

samaterials.com

SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

1. PR	RODUCT AND COMPANY I	DENTIFICATION	· · · .		.1	· · · ·			•••
1.1Pr	oduct identifiers								
	Product name Brand	: Aluminum nitride : SAM		1	1	· · · .	1	1	Ч.,
	CAS-No.	: 24304-00-5							
1.2	Relevant identified uses of	of the substance or mixture ar	nd uses adv	ised agair	nst				
	Identified uses	: Laboratory chemicals, M	anufacture o	of substance	es				
1.3	Details of the supplier of	the safety data sheet							
	Company	Stanford Advanced : Materials 23661 Birtcher Dr.							
		Lake Forest, CA 92630 USA)						
	Telephone Fax	: +1 (949) 407-8904 : +1 (949) 812-6690							
1.4	Emergency telephone nui	mber							
1	Emergency Phone #	: +1 (949) 407-8904		111					
2. HA	ZARDS IDENTIFICATION								
2.1	Classification of the subs	tance or mixture		1	· .		÷.,		· · .
	GHS Classification in ac	cordance with 29 CFR 1910	(OSHA HC	S)					
	Skin corrosion (Category Serious eye damage (Cat	1B), H314			em, H33	35	· · ·		.**
	For the full text of the H-S	statements mentioned in this S	ection, see	Section 16	δ.				
2.2	GHS Label elements, incl	uding precautionary statemer	nts	111	. :	· · .	: • •		· · .
	Pictogram								
	Signal word	Danger	11. 1	1	1	19. 1	1	1	۰.
	Hazard statement(s) H314 H335	Causes severe skin bu May cause respiratory		damage.				н н п	.**
	Precautionary statement(s	s)							
	P260 P264 P271	Do not breathe dust or Wash skin thoroughly a Use only outdoors or in	after handlin	g. ilated area	a.	11. 1	111	.1	· · .
	P280	Wear protective gloves	/ protective	clothing/ e	eye prot	ection/ face			
1	P301 + P330 + P331 P303 + P361 + P353	protection. IF SWALLOWED: rinse IF ON SKIN (or hair): R	lemove/ Tak	ke off imm			inated		· · ·
н 1 - 1	P304 + P340	clothing. Rinse skin with IF INHALED: Remove			keep at	rest in a po	osition		
								Dogo 1	of 7

	comfortable for breathing.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove	
	contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER or doctor/ physician.	
P321	Specific treatment (see supplemental first aid instructions on this label).	
P363	Wash contaminated clothing before reuse.	
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

				1.1					
Formula	: AIN			1					
Molecular Weight	: 40.99 g/mol								
CAS-No.	: 24304-00-5								
EC-No.	: 246-140-8								
Hazardous components	111 (111) 111	1	· · · .	: * *	1.1	11.	111		
Component			Classifica	ition		Conc	centration		
Component Aluminium nitride			Classifica	tion		Cond	centration		
· · · · ·			Classifica Skin Corr	1	Dam. 1;		centration	· .	
· · · · ·		1		. 1B; Eye			centration	- ':	

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

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

If inhaled

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

In case of skin contact

Take off contaminated clothing and shoes immediately. 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.Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. 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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture nitrogen oxides (NOx), Aluminum oxide

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information no data available

6. AC	CIDEN	NTAL RELEASE MEASURES	1 1							1	
6.1	Perso Use j	onal precautions, protective equip personal protective equipment. Av uate ventilation. Evacuate person	void dust fo	ormation.	Avoid brea	athing va) }	
6.2	Envir	onmental precautions ot let product enter drains.		,			,	,		,	
6.3	Pick	ods and materials for containmen up and arrange disposal without c sposal.			p up and sl	novel. Ke	ep in su	itable, clos	sed contai	ners	· · · .
6.4	Refer	rence to other sections lisposal see section 13.									
7. HA	NDLIN	IG AND STORAGE		:						1	
7.1	Avoio Provi	autions for safe handling d contact with skin and eyes. Avoin ide appropriate exhaust ventilation precautions see section 2.2.									
7.2	Cond	ditions for safe storage, including container tightly closed in a dry									
	Mois	ture sensitive. Handle and store u	nder inert	gas. Kee	p in a dry p	lace.					
7.3	Apar	ific end use(s) t from the uses mentioned in section	ion 1.2 no	other spe	ecific uses a	are stipul	ated	· · .	;**	.:	· · ·
		RE CONTROLS/PERSONAL									
PRO		ON 8.1 Control parameters	1.	1	11. 1	1.		11.		1	· · · .
		ponents with workplace contro ains no substances with occupation			values.						
8.2	Ехро	sure controls									
	Hand	copriate engineering controls lle in accordance with good indus orkday.	trial hygien	ie and sa	afety practic	e. Wash	hands k	efore brea	aks and at	the end	
	Pers	onal protective equipment									
1	··.	Eye/face protection Face shield and safety glasses L government standards such as N				on tested	d and ap	proved un	der approj	oriate	۰.
		Skin protection Handle with gloves. Gloves mus touching glove's outer surface) to after use in accordance with app	o avoid ski	n contac	t with this p	roduct. D	Dispose	of contami	nated glov		
	۰.	Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 m Brack through time: 480 min	: m	.1	· · ·	111	.1	· · .	:**	1	· · .
`: 	··.	Break through time: 480 min Material tested:Dermatril® (KCL	740 / Aldri	ich Z677	272, Size N	1)	1	· · .	1	1	···.
		Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 m Break through time: 480 min	nm	:						:	

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, 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

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on basic physical and chemical properties a) Appearance Form: powder Odour b) no data available Odour Threshold no data available c) pН d) no data available e) Melting point/freezing Melting point/range: > 2,200 °C (> 3,992 °F) - lit. point Initial boiling point and no data available f) boiling range g) Flash point not applicable h) Evapouration rate no data available i) Flammability (solid, gas) no data available Upper/lower no data available i) flammability or explosive limits k) Vapour pressure no data available 1) Vapour density no data available m) Relative density 3.26 g/cm3 at 25 °C (77 °F) n) Water solubility no data available o) Partition coefficient: nno data available octanol/water Auto-ignition no data available p) temperature no data available q) Decomposition temperature **r**). Viscosity no data available Explosive properties no data available s) t) Oxidizing properties no data available

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						· · ·						· · .
9.2	Other safe no data av	ety information vailable	··.	4,	1	··.	÷.,	1	· · .	4	1	· · .
10. S			Y ,									
10.1	Reactivity no data av											
10.2	Chemical Stable un	stability der recommende	d storage co	onditions.	1				· · .			··.
10.3	Possibility	y of hazardous re vailable	actions		4							
10.4	Condition											
10.5	•	ble materials idizing agents, ac	ids, Bases						111			. * *
10.6	Other deco	s decomposition omposition produc ent of fire: see sec	ts - no data	available	j.	··.			11. 11.		.:	··.
11. T	OXICOLOG	BICAL INFORMA	TION	1	· · ·					:		
11.1	Informatio	on on toxicologic	al effects									
	Acute to no data av											
	Inhalation	: no data availabl	е									
		o data available										
	no data a					11.						· · · .
	no data av	1		÷.			÷.,			÷.,		· · .
	no data av											
	Respirato no data av	ory or skin sensi vailable	tisation						. **			
	Germ cel no data av	I mutagenicity vailable										
	Carcinog	enicity	· · ·									
1	IARC:	No component as probable, po						qual to 0	.1% is ide	ntified		· · .
	ACGIH:	No component a carcinogen o					than or eo	qual to 0	.1% is ide	ntified as		
	NTP:	No component a known or ant				els greater	than or eo	qual to 0	.1% is ide	ntified as		
.:	OSHA:	No component a:carcinogen o					than or e	qual to 0	.1% is ide	ntified as	.:	
	Reproduce no data av	ctive toxicity vailable										
1	no data a	vailable	· · · .	1	1	· · .			11. 1			· · · .
	Specific to no data av	t arget organ toxi vailable	city - singl	e exposu	re							
		1	1									

	Specific target organ toxicit no data available	ty - repeated	expos	sure	· · .			11			•••
	Aspiration hazard no data available										. • •
	Additional Information RTECS: Not available										
.:	To the best of our knowledge investigated., Cough, Shortne						es have	not been the	broughly	.:	۰.
12. E	COLOGICAL INFORMATION		1	1	· · .	i,		· · · .			•••
12.1	Toxicity no data available										
12.2	Persistence and degradability no data available	/				i.					
12.3	Bioaccumulative potential no data available	· · .		.:	н. 1			м.		.:	
12.4	Mobility in soil no data available										
12.5	Results of PBT and vPvB ass PBT/vPvB assessment not av		emical	safety as	sessment n	ot require	ed/not co	onducted			· · .
12.6	Other adverse effects										
	no data available										
13. D	SPOSAL CONSIDERATIONS										
13.1 V	Vaste treatment methods	11. 1		.1	11.			11.			۰.
`:	Product Offer surplus and non-recycla disposal service to dispose of chemical incinerator equipped	this material	. Disso	lve or mix	the materia						۰.
	Contaminated packaging Dispose of as unused produc	, '' t.		н н н	111 - E					н 1 - 1	. ' '
14. TI	RANSPORT INFORMATION										
.1	DOT (US) UN number: 3131 Class Proper shipping name: Water-	4.3 (8)		Packing g	group: III		.:)	···.	: • •	1	۰۰.
	Reportable Quantity (RQ): Marine pollutant: No Poison Inhalation Hazard: No	···,							1,		•••.
	IMDG				. 11						. * *
	UN number: 3131 Class Proper shipping name: WATE Marine pollutant: No	: 4.3 (8) R-REACTIVE	SOLI	Packing (D, CORR)	proup: III OSIVE, N.C	E S. (Alur).	EMS-No: ninium ni	F-G, S-L itride)			
	IATA				· · .	: • •	.1	11	111	1	۰.
· :	UN number: 3131 Class: Proper shipping name: Water-					minitride) • _:				•••.

15. REGULATORY INFORMATION

SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: 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 Righ	it To Kn	low Comp	onents						
				CAS-No.	Revision Date				
Aluminium nitride	1			1	· · · .	24304-00-5	1997 - S. 1997 -	1	
New Jersey Right T	o Know	Compone	nts						
						CAS-No.	Revision Date		
Aluminium nitride						24304-00-5			

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.

1

W

Eye Dam. H314 H318 H335 Skin Corr. STOT SE	Serious eye dam Causes severe sl Causes serious e May cause respir Skin corrosion Specific target org	kin burns a eye damag atory irrita	and eye je. ation.	damage.	· : 				
HMIS Rating Health hazard: Chronic Health Haz Flammability: Physical Hazard	3 ard: 3 1	÷.	: :	··.	÷.	•••	:.	: :	··.
NFPA Rating Health hazard: Fire Hazard:	3 0			.**	1	. * *			

Further information

Reactivity Hazard:

Special hazard.I:

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