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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 WEED & GRASS B-GON PATIO & LANDSCAPE WEED AND GRASS KILLER CONCENTRATE

## **Section 1. Identification**

GHS product identifier : ORTHO GROUNDCLEAR WEED & GRASS B-GON PATIO &

LANDSCAPE WEED AND GRASS KILLER CONCENTRATE

Product type : Pesticide/ Fertilizer SDS # : 320000017656 EPA Registration Number : 73327-18-239

#### 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 : SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

GHS label elements

Hazard pictograms



Signal word : Danger

**Hazard statements**: May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

**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**: Obtain special instructions before use. Do not handle until all safety precautions have

been read and understood. Wear protective gloves, protective clothing and eye or face protection. Do not breathe vapor. Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

**Response** : IF exposed or concerned: Get medical advice or attention. Wash contaminated

clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or

rash occurs: Get medical advice or attention.

Storage : Store locked up.

**Disposal**: Dispose of contents and container in accordance with all local, regional, national and

international regulations.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: Not available.Other means of identification: Not available.

Ingredient name	%	CAS number
Dipyrido[1,2-a:2',1'-c]pyrazinediium, 6,7-dihydro-, dibromide	> 0 - <= 3	85-00-7
fluazifop-P-butyl (ISO)	> 0 - <= 1	79241-46-6

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 following exposure or if feeling unwell.

**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 unconscious, place in recovery

position and get medical attention immediately. Maintain an open airway.

**Skin contact**: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. 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. Never give anything by mouth to an

unconscious person.

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

#### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.

**Inhalation**: Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths,

skeletal malformations

**Skin contact**: Adverse symptoms may include the following: irritation, redness, reduced fetal weight,

increase in fetal deaths, skeletal malformations

**Ingestion**: Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths,

skeletal malformations

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

Notes to Physician : Treat symptomatically. Contact poison treatment specialist

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. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

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

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

Hazardous thermal decomposition products

Decomposition products may include the following materials: carbon dioxide, carbon monoxide

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.

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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.

For Emergency responders

: 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".

**Environmental** precautions

: 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 or air).

#### Methods and materials for containment and 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. 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 non-combustible, 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

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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 hygiene

Eating, drinking and smoking should be prohibited in areas where this 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. Store locked up. 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	
fluazifop-P-butyl (ISO)	None.	

## Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

## **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. Contaminated work clothing should not be allowed out

of the workplace. 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: safety glasses with side-shields.

#### **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 [emulsion]Color: Dark brownOdor: CharacteristicOdor threshold: Not available.

**pH** : 5.4

Melting point : Not available.
Boiling point : Not available.
Flash point : Not available.
Evaporation rate : Not available.
Flammability (solid, gas) : Not available.

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

Not available. Vapor pressure Vapor density Not available. **Density** 1.025 g/cm3 Relative density Not available. **Solubility** Not available. Solubility in water Not available. Partition coefficient: n-octanol/water Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available.

Viscosity : Dynamic: Not available. 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** : Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

## Section 11. Toxicological information

#### **Information on toxicological effects**

**Acute toxicity** 

products

Product/ingredient name	Result	Species	Dose	Exposure		
ORTHO GROUNDCLEAR W	ORTHO GROUNDCLEAR WEED & GRASS B-GON PATIO & LANDSCAPE WEED AND GRASS KILLER					
CONCENTRATE						
	LD50 Oral	Rat	> 5,000 mg/kg	-		
	LC50 Inhalation	Rat	> 5 mg/l	4 h		
	LC50 Dermal	Rat	> 5,000 mg/kg	-		

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ORTHO GROUNDCLEAR WEED &	Eyes - Redness of the	Rabbit	1.0		-
GRASS B-GON PATIO &	conjunctivae				
LANDSCAPE WEED AND GRASS					
KILLER CONCENTRATE					
ORTHO GROUNDCLEAR WEED &	Skin - Erythema/Eschar	Rabbit	1.0		-
GRASS B-GON PATIO &	-				
LANDSCAPE WEED AND GRASS					
KILLER CONCENTRATE					

Conclusion/Summary

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

Sensitization

Product/ingredient name	Route of exposure	Species	Result
ORTHO GROUNDCLEAR WEED & GRASS B-GON PATIO	Skin	Guinea pig	Sensitizing
& LANDSCAPE WEED AND GRASS KILLER			
CONCENTRATE			

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

Not available.

exposure

Potential chronic health effects

Conclusion/Summary : Not available.

General : Causes damage to organs through prolonged or repeated exposure.

Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

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Teratogenicity : Suspected of damaging the unborn child.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

## **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	IMDG	IATA	
UN number	Not Regulated.	UN3082	UN3082	
UN proper shipping name	-	Environmentally hazardous substance, liquid, n.o.s. (Fluazifop- P-butyl; Diquat dibromide (ISO)*	Environmentally hazardous substance, liquid, n.o.s. (Fluazifop- P-butyl; Diquat dibromide (ISO)*	
Transport hazard class(es)	Not Regulated.			
Do alving group		9 9	9 9	
Packing group	-	III	III	
Environmental hazards	No.	Yes	Yes	

<sup>\*[</sup>Not regulated if under 5L]

## **Section 15. Regulatory information**

**Precautionary statements** 

Signal word : CAUTION!

**Emergency Overview** : Keep out of reach of children.

Prolonged or frequently repeated skin contact may cause allergic reactions

in some individuals.

Avoid prolonged or repeated contact with skin.

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

drinking, chewing gum, or using tobacco.

**U.S. Federal regulations** 

US. TSCA - Chemical Inventory List : United States Inventory TSCA 8(b) (Toxic Substances Control Act) : United States Inventory TSCA 8(b) All components are listed or exempted.

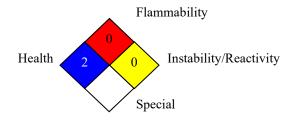
**State regulations** 

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

### **Section 16. Other information**

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



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#### **History**

**Date of issue/Date of revision** : 10/25/2023

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