

SAFETY DATA SHEET

								111	Date	Accesse	ed: 25/08	8/2023
÷.,	н 10-11			1 1 1	· · ·	1		1 - 1 1	Dat	e Revise	ed: 23/01	/2023
1	i.	1	1	i'	1	1.1	:	1	14	1	1.0	14
	CTION											
	uct Name											
	#: 13776-			, ,					1			1
Relev	vant iden	tified us	ses of t	he subst	ance: S	cientif	fic resea	rch and	develo	opment	·	·
Supp	lier detai	ls:										
	ord Advar il: sales@	1				'				, , , ,		
	949) 407-								1	н 1 1.		1
Addre	ess: 2366			_ake Fore				·			·	
SEC	CTION	2. H	AZAI		DENT	IFIC	ATIO	N			1 1 1 1	
Class	sification o	f the sul	bstance	e or mixtu	re in ac	cordan	ce with 2	9 CFR 1	910 (O	SHA HC	S)	1
GHS(Skin I	07 Irrit. 2 H31			irritation	÷.,	14. 14.	:	1		ľ	·	
		15 Caus	C3 31(11)	innation.								
	rrit. 2A H3				rritation	-						
Eye lı	rrit. 2А НЗ Г SE 3 Н3	19 Cau	ses ser	ious eye i					'		;	
Eye lı STO1		19 Cau 35 May	ses ser cause	ious eye i respirator	y irritatio	on.						
Eye lı STO٦ Haza	Г SE 3 H3	19 Cau 35 May herwise	ses ser cause classifi	ious eye i respirator ed	y irritatio	on.		· · · ·		н н н н	• •	
Eye li STOT Haza No da	Г SE 3 H3 rds not ot	19 Caus 35 May herwise ble	ses ser cause classifi	ious eye i respirator ed	y irritatio	on.		· · · ·		н н н н	• •	

Hazard pictograms

· ·											
GHS07										1	:
Signal word: Warn	ing										
Hazard statements	3		·			<u>'</u>	1.		1	1	:
H315 Causes skin	irritation.										
H319 Causes serie	ous eye irri	tation.									. '
H335 May cause r	espiratory i	rritation.Pr	ecautio	nary st	atements					1	
P261 Avoid breath	ing dust/fu	me/gas/mis	st/vapo	rs/spra	у.	·	· .				
P280 Wear protect	tive gloves/	protective	clothing	g/eye p	rotection/fa	ace pro					
P305+P351+P338	IF IN EYE	S: Rinse ca	autious	ly with	water for s	everal	minute	s. Remov	e conta	ct	
lenses, if present a	and easy to	do. Contir	nue rins	ing.	,						
P304+P340 IF INH	IALED: Re	move pers	on to fre	esh air	and keep	comfor	table fo	or breathin	ıg.	1	÷
P405 Store locked	up.		·	· .		·	1.		1		:
P501 Dispose of c	ontents/cor	ntainer in a	ccorda	nce wit	h local/reg	ional/n	ational/	internatio	nal		
regulations.			1.1.1						111		
WHMIS classificati	ion										
D2B - Toxic materi	ial causing	other toxic	effects	і. Э		1					
Classification syste	em		1 			1. 			1.1	1. 1.	:
HMIS ratings (scal	e 0-4)										
(Hazardous Materi	als Identifie	cation Syst	em)						111		. '
HEALTH				:			1			1	
FIRE											
REACTIVITY			·	1.		'			1		:
1											
D											. '
1:, ;,			1 1	1	н н н	· · ·					
Health (acute effec	cts) = 1	. '	·	· .	. '	·	· .		·	· .	
Flammability = 0		;						i			:
Physical Hazard =	1			. '					: • •		
Other hazards											
Results of PBT and	d vPvB ass	essment	1 I 1	1	1 1 1					1	

PBT: N/A		1 - 1 1	1		1		1	
vPvB: N/A		·						

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances CAS No. / Substance Name: 32823-06-6 / 13776-88-0 Aluminum metaphosphate

		. * *						
SECTION 4. FIRST AID	MEAS	URE	S		1	н 1 1	· · ·	1,
Description of first aid measures	1			1		e l'	5	
If inhaled:								
Supply patient with fresh air. If not bre	eathing, p	rovide a	artificial res	spiratio	n. Keel	o patient	warm.	
Seek immediate medical advice. In case of skin contact:		1			1,			4,
Immediately wash with soap and wate	er; rinse th	norougl	nly.	1 1		e ⁿ	5	$\mathcal{D}_{\mathcal{A}}$
Seek immediate medical advice.								
In case of eye contact:				: * *		11	111	
Rinse opened eye for several minute	s under ru	inning v	water. Con	sult a p	hysicia	an.		
If swallowed:								
Seek medical treatment.	1. A.	с. С. р.		1 	1		1	14
Information for doctor								
Most important symptoms and effects	s, both acı	ute and	delayed				111	
No data available					1		•	1
Indication of any immediate medical a	attention a	ind spe	cial treatm	ient ne	ededNo	o data av	ailable	14. 14.

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Phosphorus oxides Aluminum oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective	e equipme	nt and								
Use personal protective equipm	ent. Keep	unpro		persons a		· .	1 I		1.	
Ensure adequate ventilation		'			1	1. 1.	:	1		
Environmental precautions:										
Do not allow product to enter dra	ains, sewa	age sys	stems,	or other w	ater co	urses.		:**		,
Methods and materials for conta		nd clea				1				
Ensure adequate ventilation.										
Prevention of secondary hazard	s:	·	1. 1.	1	1. 			1	14. 1	
No special measures required.										
Reference to other sections					1.1.1					,
See Section 7 for information or	i safe han	dling								
See Section 8 for information or	n personal	protec	tion eq	uipment.						
See Section 13 for disposal info	rmation.	1 			'		:	1 		

SECTION 7. HANDLING AND STORAGE

				1	. '						. '	
Handling		1		1 I			1 I 1					
Precautions for s	afe har	ndling										
Keep container ti	ghtly s	ealed.	:				1			1		:
Store in cool, dry	place	in tightl	y closed o	contain	ers.							
Ensure good ven	tilation	at the	workplace	; · · ·								. * *
Information abou	t prote	ction ag	jainst exp	losions	and fir	es:						
No data available Conditions for sa	1.1	age, inc	luding an	y incon	npatibil	ities	·	1. 1.	:	1. 	· .	:
Requirements to			rerooms a	and rec	eptacle	es:						
No special requir	ements	6.										
Information abou	t storaç	ge in or	ne commo	n stora	ge faci	lity:					1	
Store away from	oxidiziı	ng agei	nts.	·	1.		1	1. 1.		1		:
Further information	on abo	ut stora	ige condit	ions:								
Keep container ti	ghtly s	ealed.		1 1 1 1			: • •					
Store in cool, dry	condit	ions in	well-seale	ed cont	ainers.	Specific e	nd use(s)				
No data available	;											
	1 1_1			1								

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average

face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace:

None.

Additional information: No data

Exposure controls

Personal protective equipment

Follow typical protective and hygienic practices for handling chemicals.

							111				. '	
Keep away from	foodstu	ıffs, be	verages	and fee	d.							
Remove all soile	d and c	ontami	nated clo	othing ir	nmedia	itely.						
Wash hands bef	ore brea	aks and	d at the e	nd of w	ork.	: ¹	1	1	t i	1.1		1
Avoid contact wi	th the e	yes an	d skin.									
Maintain an ergo	onomica	lly app	ropriate v	working	enviro	nment.						
Breathing equipr	nent:											
Use suitable res Protection of har	· · ·	vhen h	igh conce	entratio	ns are	present.	1	14. 14.	e ⁿ	5	1. 1.	1
Impervious glove Inspect gloves p		se.		1.1			;		.**	111	P	
Suitability of glov	/es shou	uld be	determin	ed both	by ma	terial and	l quality,	the lat	ter of wh	ich may	vary	
by manufacturer.		1.		·		:ľ	1		:	1	14. 1	1
Penetration time	ofglove	e mate	rial (in m	inutes):	No dat	ta availat	ole					
Eye protection: S	Safety g	lasses			. '						. '	
Body protection:	Protect	ive wo	rk clothin	g.	1			1		· · ·	1	
	1							14		1	· .	
SECTION	9. PH	IYSI			CHE	MICA		OPE	RTIES	5		
Information on b	asic phy	vsical a	and chem	ical pro	perties							
Appearance:						н н н	· · ·	1			1	
Form: Powder	1	1. 1.	1	·	1. 1.	:1	1	14. 14.	t.	1	14	
Color: White												

Odor threshold: No data available. pH: N/A

Melting point/Melting range: No data available

Odor: No data available

Boiling point/Boiling range: No data available

Sublimation temperature / start: No data available

Flammability (solid, gas): No data available.

				. '							
Ignition temperature:	No data	available		÷.,							
Decomposition tempe	erature: N	lo data a	vailable								
Autoignition: No data	available	9	`	· · .		·		1	· · ·	· · .	
Danger of explosion:											
Explosion limits:	. '		1			1					
Lower: No data availa	ble 🧯	н 1 — 1	1 I 1	1	н 1 — 1	1 - 1 1		н 1 — 1		1	
Upper: No data availa	ibleVapo	or pressui	re: N/A	·	:	·	·		·	·	
Density at 20 °C (68 °	F): 2.779	9 g/cm									
3 (23.191 lbs/gal)				. '					:**		
Relative density: No d	lata avai	lable.		1	н 1. т.		1	н 1. т.			
Vapor density: N/A		i.	1	1. 1.	:	1	1. 1.	:	·	1. 1.	
Evaporation rate: N/A											
Solubility in Water (H			: • •			; • •			: • •		
2 O): Insoluble	1			1	н 1 - 1		÷.,	н 1 - 1	н н н	4. 1	
Partition coefficient (n	-octanol	/water): N	No data a	availab	le.	1		:	1	14	:
Viscosity:											
Dynamic: N/A			1 1 1						111		
Kinematic: N/A											
Other information											
No data available			1 			1			1		
an an an			1.1.1			1 1 1 1			1.1.1		
SECTION 10.											
Reactivity					1 I						
No data available			1	14		1	1. 1.	:	1	1	
Chemical stability											
J											

Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used a	ind store	d accor	ding to s	pecificat	ons.	н 1 - 1		÷.,	
Possibility of hazardous reactions									
Reacts with strong oxidizing agents		· · .	: ¹				1	11	;
Conditions to avoid No data available	;	2		; ···			; ···	al a	.'
Incompatible materials:	1 - 1 1		1 1 1			н 1 - 1			
Oxidizing agents Hazardous decomposition products:	1 1	1. 1.	:	1	14. 1	÷	1	14. 1	
Phosphorus oxides (e.g. P2O5) Aluminum oxide				; · ·					

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	111		1999 - C. 1997 -	: * *	11	199	111	1
Acute toxicity: No effects known.						1		
LD/LC50 values that are relevant for cla	ssificati	on: No	data		1.	, , ,		
Skin irritation or corrosion: Causes skin	irritatior	ı. [']		1 1	1. 1.	:	1	1. 1.
Eye irritation or corrosion: Causes serio	us eye i	rritation	l.					
Sensitization: No sensitizing effects kno	wn.						111	
Germ cell mutagenicity: No effects know	vn.							1
Carcinogenicity:								
No classification data on carcinogenic p	ropertie	s of this	s material	is availa	able fro	m the EP/	A, IARC	,
NTP, OSHA or ACGIH.								
Reproductive toxicity: No effects known	-							
Specific target organ system toxicity - re	epeated	exposu	ire: No effe	ects kno	own.			1
Specific target organ system toxicity - si	ngle ex	oosure:	May caus	e respi	ratory i	ritation.		
Aspiration hazard: No effects known.					· .			
Subacute to chronic toxicity: No effects	known.							
Additional toxicological information:					1			
To the best of our knowledge the acute	and chr	onic tox	cicity of thi	s subst	ance is	not fully k	nown.	1

				. ' '			. '				-
SECTION 12	2. ECOI	LOGIC		NFO	RMA ⁻	ΓΙΟΝ		: : .		1	
Toxicity		: ¹		1. 1.	1	1. 1.	14. 14.	l'	1 1	1. 1.	
Aquatic toxicity:											
No data available						111		111			
Persistence and de	egradability	/	· · ·							1	
No data available Bioaccumulative po		ť	5	1.	a".	1		af l	5	Ч.,	
No data available Mobility in soil	er jer		;			111	d.		:"		
No data available		н 1 - 1	н н н	1			÷.,				
Additional ecologic	al informati	ion:	1		a' i	·	· .	a' i	·	÷.,	
Avoid transfer into	the environ	iment.									
Results of PBT and	d vPvB asse	essment									
PBT: N/A /PvB: N/A			1 I 1	÷.	1 1 - 1	1 - 1 1	÷.	н н н	1 - 1 1	:.	
Other adverse effe	cts		1. J.			÷.,	1.		·	1. 1.	
No data available											
<u> </u>	<u>,</u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>								,
SECTION 13	3. DISP	OSAL		ISID	ERAT	IONS	: ,			÷.,	
Waste treatment m	nethods		1. s. s.	1. 1.	: ¹	1	1. 1.	e l'	·	14	
Recommendation											
Consult official regu	ulations to	ensure pr	oper di	sposal.		111			111		
Uncleaned packagi Recommendation:											
				· · · ·			· .		1	· · · ·	

SECTION 14. TRANSPORT INFORMATION

			1 1 1	1		111	. '				
UN-Number	1			1	н 1 - 1					÷.,	
DOT, ADN, IMDG, IAT N/A		i'	5		;	·	· .	:	5	· ·	:
UN proper shipping na DOT, ADN, IMDG, IAT			:			;					
N/A	1			1			1	1 1 1		1	
Transport hazard class DOT, ADR, ADN, IMD	· · ·	:'	5	1. 1.	:	÷	Ч.,	:	5	<u>с</u> .	:
Class N/A			111			;			11		
Packing group	1	н 1 - 1		1	н 1 - 1		1			1	
DOT, IMDG, IATA N/A					;			:	1	1. 1.	:
Environmental hazard	S:		; · ·						;**		
N/A Special precautions fo	ruser	н 1. н		;		• •	1			:	
N/A	14. 14.	:	·	1. 1.	:	1	1. 1.	÷	1	14	:
Transport in bulk acco	rding to	Annex II	of MAR	POL73	/78 and 1	the IBC (Code				
N/A						; · · ·					
Transport/Additional in	formatio	on:DOT	1 1	1						1	
Marine Pollutant (DOT):										
No			100 100			1 m			· · ·		

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS GHS label elements, including precautionary statements

Hazard pictograms GHS07

Signal word: Warning

Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed.

Prop 65 - Developmental toxicity, male Substance is not listed.

Information about limitation of use:

For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use)

Substance is not listed. Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.