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#### **United States**

# 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 GROUNDCLEAR YEAR LONG VEGETATION KILLER2

## **Section 1. Identification**

**GHS product identifier** : ORTHO GROUNDCLEAR YEAR LONG VEGETATION

KILLER2

Product type : Pesticide SDS # : 320000015106 EPA Registration Number: : 239-2777

### Relevant identified uses of the substance or mixture and uses advised against

Use only in accordance with label directions.

### Section 2. Hazards identification

This product is regulated by the Environmental Protection Agency (EPA) for label precautionary text see Section 15.

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

Communication Standard (29 CFR 1910.1200).

Classification of the substance or

mixture

EYE IRRITATION - Category 2A

#### **GHS** label elements

Hazard pictograms



Signal word : Warning

**Hazard statements** : Causes serious eye irritation.

#### **Precautionary statements**

General : Read label before use. Keep out of reach of children. If medical advice

is needed, have product container or label at hand.

**Prevention**: Wear eye or face protection. Wash thoroughly after handling.

Response IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If

eye irritation persists: Get medical advice or attention.

Storage Not applicable. Not applicable. **Disposal** 

Hazards not otherwise classified None known.

# Section 3. Composition/information on ingredients

Substance/mixture Mixture Chemical name Not applicable. Other means of identification Not available.

Ingredient name	%	CAS number
Nonanoic acid	> 0 - <= 10	112-05-0
Caustic potash	> 0 - <= 3	1310-58-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the

> upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable

> for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical

attention immediately. Maintain an open airway.

Flush contaminated skin with plenty of water. Remove contaminated Skin contact

clothing and shoes. Get medical attention if symptoms occur. Wash

clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion Wash out mouth with water. If material has been swallowed and the

> exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe.

Never give anything by mouth to an unconscious person.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

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Eve contact Causes serious eye irritation.

Inhalation No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Inhalation

Ingestion

Eve contact Adverse symptoms may include the following: pain or irritation,

watering, redness No specific data. Skin contact No specific data. No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Contact poison treatment specialist Notes to physician

immediately if large quantities have been ingested or inhaled.

Specific treatments No specific treatment.

**Protection of first-aiders** No action shall be taken involving any personal risk or without

suitable training.

See toxicological information (Section 11)

# **Section 5. Fire-fighting measures**

#### Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition

products

In a fire or if heated, a pressure increase will occur and the container

may burst.

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, metal oxide/oxides

Special protective actions for firefighters

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.

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.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate

ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the

product has caused environmental pollution (sewers, waterways, soil

# Methods and materials for containment and cleaning up

For emergency responders

**Environmental precautions** 

Small spill Stop leak if without risk. Move containers from spill area. Dilute with

> water and mop up if water-soluble. Alternatively, or if waterinsoluble, 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. Move containers from spill area. Approach

release from upwind. Prevent entry into sewers, water courses. basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency

contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Do **Protective measures** 

> not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be

hazardous. Do not reuse container.

Advice on general occupational Eating, drinking and smoking should be prohibited in areas where this hygiene

material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See

also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use

appropriate containment to avoid environmental contamination. See

Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### Control parameters

### Occupational exposure limits

Ingredient name	Exposure limits
Nonanoic acid	None.
Caustic potash	OSHA PEL 1989 (1989-03-01). CEIL 2 mg/m3 NIOSH REL (2016-10-01). CEIL 2 mg/m3 ACGIH TLV (1994-09-01). CEIL 2 mg/m3

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

**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.

#### **Individual protection measures**

**Hygiene measures**: Wash hands, forearms and face thoroughly after handling chemical

products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used

when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a

higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved

standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves

cannot be accurately estimated.

**Body protection**: Personal protective equipment for the body should be selected based

on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures

should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

**Respiratory protection**: Based on the hazard and potential for exposure, select a respirator that

meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper

fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

#### **Appearance**

Physical state: Liquid [Solution]Color: Clear to Hazy Green.

Odor : Characteristic
Odor threshold : Not available.

**pH** : 7.5

Melting point: Not available.Boiling point: Not available.Flash point: 102 °C (216 °F)

**Evaporation rate** : Not available. Flammability (solid, gas) : Not available.

Lower and upper explosive : Lower: Not available. (flammable) limits : Upper: Not available.

Vapor pressureNot available.Vapor densityNot available.Density8.85 lb/galRelative densityNot available.SolubilityNot available.Solubility in waterNot available.Partition coefficient: n-Not available.

octanol/water

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Viscosity: Dynamic: 1.17 cPs

Kinematic: Not available.

Flow time (ISO 2431) : Not available.

# Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or

its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will

not occur.

Conditions to avoid : No specific data.

**Incompatible materials** : No specific data.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

# Section 11. Toxicological information

### **Information on toxicological effects**

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure	
ORTHO GROUNDCLEAR YEAR LONG VEGETATION KILLER2					
	LD50 Oral	Rat - Female	> 5,000 mg/kg	-	
	LC50 Inhalation	Rat	> 5 mg/l	4 h	
	LD50 Dermal	Rat	> 5,000 mg/kg	-	

Conclusion/Summary : Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ORTHO GROUNDCLEAR	Eyes - Redness of the	Rabbit	2.3	4 h	7 d
YEAR LONG	conjunctivae				
VEGETATION KILLER2					
ORTHO GROUNDCLEAR	Skin -	Rabbit	1.0		21 d
YEAR LONG	Erythema/Eschar				
VEGETATION KILLER2					

Conclusion/Summary

Skin: Not available.Eyes: Not available.Respiratory: Not available.

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
ORTHO GROUNDCLEAR YEAR	Skin	Guinea pig	Not sensitizing
LONG VEGETATION KILLER2			

Conclusion/Summary

Skin: Not available.Respiratory: Not available.

**Mutagenicity** 

Conclusion/Summary : Not available.

**Carcinogenicity** 

Conclusion/Summary : Not available.

**Reproductive toxicity** 

Conclusion/Summary : Not available.

**Teratogenicity** 

Conclusion/Summary : Not available.

**Specific target organ toxicity (single exposure)** 

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Information on the likely routes of :

exposure

Not available.

Potential chronic health effects

**Conclusion/Summary** : Not available.

General:No known significant effects or critical hazards.Carcinogenicity:No known significant effects or critical hazards.Mutagenicity:No known significant effects or critical hazards.Teratogenicity:No known significant effects or critical hazards.Developmental effects:No known significant effects or critical hazards.Fertility effects:No known significant effects or critical hazards.

# Section 12. Ecological information

**Toxicity** 

**Conclusion/Summary** : Not available.

Persistence and degradability

**Conclusion/Summary** : Not available.

**Mobility in soil** 

Soil/water partition coefficient

(KOC)

Not available.

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

## Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	IMDG	IATA
UN number	-	-	-	-
UN proper shipping name	Not regulated.	Not regulated.	Not regulated.	Not regulated.
Transport hazard class(es)	Not regulated.	Not regulated.	Not regulated.	Not regulated.
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

# Section 15. Regulatory information

**Precautionary statements** 

Signal word

Warning

**Emergency Overview** 

Keep out of reach of children.

Causes substantial but temporary eye injury. Do not get in eyes or on skin or clothing.

Wear safety glasses.

Wash thoroughly with soap and water after handling and before eating,

drinking, chewing gum, or using tobacco.

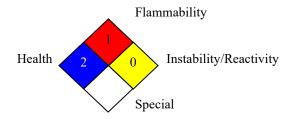
U.S. Federal regulations : United States inventory (TSCA 8b):

All components are listed or exempted.

State regulations California Prop. 65 Not listed.

## **Section 16. Other information**

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



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#### History

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