302 + P352		IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	di la c	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338		IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313		If skin irritation occurs: Get medical advice/ attention.
P335 + P334		Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P337 + P313	. · · · · ·	If eye irritation persists: Get medical advice/ attention.
P362		Take off contaminated clothing and wash before reuse.
P370 + P378		In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P402 + P404		Store in a dry place. Store in a closed container.
P403 + P233		Store in a well-ventilated place. Keep container tightly closed.
P405		Store locked up.
P501		Dispose of contents/ container to an approved waste disposal plant.
· · · · · · · · · · · · · · · · · · ·		

2.3Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1Substances

Formula	 : Mg3N2
Molecular weight	: 100.93 g/mol
CAS-No.	: 12057-71-5
EC-No.	: 235-022-1

Hazardous components			and the second	
Component			Classification	Concentration
Trimagnesium dinitride				
	1	 	Water-react. 1; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3;	<= 100 %
For the full text of the U.Ste			H260, H315, H319, H335	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment

needed No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Dry powder

5.2 Special hazards arising from the substance or mixture Nitrogen oxides (NOx), Magnesium oxide

5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage.

Air sensitive. Moisture sensitive. Handle and store under inert gas. Keep in a dry place. Storage class (TRGS 510): Hazardous materials, which set free flammable gases upon contact with water

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL

PROTECTION 8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values. Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

mio	rmation on basic physica	and chemical prop						
a)	Appearance	Form: powder Colour: green	:		 i.		:	. * *
b)	Odour	No data available						
c)	Odour Threshold	No data available						
d)	рН	No data available			 	 		
e)	Melting point/freezing point	No data available			 			
f)	Initial boiling point and boiling range	No data available	ı					
g) '	Flash point	No data available	1	199	 :	 	e de la composición d	
h)	Evaporation rate	No data available						
i)	Flammability (solid, gas)	No data available						
j)	Upper/lower flammability or explosive limits	No data available				 		
k)	Vapour pressure	No data available	$\mathcal{A}^{(1)}$		 $\mathcal{A}^{(1)}$		11	
I)	Vapour density	No data available						
m).	Relative density	2.71 g/cm3 at 25 °	C (77 °F)		 1	 		
n)	Water solubility	No data available						
o)	Partition coefficient: n- octanol/water	No data available						
p)	Auto-ignition temperature	No data available						
q)	Decomposition temperature	No data available						
r)	Viscosity	No data available						
s) [,]	Explosive properties	No data available	1		 1	 		

, et	t) Oxidiz	zing properties	No data ava	ilable								
9.2	Other safe No data a	ety information vailable			:			:			e ^r	
10. S		AND REACTIVIT	Y									
10.1	Reactivity No data a			;••			: • •			: * *		
10.2	Chemical Stable une	stability der recommende	d storage cond	itions.								
10.3		/ of hazardous re lently with water.R		with wa	ater.	1 1					. '	
10.4	Exposure	to moisture		Ċ	Conditio	ns to avoid		1			ť	
10.5		ble materials ids, Strong bases	s, Water									
10.6	Other dec	s decomposition	icts - No data a	vailab	le							
	In the eve	nt of fire: see sec	tion 5		1						1	
11. T(OXICOLOG	GICAL INFORMA	TION									
11.1	Informatio	on on toxicologic	al effects									
	Acute tox No data a							,				
	Inhalation	: No data availab	le									
	Dermal: N	lo data available								1		
	No data a	vailable										
	Skin corr Irritating to	osion/irritation										
:	Serious e	e ye damage/eye o eyes.	irritation		: ¹			t.			÷.	
	Respirato No data a	ory or skin sensi vailable	tisation									
	Germ cel No data a	l mutagenicity vailable					1.1					
	Carcinog	enicity										
	IARC:	No component as probable, po	of this product	prese rmed h	nt at lev numan c	els greater th arcinogen by	han or e / IARC.	qual to 0	.1% is ider	ntified	·	
1	NTP:	No component a known or ant				els greater th	nan or e	qual to 0	.1% is ider	ntified as	i.	
	OSHA:	No component a carcinogen o					nan or e	qual to 0	.1% is ider	ntified as		
	Reproduc No data a	ctive toxicity vailable	· · ·									
. 1	No data a	vailable										
		arget organ toxi e respiratory irrita		xposu	re							
	Specific t No data a	arget organ toxi	icity - repeated	l expo	sure							
	no data a	vallaule									Page 5	of 7
											-	
							*					

Aspiration hazard No data available

Additional Information

RTECS: Not available

Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

	thoroughly investiga	tea.										
<u> </u>		A TION										
2. E	COLOGICAL INFORI	MATION										
2.1	Toxicity No data available											
2.2	Persistence and deg No data available	jradabilit	y ,									
12.3	Bioaccumulative po No data available	tential										
12.4	Mobility in soil No data available	н 1 - 1			:							
12.5	Results of PBT and PBT/vPvB assessme				al safety	assessme	nt not req	uired/not	conducted	b		
12.6	Other adverse effect	ts			. '			. '			. '	
	No data available											
13. D	ISPOSAL CONSIDER	ATIONS										
13.1 \	Naste treatment meth	ods										
	material is highly flat a licensed profession Contaminated pacl Dispose of as unuse	nal waste kaging	e disposal					licensed	disposar c	company. (Jontact	
14. T	RANSPORT INFORM	ATION										
	DOT (US) UN number: 2813 Proper shipping nam Reportable Quantity			solid, n.c		g group: I agnesium (dinitride)	н 1 — 1			н 1 - 1	
	Poison Inhalation Ha	zard: No										
	IMDG UN number: 2813 Proper shipping nam	Class e: WATE		TIVE SO		g group: I S. (Trimag	gnesium di		lo: F-G, S-	N , ,	e la	
	IATA UN number: 2813 Proper shipping nam IATA Passenger: Not		-reactive			g group: I agnesium (dinitride)			:		
15. R	EGULATORY INFOR	MATION										
. 9 1 IX	SARA 302 Compor	nents		of to the	roportion	roquiror	anto of SA			202		
	No chemicals in this	material		CLID THE	reporting	requireme	Ents OF SA		m, Section	1 302.		

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Reactivity Hazard, Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components		 			1.1.1	· · ·
		CAS-No.		Revisio	n Date	
Trimagnesium dinitride		12057-71-5				
New Jersey Right To Know Components	11	 	11			11
		CAS-No.		Revisio	n Date	
Trimagnesium dinitride		12057-71-5				
California Prop. 65 Components		 				

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit. H260 H315 H319 H335 Skin Irrit. STOT SE Water-react.	In cou Caus Caus May Skin Spec	rritation ntact with wa es skin irritat es serious ey cause respira irritation ific target org tances and n	ion. /e irritatio atory irrita jan toxicit	n. ition. y - singl	e exposure	 		 at L	
HMIS Rating Health hazard: Chronic Health Haz	ard:	2					1 1 - 1		
Flammability: Physical Hazard	aru.	4		÷		 ÷		 :	
NFPA Rating Health hazard: Fire Hazard: Reactivity Hazard: Special hazard.I:		2 4 2 W				 		 	

Further information

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