

Section 1: Identification

Product identifier:

Identification as on the label/Trade name: GRASSROOTS #2 Disinfectant

Other means of identification: GR-DIS20

Relevant identification uses of the substance and uses advised against:

Recommended use: Hard surface disinfectant.

Restrictions on use: Keep away from children.

Manufacturer/Supplier identifier:

BBSpro Services Inc
204-11 Burbidge St
Coquitlam
B.C. V3K 7B2
Canada +1-604-420-4305

Emergency telephone numbers:

Emergency Contact:

BBSpro Services Inc: +1-877-420-4305 (24 hours)

CANUTEC (Transportation Emergency Only): +1-613-996-6666 (24 hours)

Section 2: Hazard Identification

Classification of the mixture:

The mixture is classified according to: Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Hazard classes/Hazard categories:

Skin Irritant (Category 2)

Eye Irritant (Category 2)

Aquatic Acute (Category 2)

Aquatic Chronic (Category 3)

Label elements:

Hazard pictograms:





Signal word: Warning.

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P264 + P265 Wash hands thoroughly after handling. Do not touch eyes.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see supplemental first aid instruction on this label).

P332 + P317 If skin irritation occurs: Get medical help.

P337 + P317 If eye irritation persists: Get medical help.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification: None.

Section 3: Composition/Information on Ingredients

Substance/Mixture: Mixture.

Ingredients:

Substance name (IUPAC/EC)	CAS-No.	Concentration % by weight	SCLs, M-Factors, Acute Toxicity Estimates (ATE)	Classification EC1272/2008
	EC-No.			
Quaternary ammonium compounds, di-C8-10- alkyldimethyl, chlorides	68424-95-3	1-5%	M=10	Acute Tox. 3 H301 Skin Corr. 1B H314 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 2H411
	270-331-5			
Quaternary ammonium compounds, benzyl-C12-16- alkyldimethyl, chlorides	68424-85-1	1-5%	M(Chronique)=1 M=10	Acute Tox. 3 H301 Skin Corr. 1B H314 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 1H410
	939-253-5			

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.



Section 4: First-Aid Measures

Description of first aid measures:

General information: If exposed or concerned get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Provide oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or Poison Control Centre immediately.

Skin Contact: Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Call a physician or Poison Control Centre immediately. For minor skin contact, avoid spreading material on unaffected skin.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Centre immediately.

Ingestion: Call a physician or Poison Control Centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms and effects, both acute and delayed:

Irritation of eyes and mucous membranes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Corrosive effects. May cause temporary blindness and severe eye damage.

Indication of any immediate medical attention and special treatment needed:

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Section 5: Fire-Fighting Measures

Extinguisher media:

Suitable extinguisher media: Water fog. Carbon dioxide (CO₂). Alcohol resistant foam. Powder.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the hazardous product: By heating and fire, harmful vapors/gases may be formed.

Special protective equipment and precautions for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.



Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Immediately evacuate non-essential personnel to safe areas. Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain aquatic environment.

Methods and materials for containment and cleaning up:

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil etc.) away from spilled material.

Large Spills: Dike the spilled material, where this is possible. Absorb spillage with non-combustible, absorbent material. Following product recovery, flush area with water. Prevent product from entering drains.

Small Spills: Clean surface thoroughly to remove residual contamination.

Section 7: Handling and Storage

Precautions for safe handling:

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Do not breathe mist or vapor. Use non-sparking tools and explosion-proof equipment. Do not get this material in contact with eyes, skin or clothing. Do not taste or swallow. Use personal protective equipment as required. Use only outside or in a well-ventilated area. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including incompatible materials:

Store in a cool, well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

Section 8: Exposure Controls / Personal Protection

Control parameters:

Occupational exposure limits: Contains no substances with occupational exposure limits.

Exposure controls:

Appropriate engineering controls: Good general ventilation should be used. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.



Individual protection measures, such as personal protective equipment:

Eye/face protection: Do not get in eyes. Wear eye/face protection to EN166. Chemical goggles are recommended. Eye wash fountain is recommended.

Skin protection:

Hand protection - wear protective chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. Observe instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Body protection - wear appropriate chemical resistant clothing. Safety shower is recommended.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.

Hygiene measures: When using, do not eat, drink or smoke. Do not get in eyes, on skin or on clothing. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

Appearance (form): Liquid.

Color: Violet.

Odor: Soapy.

Odor threshold: No data available.

pH: 6 - 8

Melting point/Freezing point: No data available.

Initial boiling point/boiling range: ~100 °C

Flash point (°C): No data available.

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Lower flammable/explosive limit: No data available.

Upper flammable/explosive limit: No data available.

Vapor pressure: No data available.

Vapor density: No data available.

Relative density: 1.03

Solubility: Soluble in all proportions in water. No data available (for other liquids).

n-Octanol/Water partition coefficient: No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: No data available.



Section 10: Stability and Reactivity

Reactivity: No specific data is available for this product.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: None expected under normal conditions of storage and use.

Conditions to avoid: Acidic conditions.

Incompatible materials: Strong oxidizing agents, reducing agents.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition should not occur.

Section 11: Toxicological Information

Information on toxicological effects:

Acute toxicity:

Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides, CAS 68424-95-3

Acute toxicity, oral: LD50 238 mg/kg bw (rat)

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

STOT-single exposure: No data available.

STOT-repeated exposure: No data available.

Aspiration hazard: No data available.

Section 12: Ecological Information

Toxicity: Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides CAS 68424-85-1

Short-term toxicity to fish: LC50 (4 days) 515 - 1 700 µg/L

Long-term toxicity to fish: LC50 (28 days) 94 µg/L

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

Section 13: Disposal Considerations

Method of disposal: Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging: Empty containers or liners may retain some product residues. They should be taken to an approved waste handling site for recycling or disposal.

Section 14: Transport Information

UN number: Not regulated under Canadian TDG regulations.

UN proper shipping name: Not regulated under Canadian TDG regulations.

Hazard class: Not regulated under Canadian TDG regulations.

Packing group: Not regulated under Canadian TDG regulations.

Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

Special precautions for user: Refer to Sections 6 – 8.

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation for the mixture:

WHMIS Classification: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Canadian DSL/NDSL Inventory Status:

DSL: Yes

NDSL: No

Other Canadian Regulations: Not applicable.

Chemical Safety Assessment carried out: No.

Section 16: Other Information

Date of the latest revision of the SDS: 15-Feb-2022

Indication of changes: GHS aligned.

Relevant classification and H statements (number and full text):

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H401 Toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

NFPA rating:



Health: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.



**Safety Data Sheet for
GRASSROOTS #2 Disinfectant**

According to WHMIS 2015

First Issue Date: 05-July-2021

Revision Date: 15-Feb-2022

Revision: 1

Fire: 0 - Materials that will not burn. This includes any material that will not burn in air when exposed to a temperature of 1500 degrees F (815.5 degrees C) for a period of 5 min.

Reactivity: 0 - Materials that in themselves are normally stable, even under fire conditions.

Further information: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers: Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

References:

ECHA (European Chemicals Agency): Summary of CLP and Guidance on Safe Use Dossiers.

Canadian Centre for Occupational Health and Safety: WHMIS 1988 - Material Safety Data Sheets (MSDSs)

GESTIS International Limit Values

Supplier SDSs