

SAFETY DATA SHEET

	н 1 - 1	111		н 1 - 1		, , ,		111	Date	Accesse	ed: 25/08	B/2023
÷	14	Ч.,	: '	1. 1.		:1		С.	Dat	e Revise	ed: 10/01	1/2023
:		1. 1.	1	:	1. 1.	:	1	1. 1.	:		1997 - 19	:
SEC	CTION	1. ID	ENT	IFICA								
Produ	uct Name						, , ,			н 1 - 1		
	#: 14284-					: 1	с. С.	С.,	÷	1.	· · .	:
Relev	vant iden	tified us	ses _. of 1	the subs	tance: S	Scienti	fic resea	rch and	develo	opment	·	
Supp	lier detai	ls:										
	ord Advar il: sales@			m	111	1 1 - 1	н 1 — 1	111	1 1 - 1		111	
	949) 407-				· · .			· · · .			··.	:
				_ake For								
	ess: 2300											

Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No data available GHS label elements, including precautionary statements Hazard pictograms GHS07

Signal word Warning		1.	· · .		1. 1.	· · .	:	1. 1.	· · · .	:	· .
Hazard statements											
H315 Causes skin irrita	tion.						:			:	
H319 Causes serious e	eye irrita	ation.									
H335 May cause respir	atory ir	ritation.			н 1. 1.						
Precautionary statemer	ntsP26	1 Avoid br	reathing	dust/fi	ume/gas/	/mist/vap	ors/spr	ay.	· · · .	:	÷.,
P280 Wear protective g	loves/p	protective	clothing	J∕eye p	rotection	/face pro	otection	l. :			
P305+P351+P338 IF IN	N EYES	S: Rinse c	autiousl	y with	water for	several	minute	s. Remo	ve conta	ct	
lenses, if present and e	asy to	do. Contir	nue rinsi	ing.							
P304+P340 IF INHALE	D: Ren	nove pers	on to fre	esh air	and keep						
P405 Store locked up.		1. 1.	•••			· · .		14. 1	· · .	:	÷.,
P501 Dispose of conter	nts/con	tainer in a	accordar	nce wit	h local/re	gional/n	ational	/internati	onal		
regulations.											
WHMIS classification			: • •								
D2B - Toxic material ca			c effects								
Classification system			· · ·		1	11.	:		· · .	1	÷.,
HMIS ratings (scale 0-4	!) :		1. 1.				:		14. 14.	:	
(Hazardous Materials lo	dentific	ation Syst	tem)								
HEALTH		н 1 — 1		, , ,	1 1 1	111					
FIRE				. '	· .						
REACTIVITY	1			1							
1 :	l.	1	1.			14			14	1	
1											
1 · · · · · · · · · · · · · · · · · · ·	, , ,		: * *	, , ,	н н н	111			111	н 1 1.	
Health (acute effects) =	:1		··.		14. 1				· · .	1	÷.,
Flammability = 1											
Physical Hazard = 1				1			1			:	
Other hazards											
Results of PBT and vPv	vB asse	essment				1					
PBT: N/A		1. 1.	· · .		1.	· · · .			•••	ť	÷.,

vPvB: N/A	· · .	:	1.		;		· · ·	:	14. 14.	· · .	:
		1	1		;			;	:		:
SECTION	3. CC	MP	OSIT	ION/IN	IFO	RMATI	ON (on II	NGRE	DIEN [.]	ΓS
Substances	111		н 1 — 1	111							
CAS No. / Sub	stance Na	ame:	14. 14.	· · .	;				1.	· · .	;
14284-93-6 Ru Identification nu			-pentan	edionate	:'		14. 14.	, , ,	:	19. 19.	:
EC number: 23	8-1,93-0					н 1 - 1	1 1 1 1		н 1 - 1		
at the					;					··.	:
SECTION	4. FIF	RST				S	· .				
Description of f	irst aid m	easure	es		,			·			
lf inhaled:							1.1.1			111	
Supply patient	with fresh	n air. If									
Seek immediat	e medica	l advic		· · ,			11.			· · · ·	
In case of skin	contact:	;		1. 1.	;		1			1. 1.	
Immediately wa	ash with s	soap a	nd wate	r; rinse th	orougł	ıly.					
Seek immediat	e medica	l advic	e.	111	1		: ' '			111	
In case of eye	contact:										
Rinse opened e	eve for se					vater. Cor				· · · ·	:
If swallowed:					•	÷				1.	;
Seek medical t											
Information for	doctor		н 1. т.		1	н 1. т.			н 1 1.		
Most important	symptom	ns _: and	effects,	both acu	ite and	delayed:	· · .			· · .	;
No data availat	oleIndicat	ion of	any imm	nediate m	nedical	attention a	and spe	ecial tre	eatment r	eeded:	
No data availat	ble		1	· ,	;		1		;		

SECTION 5. FIREFIGHTING MEASURES

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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:

Carbon monoxide and carbon dioxide

Protective equipment: Wear self-contained respirator.

Wear fully protective impervious suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures														
Use personal protective equipment. Keep unprotected persons away.														
Ensure adequate ventilation														
Environmental precautions: Do not allow	materia	al to be	released	to the e	environ	ment with	out offic	cial						
permits.		1 1 1	н 1 - 1	1 1 1 1										
Methods and materials for containment a	and clea	nup: E	nsure ade	quate	ventilati	ion.								
Prevention of secondary hazards: No spe	ecial me	easures	s required.											
Reference to other sections	1. 1.						1.	i.						
See Section 7 for information on safe ha	ndling													
See Section 8 for information on persona	al protec	ction ec	luipment.											
See Section 13 for disposal information.						1.	· · · .	:						

SECTION 7. HANDLING AND STORAGE

Handling Precautions for safe handling

	1 1 1							
Keep container tightly sealed.	· · .		14	· · .		1. 1.		
Store in cool, dry place in tightly closed	d containe	ers.						
Ensure good ventilation at the workpla	ce.							
nformation about protection against ex	xplosions	and fi	res: No d	lata avail	able			
Conditions for safe storage, including a	any incom	npatibi	ities					
Requirements to be met by storerooms	s and rece	eptacle	es: No sp	ecial rec	luireme	ents.	с.,	÷
nformation about storage in one comm	non stora	ge fac	lity: Stor	e away f	rom ox	idizing a	gents.	
Further information about storage cond	ditions:				;	1		
Keep container tightly sealed.					,			
Store in cool, dry conditions in well-sea	aled conta					1 1		
Specific end use(s) No data available	· · · .	:	1.		i.	14		i.
	· · .			· · .			· · .	
SECTION 8. EXPOSURE PROTECTION	CON	TRO	LS/PI	ERSO	NAL	•		
PROTECTION	technical	syster	ns:	: 			: 	
PROTECTION Additional information about design of Properly operating chemical fume hood	technical d designe	syster	ns:	: 			an avera	age
PROTECTION Additional information about design of Properly operating chemical fume hood ace velocity of at least 100 feet per mi	technical d designe inute.	syster ed for h	ns: iazardou	s chemic	als and	d having		-
PROTECTION Additional information about design of Properly operating chemical fume hood ace velocity of at least 100 feet per mi Control parameters	technical d designe inute.	syster ed for h	ns: nazardou	s chemic	als and	d having		-
PROTECTION Additional information about design of Properly operating chemical fume hood ace velocity of at least 100 feet per mi Control parameters Components with limit values that requ	technical d designe inute.	syster ed for h	ns: nazardou	s chemic	als and	d having		-
PROTECTION Additional information about design of Properly operating chemical fume hood ace velocity of at least 100 feet per mi Control parameters Components with limit values that requi	technical d designe inute.	syster ed for h oring a	ns: lazardou at the wo	s chémic rkplace:	als and	d having	: 	
PROTECTION Additional information about design of Properly operating chemical fume hood ace velocity of at least 100 feet per mi Control parameters Components with limit values that requision None.	technical d designe inute. uire monite	syster ed for h oring a	ns: lazardou at the wo	s chémic rkplace:	als and	d having	: 	
PROTECTION Additional information about design of Properly operating chemical fume hood ace velocity of at least 100 feet per mi Control parameters Components with limit values that requive None. Additional information: No data Exposure controls	technical d designe inute. uire monite	syster ed for h	ns: lazardou at the wo	s chemic rkplace:	als and	d having		
PROTECTION Additional information about design of Properly operating chemical fume hood ace velocity of at least 100 feet per mi Control parameters Components with limit values that requive None. Additional information: No data Exposure controls	technical d designe inute. uire monit	syster ed for h	ns: hazardou at the wo	s chemic	als and	d having		
Additional information about design of Properly operating chemical fume hood ace velocity of at least 100 feet per mi Control parameters Components with limit values that requinance. Additional information: No data Exposure controls Personal protective equipment	technical d designe inute. uire monito	syster ed for h oring a	ns: hazardou at the wo	s chemic rkplace: emicals.	als and	d having		
PROTECTION Additional information about design of Properly operating chemical fume hood ace velocity of at least 100 feet per mi Control parameters Components with limit values that requinance None. Additional information: No data Exposure controls Personal protective equipment Follow typical protective and hygienic p	technical d designe inute. uire monita practices s and feed	syster ed for h oring a for hau	ns: hazardou at the wo	s chemic rkplace: emicals.	als and	d having		
Additional information about design of Properly operating chemical fume hood ace velocity of at least 100 feet per mi Control parameters Components with limit values that requinance. Additional information: No data Exposure controls Personal protective equipment Follow typical protective and hygienic parameters Components from foodstuffs, beverages	technical d designe inute. uire monito practices and feed lothing im	syster ed for h oring a for hau I. imedia	ns: hazardou at the wo ndling ch tely.	s chemic rkplace: emicals.	als and	d having		

Maintain an ergonomically appropriate working environment.

Breathing equ	ipment:	Use sui	table res	pirator w	hen hig	gh conce	entrations	are pr	esent.		
Protection of I	nands:	,	I	,	ı	,	ı	1	ł		
Impervious glo	oves	1		14				:	:	14	÷
Inspect gloves	s prior to	use.									
The selection	of suitab	ole glove	es not or	nly deper	ids on t	he mate	rial, but a	also on	quality. C	Quality w	rill ¹
vary	· · ·	:	1.	· · .		·	· · .		·	· · .	:
from manufac											
Penetration tir	ne of glo	ove mate	erial (in r	minutes)	No dat	a availab	ole			14	ť
Eye protectior		0									
Body protection	on: Prote	ctive wo	ork cloth	ing.		н 1 - 1			н 1 - 1	111	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical a		cal prop	perties							
Appearance:										
Form: Crystalline			:		· · .	1			ť	
Color: Red	1	1.		1			:			
Odor: No data available										
Odor threshold: No data availa	ble.	; • •	1 1 1	н 1 - 1				: • •		
pH: N/A										
Melting point/Melting range: 26	0 °C (500	°F) (de	ec)		· · .	1			ť	
Boiling point/Boiling range: No	data availa	able		1				1. 1.	t.	
Sublimation temperature / start	: No data	availab	ole							
Flammability (solid, gas) No da	ta availab	le.	1 1 1	н 1 - 1				; • •		
Ignition temperature: No data a	ivailable	· · .		·			1.	· · .		,
Decomposition temperature: No	o data ava									
Autoignition: No data available			ť	1				14. 1		
Danger of explosion: No data a	vailable.									
Explosion limits:							н 1 1.	;**		
Lower: No data available	· .	· · .	:1		· · .	÷		· · .	ť	

		1 I						11			
Upper: No data availat	ole	· .	· · .			· · .		1			۰.
Vapor pressure: N/A											
Density: No data availa	able					· · .					
Relative density No da	ita avail	able.									
Vapor density N/A							, , ,	н н н			
Evaporation rate N/A		1.	· · ·			· · · .			11. 1		
Solubility in / Miscibility	/ withW	ater: Partl	y solub	le	:	· .					:
Partition coefficient (n-	octanol	/water): N	o data a								
Viscosity:						1 - 1 - 1 1					:
Dynamic: N/A											
Kinematic: N/A			· · · .	1		· · · .	:		11.	1	
Other information No c	lata ava	ilable			-		l.	1			

SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available		1	1.			' .	· · .	1
Chemical stability Stable under recomme	nded st	orage	conditions		:	-	14. 19	1
Thermal decomposition / conditions to be	avoide	d: Dec	ompositio	n will nc	ot occur	if used a	nd store	ed
according to specifications.		1		1 1 1 1	1 1 - 1		: ' '	
Possibility of hazardous reactions Reacts	with st	rong ox	idizing ag	jents				
Conditions to avoid No data available								
Incompatible materials: Oxidizing agents		;		· · .	ť			:
Hazardous decomposition products:								
Carbon monoxide and carbon dioxide		1			1			
Metal oxide fume	· · ·	;		· · .	1		•••	:

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data

Skin irritation or corrosion: Causes skin irritation.

Eye irritation or corrosion: Causes serious eye irritation.

Sensitization: No sensitizing effects known.

Germ cell mutagenicity: No effects known.

Carcinogenicity: No classification data on carcinogenic properties of this material is available from the

EPA, IARC, NTP, OSHA or ACGIH.

Reproductive toxicity: No effects known.

Specific target organ system toxicity - repeated exposure: No effects known.

Specific target organ system toxicity - single exposure: May cause respiratory irritation.

Aspiration hazard: No effects known.

Subacute to chronic toxicity: No effects known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this

substance is not fully known.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity	,		н н			11			
Aquatic toxicity: No data available	· · .	:	14		:	14. 1	· · · ·	:	
Persistence and degradability No data	available	e			:	1			
Bioaccumulative potential No data avai									
Mobility in soil No data available	; • •							:	
Additional ecological information:									
Do not allow material to be released to	the envi	ronme	nt withou	ut official	permits	S.	11		
Avoid transfer into the environment.	1. 1.			1. 1.	:	:		:	
Results of PBT and vPvB assessmentF	PBT: N/A	λ							
vPvB: N/A		н 1 — 1			н 1 — 1		: * *		
Other adverse effects No data available	Э								

and a second									
SECTION 13. DISP	OSAL		ISID	ERAT	IONS		1. 1.	11. 1	÷
Waste treatment methods		14	:	-	1.	:		1	÷
Recommendation Consult offi	cial regu	lations to	o ensur	e proper	disposal	l.			
Uncleaned packagings:				1			н 1 — 1		
Recommendation: Disposal m									
at di tu at	:		1	1	1	:	:		:
SECTION 14. TRAN	NSPO	RT IN	FOR		ON				
UN-Number		111	, , ,		111	, , ,		111	
DOT, ADN, IMDG, IATA N/A			:	1		1			t,
UN proper shipping name		· .			·			· .	
DOT, ADN, IMDG, IATA N/A									
Transport hazard class(es)		111			111			:**	
DOT, ADR, ADN, IMDG, IATA	A								
Class N/A	· · ·	· · ·						· · · ·	l'
Packing group		1. 1.							
DOT, IMDG, IATA N/A									
Environmental hazards: N/A				, , ,					
Special precautions for user N	J/A			·					
Transport in bulk according to									
Transport/Additional informati	on:	14	1		14			14	t.
DOT									
Marine Pollutant (DOT): No	н 1. т.	;**	, , ,	н 1 — 1	;**		н 1. т.	111	
UN "Model Regulation": -							· .		

SECTION 15. REGULATORY INFORMATION

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

			1 1 1		1 1						
Hazard pictograms				;	۰.	· · .			· · .		۰.
GHS07											
Signal word Warning	1		Ч., С.,	1		Т.			14. 1	:	
Hazard statements											
H315 Causes skin irrita	tion.										
H319 Causes serious e	ye irrita	ition.	· · .	:		· · .	i.		· · .	:	۰.
H335 May cause respir	atory irr	ritation.			1						
Precautionary statemer	nts			:		· ,	:				
P261 Avoid breathing d	lust/fum	ie/gas/mist	/vapors	s/spray.	• ,						
P280 Wear protective g	loves/p	rotective c	lothing/	eye pro	otection/fa	ace prot					
P305+P351+P338 IF IN	I EYES	: Rinse ca	utiously	with w	ater for se	everal n	ninutes	. Remove	contact	t ^{: '}	1.
lenses, if present and e	asy to c	do. Continu	ue rinsir	ng.		1. 1.	:			:	
P304+P340 IF INHALE	D: Rem	iove perso	n to fre	sh air a	ind keep o	comfort	able for	⁻ breathing	J.		
P405 Store locked up.			1 1 1 1			: • •					
P501 Dispose of conter	nts/cont	ainer in ac	cordan	ce with	local/regi	ional/na	ational/i	nternation	al		
regulations.National reg	gulation	S	· · .	:	· ,	· · .	:	<u>'</u> ,	· · .		
All components of this p	product	are listed i	n the U	I.S. Env	vironment	al Prote	ection A	gency To	xic	:	
Substances Control Act	t Chemi	cal substa	nce Inv	entory.							
All components of this p	product	are listed of	on the (Canadia	an Domes	stic Sub	stance	s List (DSI	_) [.] .		
SARA Section 313 (spe	ecific to	kic chemica	al listing	gs) Sub	stance is	not liste	ed.				
California Proposition 6	5										
Prop 65 - Chemicals kn	own to	cause can	cer Sub	ostance	e is not lis	ted.			14.	:	
Prop 65 - Development	al toxici	ty Substar	nce is n	ot listed	d.						
Prop 65 - Development	al toxici	ty, female	Substa	nce is i	not listed.				111	· · ·	
Prop 65 - Development	al toxici	ty, male S	ubstanc	ce _l is no	ot listed.	· · .			· · .	:	۰.
Information about limita	tion of u	use: For us	se only	by tech	nically qu	ualified i	individu	ials.			
Other regulations, limita	ations a	nd prohibit	ive reg	ulations	6	' .	1	1	'.		
Substance of Very High	n Conce	ern (SVHC)		ling to	the REAC	CH Regu	ulations	(EC) No.	1907/2	006.	
Substance is not listed.		1 I		1 1	л п	,					,
		·		~ <u>-</u>			–	i	<u></u>		

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.

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		н н н				, , , , ,			1.1.1					
1	t.	14. 14	···.	1	1.	· · ·	1		11	1	1.	· · .		÷.,
· .	e ^r	;	14. 1	:	:	Ч. М.		:		:	:	Ч. М.	:	
		н н н	:**	1 1 - 1		; · ·	1 1 - 1		111			;**		
۰.	, ¹	14. 14.	···,	e'	14. 14.	· · .		1. 1.	9. 19	÷	14. 14.	· · .		÷.,
۰.	ť		14. 1		:	14. 1	;	:			:	14. 14.		
			; · ·				1 1 1		117	: 		111	, , ,	
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