

Page: 1 of 5

rtaking								
Product Code:       20241         Product Name:       Vitamin A         Supersumption       (2E 4E 6E 8E) 2.7 dimethal 0.(2.6.6 trimethalaudahay 1 on 1 vil)none 2.4.6.8 tetraon 1 oli								
Relevant identified uses:       For research use only, not for human or veterinary use.         Details of the Supplier of the Safety Data Sheet:								
1-3335								
4-9300								
7-3887								
Classification of the Substance or Mixture:								
Serious Eye Damage/Eye Irritation, Category 2								
Skin Sensitization, Category 1								
nses, if present and easy								
>								

Revision: 01/26/2017

P308+313: IF exposed or concerned: Get medical attention/advice.         P333+313: If skin irritation or rash occurs, seek medical advice/attention.         P337+313: If eye irritation persists, get medical advice/attention.         P363: Wash contaminated clothing before reuse.         GHS Storage and Disposal Phrases:         Please refer to Section 7 for Storage and Section 13 for Disposal information.         2.3       Adverse Human Health         Causes serious eye irritation.         Effects and Symptoms:       Material may be irritating to the mucous membranes and upper respiratory tract.         May cause an allergic skin reaction.       May cause an allergic skin reaction.         May cause skin or respiratory system irritation.       May damage fertility or the unborn child.         To the best of our knowledge, the toxicological properties have not been thoroughly investigate         CAS # /       Hazardous Components (Chemical Name)/         REACH Registration No.       100.0 %       200-683-7       Skin Sens. 1: H317         Eye Damage 2: H319       Toxic Repro. 1B: H360       Aquatic (C) 4: H413								
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Section 4. First Aid Measures								
Description of First Aid								
Measures:								
In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person. Get immediate medical attention.								
In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamir clothing. Get medical attention if symptoms occur. Wash clothing before reuse.								
In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes exami and tested by medical personnel.								
In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an								
In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so be								
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	equivalent), and full protective gear to prevent contact with skin and eyes.						
	S	ection 6. Accidental Release Measures					
6.1	Protective Equipment and A	Avoid raising and breathing dust, and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirate and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).					
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.					
6.3		Contain spill and collect, as appropriate. Fransfer to a chemical waste container for disposal in accordance with local regulations.					
		Section 7. Handling and Storage					
7.1		void breathing dust/fume/gas/mist/vapours/spray. void prolonged or repeated exposure.					
7.2	Precautions To Be Taken K in Storing: S	eep container tightly closed. tore in accordance with information listed on the product insert.					
	Sectio	on 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:	· · · ·					
8.2	Exposure Controls:						
8.2.1	Engineering Controls	lse process enclosures, local exhaust ventilation, or other engineering controls to control airbo evels below recommended exposure limits.					
8.2.2	Personal protection equipm	ient:					
	Eye Protection: S	afety glasses					
Protective Gloves:       Compatible chemical-resistant gloves         Other Protective Clothing:Lab coat							
	V	<ul> <li>nan Do not take internally.</li> <li>Facilities storing or utilizing this material should be equipped with an eyewash and a safety show</li> <li>Wash thoroughly after handling.</li> <li>No data available.</li> </ul>					
	Sec	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	al and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A solid					
	pH:	No data.					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data. No data.					
	Evaporation Rate: Flammability (solid, gas):	No data available.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Vapor Pressure (vs. Air or n						
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	· · · ·						



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	Specific Gravity (Water = 1): No data.									
	Solubilit	y in Water:	No data.							
Solubility Notes:			Soluble in:	: EtOH; MeOH; o	chloroform	, ether; cy	clohexane;			
	Octanol/	Water Partition	No data.							
	Coefficie	ent:								
	Autoigni	ition Pt:	No data.							
	Decomp	osition Temperat	ure: No data.							
	Viscosit	y:	No data.							
9.2	Other Inf	ormation								
	Percent	Volatile:	No data.							
		ar Formula & Weig		286.5						
			-	10. Stability	v and F	Reactiv	vity			
10.1	Reactivi	tv·	No data available.		y anu i	Veacur	ity			
10.2	Stability	-		Stable [ X ]						
10.3	-	Note(s):	Stable if stored in		h informati	on listed o	n the product	insert		
. 0.0	Polymer		Will occur [ ]	Will not occur [						
10.4	-	ons To Avoid:	No data available.	-	<u>v1</u>					
10.4										
10.5	-	tibility - Materials	oxidizing agents							
	To Avoid									
10.6	Hazardo		carbon dioxide							
	-	osition or	carbon monoixde							
	Byprodu	icts:								
			Section 1	1. Toxicolo	ogical li	nforma	tion			
11.1	Informat	ion on	The toxicological	he toxicological effects of this product have not been thoroughly studied.						
	Toxicolo	gical Effects:	/itamin A - Toxicity Data: Oral LD50 (rat): 2 gm/kg; Oral LD50 (mouse): 1510 mg/kg;							
			Intraperitoneal LD	ntraperitoneal LD50 (mouse): 1510 mg/kg;						
	Chronic	Toxicological	/itamin A - Investigated as a drug, mutagen, natural product, and reproductive effector.							
	Effects:		Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.							
			See actual entry in RTECS for complete information.							
			Vitamin A RTECS	Number: VH67	50000					
CAS	¥	Hazardous Com	ponents (Chemica	al Name)		NTP	IARC	ACGIH	OSHA	
68	-26-8	All-trans-Retinol				n.a.	n.a.	n.a.	n.a.	
		ł	Section	12. Ecolog	ical Inf	ormati	on			
12.1	Toxicity		Avoid release into	0	,					
12.1	TOXICITY		Runoff from fire control or dilution water may cause pollution.							
12.2	Persiste	nce and	No data available.							
12.2	Degrada									
40.0	-	-	Ne dete eveileble							
12.3		mulative	No data available.							
	Potentia									
12.4	Mobility		No data available.							
12.5	Results	of PBT and vPvB	No data available							
	assessm	nent:								
12.6	Other ad	lverse effects:	No data available							
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		Section 13. Dispos	al Considera	ations					
13.1 Waste I	Disposal Method:	Dispose in accordance with loca	I, state, and federal	regulations.					
		Section 14. Trans	sport Informa	ation					
14.1 LAND	RANSPORT (US	DOT):							
DOT Prope	er Shipping Name	Not dangerous goods.							
DOT Haza	rd Class:								
UN/NA Nu	mber:								
	RANSPORT (Eur								
	Shipping Name:	Not dangerous goods.							
UN Numbe Hazard Cla									
	ANSPORT (ICAO/	IATA):							
	Shipping Name:	Not dangerous goods.							
Additional Tra		Transport in accordance with lo	cal, state, and feder	al regulations.					
Information:									
		Section 15. Regul	atory Informa	ation					
EPA SARA (S	uperfund Amendn	nents and Reauthorization Act of	•						
CAS #	S # Hazardous Components (Chemical Name)			S. 304 RQ	S. 313 (TRI)				
68-26-8	All-trans-Retinol		No	No	No				
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists						
68-26-8 All-trans-Retinol			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No						
Regulatory Inf Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.							
		Section 16. Oth	er Informatio	on					
Revision Date:		01/26/2017							
Additional Info	rmation About	No data available.							
This Product:									
Company Polic	cy or Disclaimer:	DISCLAIMER: This information is currently available to us. However express or implied, with respect use. Users should make their or	er, we make no war to such information	ranty of merchanta , and we assume n	bility or any other warranty, o liability resulting from its				
		their particular purposes.							
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