

# United States Material Safety Data Sheet

The Ortho Group P.O. Box 190 Marysville, Ohio 43040 United States 24 h. EMERGENCY TELEPHONE NUMBER CHEMTREC (U.S.) 1-800-424-9300 CHEMTREC (International) 1-703-527-3887 Non-Emergency Calls 1-937-644-0011

## ORTHO ROSE & FLOWER INSECT & DISEASE CONTROL CONCENTRATE

1. Product and company	y iden	tification
MSDS # EPA Registration Number:	:	32000002380 8033-108-239
2. Hazards identification	n	
Physical state	:	liquid [liquid]
Color	:	Light yellow
Signal word	:	CAUTION!
<b>OSHA/HCS</b> status	:	This material is considered hazardous by the OSHA Hazard
		Communication Standard (29 CFR 1910.1200).
<b>Emergency Overview</b>		Harmful if absorbed through the skin.
		Harmful if swallowed.
		Harmful if inhaled.
		Causes moderate eye irritation.
		Avoid contact with skin, eyes or clothing.
		Avoid breathing dust, vapor or spray mist.
		Wash throughly with soap and water after handling and before eating,
		drinking, chewing gum, or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions
		in some individuals.
Potential acute health effects		
Inhalation	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Skin	:	May cause sensitization by skin contact.
Eyes	:	No known significant effects or critical hazards.
Target organs	:	Contains material which causes damage to the following organs: upper respiratory tract
		eyes
		central nervous system (CNS)

#### <u>Potential chronic health effects</u> : See section 11 for more information.

#### **Over-exposure signs/symptoms**

#### Inhalation

: No specific data.

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Ingestion	:	No specific data.
Skin	:	Adverse symptoms may include the following:
		irritation
		redness
Eyes	:	No specific data.
Medical conditions aggravated	:	Pre-existing skin disorders may be aggravated by over-exposure to this
by over-exposure		product.
See toxicological information (Se	ectior	n 11)

# 3. Composition/information on ingredients

Name Propanol, 1(or 2)-(2-methoxymethylethoxy)-			CAS number	%	
			34590-94-8	>70 - <=100	
4. First aid measures					
Eye contact	:	• •	f present, after the first 5		
Skin contact	:	Take off contaminated c	othing. Rinse skin imme es. Call a poison control o	diately with plenty of	
Inhalation	:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.			
Ingestion	:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.			
Notes to physician	:				
5. Fire-fighting measures	S				
Flammability of the product	:	In a fire or if heated, a pr	essure increase will occu	r and the container may	

		burst.
Extinguishing media		
Suitable Not suitable	:	Use an extinguishing agent suitable for the surrounding fire. None known.
Special exposure hazards	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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6. Accidental release me	asure	s
Personal precautions	:	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	:	To protect the environment, do not allow pesticide to enter or run-off into storm drains, drainage ditches gutters or surface waters
Methods for cleaning up		
Small spill Large spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Dike spill area and do not allow product to reach soil, surface water, ground water or sewers. Contain and collect spillage with non-combustible, absorbart metricl and place in container for
		with non-combustible, absorbent material and place in container for disposal.
7. Handling and storage		
Handling	:	Avoid inhalation or contact with skin, eyes or clothing. Avoid container breakage. Do not contaminate water sources when disposing of equipment washwater or rinsate. Keep out of lakes, stream or ponds. Keep out of reach of children.
Storage	:	Keep from freezing. Store in original container in a cool, dry, well- ventilated area inaccessible to children and pets. Do not contaminate food or feedstuffs.

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

Ingredient	Exposure limits
Propanol, 1(or 2)-(2-methoxymethylethoxy)-	<b>OSHA PEL (1993-06-30)</b> Notes: Skin contact does contribute to exposure.
	PEL: Permissible Exposure Level 600 mg/m3, 100 ppm <b>NIOSH REL</b> (1994-06-01) Notes: Recommends the need for personal protective clothing.
	Time Weighted Average (TWA) 600 mg/m3, 100 ppm <b>NIOSH REL</b> (1994-06-01) Notes: Recommends the need for personal protective clothing.
	Short Term Exposure Limit (STEL) 900 mg/m3, 150 ppm ACGIH TLV (1994-09-01) Notes: Skin contact does contribute to exposure.
	TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 606 mg/m3, 100 ppm ACGIH TLV (1994-09-01) Notes: Skin contact does
	contribute to exposure. TLV-STEL: Threshold Limit Value - Short Time Exposure Level 909 mg/m3 , 150 ppm
	Level 505 mg/m5, 150 ppm

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Recommended monitoring procedures Engineering measures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use adequate ventilation to keep the airborne concentrations below the recommended exposure standard.
Hygiene measures	:	Wash thoroughly with soap and water after handling. Remove and launder contaminated clothing before reuse.
Personal protection		
Respiratory	:	No special respiratory protection required. If ventilation is inadequate to keep the airborne concentrations below the recommended exposure standard wear appropriate respiration protection.
Hands	:	Protective gloves are not required, but may be used in situations were significant contact is expected.
Eyes	:	Protective eyewear is not required, but may be used in situations were contact is expected.
Skin	:	Wear long-sleeved shirt, long pants, shoes with socks. Remove and wash contaminated clothing before reuse.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### 9. Physical and chemical properties

Physical state Flash point Burning time Auto-ignition temperature Flammable limits Density Color Odor pH Boiling/condensation point Melting/freezing point Relative density	liquid [liquid] Not Applicable Not Applicable Not Applicable 0.960 g/cm3 Light yellow Not Applicable 5 Not Applicable Not Applicable 0.960
Vapor pressure Vapor density Volatility Odor threshold Evaporation rate Viscosity Solubility Solubility in water	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable

# 10. Stability and reactivity

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Chemical stability	:	The product is stable.
Conditions to avoid	:	No specific data.
Incompatible materials	:	No specific data.
Hazardous decomposition	:	Under normal conditions of storage and use, hazardous decomposition
products		products should not be produced.
Possibility of hazardous	:	Under normal conditions of storage and use, hazardous reactions will not
reactions		occur.

### 11. Toxicological information

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
Product	LD50 Ora	-	> 2,000 mg/kg	-
Product	LD50 Der		> 2,000 mg/kg	-
Conclusion/Summary	Very low	v toxicity to humans	or animals.	
Irritation/Corrosion				
Skin	Mildly ir			
Eyes	Moderate			
Respiratory	May cau	se respiratory irritat	ion	
<u>Sensitizer</u>				
Conclusion/Summary	Skin	Sensitizing		
	Respiratory	Not available	2.	
Chronic toxicity				
Conclusion/Summary	No know	n significant effects	s or critical hazards.	
Carcinogenicity				
Conclusion/Summary	No know	n significant effects	s or critical hazards.	
j,		6		
Mutagenicity				
Conclusion/Summary	No know	n significant effects	s or critical hazards.	
		6		
<u>Teratogenicity</u> Product/ingredient	Result	Species	Dose	Exposure
name	Kesuit	opecies	Dose	Exposure
Conclusion/Summary	No know	n significant effects	s or critical hazards.	
j				
<b>Reproductive toxicity</b>				
Conclusion/Summary	No know	n significant effects	s or critical hazards.	
12.Ecological informa	tion			
Factoriaity	This as	atiaida is tavis ta	141:6	
Ecotoxicity	: This per	sticide is toxic to wi	nume.	
Aquatic ecotoxicity				
Conclusion/Summary	: No kno	wn significant effec	ts or critical hazards.	
Persistence/degradability				
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Conclusion/Summary	: No known significant effe	ects or critical hazards.				
Partition coefficient: n-	: No known significant effe	: No known significant effects or critical hazards.				
octanol/water Other adverse effects	: No known significant effe	No known significant effects or critical hazards.				
13. Disposal consider	ations					
Waste disposal	Disposal should be in acco local laws and regulations.	rdance with applicable re	egional, national and			
14.Transport inform	ation					
<b>Regulatory</b>						
information UN no.	Proper shipping name	Class PG*	<u>* Note</u>			
DOT	Not Regulated					
IATA (C)	Not Regulated					
IATA (P)						
IMDG	Not Regulated					
TDG	Not Regulated					
PG* : Packing group						
15 D. 1.4						

# **15.Regulatory information**

#### **United States**

U.S. Federal regulations	<ul> <li>SARA 302/304/311/312 extremely hazardous substances: No products were found.</li> <li>SARA 302/304 emergency planning and notification: No products were found.</li> <li>SARA 302/304/311/312 hazardous chemicals: No products were found.</li> <li>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Propanol, 1(or 2)-(2-methoxymethylethoxy)-: Acu, Fire hazard - flammable, combustible liquid, pyrophoric</li> <li>Clean Water Act (CWA) 307: No products were found.</li> <li>Clean Air Act (CAA) 112 accidental release prevention: No products were found.</li> <li>Clean Air Act (CAA) 112 regulated flammable substances: No products were found.</li> <li>Clean Air Act (CAA) 112 regulated toxic substances: No products were found.</li> </ul>
United States inventory (TSCA 8b)	: All components are listed or exempted.
<u>State regulations</u> Massachusetts	: The following components are listed: Propanol, 1(or 2)-(2- methoxymethylethoxy)-
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New York	:	None of the components are listed.	
New Jersey	:	The following components are listed: methoxymethylethoxy)-	Propanol, 1(or 2)-(2-
Pennsylvania	:	The following components are listed: methoxymethylethoxy)-	Propanol, 1(or 2)-(2-
California Prop. 65	:	Not listed.	
International regulations			
Canada inventory	: All components are listed or exempted.		
International lists :	Japan i China i Korea i New Zo listed.	lia inventory (AICS): At least one component is near the inventory: At least one component is near the inventory (IECSC): At least one component is nearland Inventory of Chemicals (NZIOC) ines inventory (PICCS): At least one of the inventory (PICCS): A	ot listed. onent is not listed. ot listed. C): At least one component is not

16.Other information		

#### Hazardous Material Information System (U.S.A.) :

Health	2
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.):



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