

ORTHO°

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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 identification

MSDS # : 320000002380 **EPA Registration Number**: 8033-108-239

2. Hazards identification

Physical state : liquid [liquid]

Color : Light yellow Signal word : CAUTION!

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Emergency Overview 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)

Potential chronic health effects: 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

No specific data. **Eves**

Medical conditions aggravated Pre-existing skin disorders may be aggravated by over-exposure to this

by over-exposure product.

See toxicological information (Section 11)

Composition/information on ingredients

Name	CAS number	%
Propanol, 1(or 2)-(2-methoxymethylethoxy)-	34590-94-8	>70 - <=100

4. First aid measures

Eye contact Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of

water for 15 to 20 minutes. Call a poison control center or doctor for

treatment advice.

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.

No specific treatment. Treat symptomatically. Contact poison treatment Notes to physician

specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable 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 may include the following materials: decomposition products

carbon dioxide carbon monoxide

Special protective equipment

for fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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6. Accidental release measures

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 : 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.

Large spill : 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, 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)-	OSHA PEL (1993-06-30) Notes: Skin contact does
	contribute to exposure.
	PEL: Permissible Exposure Level 600 mg/m3, 100 ppm
	NIOSH REL (1994-06-01) Notes: Recommends the need
	for personal protective clothing.
	Time Weighted Average (TWA) 600 mg/m3, 100 ppm
	NIOSH REL (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

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Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

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.

Engineering measures

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 us

: 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 liquid [liquid] Not Applicable Flash point **Burning time** Not Applicable **Auto-ignition temperature** Not Applicable Flammable limits Not Applicable **Density** 0.960 g/cm3 Color Light yellow Not Applicable Odor

pH : 5

Boiling/condensation point : Not Applicable **Melting/freezing point** : Not Applicable

Relative density : 0.960

Not Applicable Vapor pressure Vapor density Not Applicable Volatility Not Applicable **Odor threshold** Not Applicable **Evaporation rate** Not Applicable Viscosity Not Applicable **Solubility** Not Applicable Solubility in water 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

Conclusion/Summary Very low toxicity to humans or animals.

Irritation/Corrosion

Skin Mildly irritating
Eyes Moderate

Respiratory May cause respiratory irritation

Sensitizer

Conclusion/Summary Skin Sensitizing Respiratory Not available.

Respiratory Not available

Chronic toxicity

Conclusion/Summary No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary No known significant effects or critical hazards.

Mutagenicity

Conclusion/Summary No known significant effects or critical hazards.

Teratogenicity

Product/ingredient Result Species Dose Exposure

name

Conclusion/Summary No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary No known significant effects or critical hazards.

12. Ecological information

Ecotoxicity : This pesticide is toxic to wildlife.

Aquatic ecotoxicity

Conclusion/Summary : No known significant effects or critical hazards.

Persistence/degradability

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Conclusion/Summary: No known significant effects or critical hazards.

Partition coefficient: n-

octanol/water

: No known significant effects or critical hazards.

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal Disposal should be in accordance with applicable regional, national and

local laws and regulations.

14.Transport information

Regulatory

information UN no. Proper shipping name Class PG* Note

DOT Not Regulated IATA (C) Not Regulated

IATA (P)

IMDG Not Regulated TDG Not Regulated

PG*: Packing group

15. Regulatory information

United States

U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: No products

were found.

SARA 302/304 emergency planning and notification: No products were

found.

SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard

identification: Propanol, 1(or 2)-(2-methoxymethylethoxy)-: Acu, Fire

hazard - flammable, combustible liquid, pyrophoric Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products

were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products

were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were

found.

United States inventory (TSCA

8b)

All components are listed or exempted.

State regulations

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: Propanol, 1(or 2)-(2-

methoxymethylethoxy)-

Pennsylvania: The following components are listed: Propanol, 1(or 2)-(2-

methoxymethylethoxy)-

California Prop. 65 : Not listed.

International regulations

Canada inventory : All components are listed or exempted.

International lists : Australia inventory (AICS): At least one component is not listed.

Japan inventory: At least one component is not listed.

China inventory (IECSC): At least one component is not listed.

Korea inventory: At least one component is not listed.

New Zealand Inventory of Chemicals (NZIoC): At least one component is not

listed.

Philippines inventory (PICCS): At least one component is not listed.

16.Other information

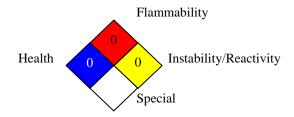
Hazardous Material Information System (U.S.A.):

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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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

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