



Material Safety Data Sheet

Green-Cide 25G

1. Product and Company Identification

Product Name Green-Cide 25G

Chemical Family Aldehydes

Company Mailing Address Special Products
A Division of Champion Technologies, Inc.
P.O. Box 27727
Houston, TX 77227
USA

Company Physical Address Special Products
A Division of Champion Technologies, Inc.
3355 West Alabama St. Suite 400
Houston, TX 77098
USA

Emergency Telephone Numbers 1-281-431-2561 (Champion)
1-800-424-9300 (Chemtrec)
1-703-527-3887 (Chemtrec - International)

2. Composition/Information on Ingredient

Hazardous ingredients

Name	CAS No.	Weight (%)
Glutaraldehyde	111-30-8	25.0

3. Hazards Identification

Possible Hazards (Summary) Corrosive-Causes irreversible eye damage. Causes skin burns. Harmful if swallowed or absorbed through the skin. Harmful if inhaled. May cause skin sensitization. Do not get in eyes, on skin, or on clothing. AVOID BREATHING VAPORS. Do not swallow. Wear goggles, protective clothing, and rubber gloves. Wash thoroughly with soap and water after handling. Remove and launder contaminated clothing before reuse.

Primary Routes of Entry Inhalation, Absorption, Ingestion

Carcinogenicity

NTP Not determined

IARC Monograph Not determined

OSHA Regulated No

4. First Aid Measures

First Aid Procedures (Summary)	NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.
Ingestion	DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
Skin	Immediately wash with plenty of soap and water. Get medical attention.
Eye	Immediately flush with running water for at least 15 minutes. Get immediate medical attention.
Comments	IF CONDITIONS PERSIST, SEEK MEDICAL ATTENTION.

5. Fire Fighting Measures

Flash point > 200 °F (> 93 °C)	Method PMCC	Remarks Based on NA
Lower explosion limit Not determined	Upper explosion limit Not determined	Auto ignition temperature Not determined
Hazards during fire-fighting	Non-flammable (aqueous solution): After water evaporates, remaining material will burn.	
Extinguishing Media	Use alcohol-type or all-purpose-type foam, applied by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires.	

6. Accidental Release Measures

Methods for cleaning or taking up	Wear suitable protective equipment. Toxic to fish; avoid discharge to natural waters. Very low concentrations (10ppm or less) can be degraded in a biological treatment system. Thus, small spills can be flushed with large quantities of water. Large quantities or 'slugs' can be harmful to the treatment system. Thus, large spills should be collected for disposal. It may also be possible to decontaminate spilled material by careful application of aqueous sodium hydroxide or dibasic ammonium phosphate solution. Depending on conditions, considerable heat and fumes can be liberated by the decontamination reaction.
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Refer to section 8 (Exposure Controls/Personal Protection) for information regarding personal protective equipment.

Refer to section 15 (Regulatory Information) for information regarding the RQ (Reportable Quantity).

7. Handling and Storage

Advice on safe handling	No data available.
Storage requirements	No data available.

8. Exposure Controls/Personal Protection

Hazardous ingredients	OSHA PEL	OSHA STEL	ACGIH STEL	ACGIH TLV
Glutaraldehyde	Not determined	Not determined	Not determined	0.05 ppm

General protective measures	Use SCBA in high vapor concentrations.
Advice on system design	Local and general exhaust recommended to control airborne levels.
Respiratory protection	Use a NIOSH-approved respirator if exposure limits are exceeded.
Hand protection	Non-slip, chemically resistant gloves
Eye protection	Use chemical safety goggles or safety glasses. A face shield may be necessary.
Body protection	Use of impervious protective clothing is recommended. An emergency eye wash station and safety shower should be located in immediate work area.
Industrial hygiene	Clean up spills promptly. Wash contaminated clothing.

9. Physical and Chemical Properties

Form	LIQUID	
Color	YELLOW TO COLORLESS	
Odor	PUNGENT ALDEHYDE ODOR	
Boiling Point	Not determined	
Pour point	14 °F (-10 °C)	
Flash point	> 200 °F (> 93 °C) PMCC	
Evaporation rate (Butyl acetate = 1)	Not determined	
pH	3.4 - 4.5	
Solubility (qualitative)	Water	
Relative vapor density (Air = 1)	Not determined	
Specific Gravity (H2O = 1)	1.0515 - 1.0815	Temperature 60 °F (16 °C)

Vapor pressure 16.4 mmHg

Viscosity, dynamic 4 - 6 cPs

10. Stability and Reactivity

Chemical Stability Stable

Conditions to avoid Flames, High temperatures, Evaporation of water

Substances to avoid Alkalies catalyze an aldol type condensation

Decomposition products Oxides of carbon

Hazardous Polymerization Will not occur

11. Toxicological Information

Acute oral toxicity No data available.

Assessment carcinogenicity No data available.

Assessment mutagenicity No data available.

12. Ecological Information

Biodegradation No data available.

Acute and prolonged toxicity to fish No data available.

Acute toxicity to aquatic invertebrates No data available.

Toxicity to aquatic plants No data available.

13. Disposal Considerations

Advice on disposal Dispose of in accordance with local regulations.

14. Transport Information

U.S. Department of Transportation (DOT)

DOT

Hazard symbol None

Proper Shipping Name Not Regulated

Canadian Transport of Dangerous Goods (TDG)

TDG

Hazard symbol None

Proper Shipping Name Not Regulated

International Air Transport Association (IATA)**IATA**

Hazard symbol	None
Proper Shipping Name	Not Regulated

International Maritime Dangerous Goods (IMDG)**IMDG**

Hazard symbol	None
Proper Shipping Name	NOT REGULATED

15. Regulatory Information

SARA hazard category 1 - Acute, 2 - Chronic

U.S. Toxic Substance Control Act (TSCA) Inventory

All components of this product are listed on the TSCA Inventory.

Canadian Domestic Substances List (DSL)

All components of this product are on the DSL.

CERCLA Reportable Quantity Not available

16. Other Information**HMIS rating**

Health	3
Flammability	0
Physical Hazard	0

NFPA rating

Health	3
Flammability	0
Instability	0

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Information is based on data believed by Champion Technologies, Inc. to be accurate, but no warranty, expressed or implied is made.