

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME: KleenGrow

OTHER MEANS OF IDENTIFICATION: DDAC, Quaternary Ammonium

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

PRODUCT USE STATEMENT: Disinfectant

USES ADVISED AGAINST: Use only as stated on label.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Pace 49 Inc.

1597 Derwent Way, Delta B.C., V3M 6K8 CANADA

Phone (800) 799-6211 | www.pace49.com

EMERGENCY TELEPHONE NUMBER

24 Hour Emergency Phone Number (800) 228-5635 x059

2. HAZARDS IDENTIFICATION

CLASSIFICATION

Acute toxicity - Oral	Category 5
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

LABEL ELEMENTS

EMERGENCY OVERVIEW

DANGER

Hazard statements: May be harmful if swallowed
Causes severe skin burns and eye damage



Precautionary Statements - Prevention

- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools
- Take precautionary measures against static discharge

Precautionary Statements - Response

- Specific Treatment (See Section 4 on the SDS)
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
 - IN CASE OF FIRE: Use CO₂, dry chemical, or foam for extinction.

Precautionary Statements - Storage

- Store locked up
- Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

- Dispose of contents/container to an approved waste disposal plant

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

OTHER INFORMATION

Unknown Acute Toxicity

0.28% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %	Trade Secret
2-Propanol	67-63-0	7-13	*
Didecyl Dimethyl Ammonium Chloride	7173-51-5	5-10	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

FIRST AID MEASURES

GENERAL ADVICE: If symptoms persist, call a physician.

SKIN CONTACT: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

INHALATION: Remove to fresh air. If symptoms persist, call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. Move to fresh air in case of accidental inhalation of vapors or decomposition products.

INGESTION: Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

SELF-PROTECTION OF THE FIRST AIDER: Use personal protective equipment as required.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

SYMPTOMS: Any additional important symptoms and effects are described in Section 11: Toxicology Information.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

NOTE TO PHYSICIANS: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use. Dry chemical. Carbon dioxide (CO₂). Water spray (fog). Alcohol resistant foam.

UNSUITABLE EXTINGUISHING MEDIA: Do not use a solid water stream as it may scatter and spread fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

PERSONAL PRECAUTIONS: Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges.

ENVIRONMENTAL PRECAUTIONS

ENVIRONMENTAL PRECAUTIONS: Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

METHODS FOR CONTAINMENT: Prevent further leakage or spillage if safe to do so.

METHODS FOR CLEANING UP: Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains. Dam up. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

ADVICE ON SAFE HANDLING: Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

STORAGE CONDITIONS: Keep container tightly closed. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from heat.

INCOMPATIBLE MATERIALS

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Propanol 67-63-0	STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
	TWA: 200 ppm	(vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health

OTHER INFORMATION: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir, 1992).

APPROPRIATE ENGINEERING CONTROLS

ENGINEERING CONTROLS: Showers, Eyewash stations & Ventilation systems

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: Tight sealing safety goggles. Face protection shield.

SKIN AND BODY PROTECTION: No special technical protective measures are necessary.

RESPIRATORY PROTECTION: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

GENERAL HYGIENE: When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: Clear

COLOR: Colorless

ODOR: Slight

ODOR THRESHOLD: No Information available

PROPERTY	VALUES
pH	6.5 - 8.5
Specific Gravity	0.98
Viscosity	Water Thin
Melting point	No Information available
Freezing point	No Information available
Flash point	39 °C 102 °F
Boiling point / boiling range	No Information available

Evaporation Rate	Same as water
Flammability limits (solid,gas)	
Upper flammability limit	No Information available
Lower flammability limit	No Information available
Vapor pressure	No Information available
Vapor density	No Information available
Water solubility	Soluble in water
Partition coefficient	No Information available
Autoignition temperature	No Information available
Decomposition temperature	No Information available

OTHER INFORMATION

Density Lbs/Gal	7.9
VOC Content (%)	10.94 % VOC

10. STABILITY AND REACTIVITY

REACTIVITY: No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effects to metals are not anticipated.

CHEMICAL STABILITY: Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: None under normal processing.

CONDITIONS TO AVOID: Heat, flames, and sparks.

INCOMPATIBLE MATERIALS: None known based on information supplied.

HAZARDOUS DECOMPOSITION PRODUCTS: None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

INHALATION: Causes burns.

EYE CONTACT: Corrosive to the eyes and may cause severe damage including blindness.

SKIN CONTACT: The product causes burns of eyes, skin and mucous membranes.

INGESTION: Causes burns. May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Propanol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m3 (Rat) 4 h
Ethanol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h

INFORMATION ON TOXICOLOGICAL EFFECTS

SYMPTOMS: No Information available.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

CORROSIVITY: Causes burns. Extremely corrosive and destructive to tissue. Risk of serious damage to eyes.

SENSITIZATION: No Information available.

GERM CELL MUTAGENICITY: No Information available.

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Propanol 67-63-0	-	Group 3	-	X

ACGIH (American Conference of Governmental Industrial Hygienists), A3 - Animal Carcinogen, IARC (International Agency for Research on Cancer), Group 1 - Carcinogenic to Humans, Not classifiable as a human carcinogen, NTP (National Toxicology Program), Known - Known Carcinogen, OSHA (Occupational Safety and Health Administration of the US Department of Labor), X - Present

REPRODUCTIVE TOXICITY: No Information available.

STOT - SINGLE EXPOSURE: No Information available.

STOT - REPEATED EXPOSURE: No Information available.

CHRONIC TOXICITY: Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. Avoid repeated exposure.

TARGET ORGAN EFFECTS: EYES, Respiratory system, Skin.

ASPIRATION HAZARD: No Information available.

NUMERICAL MEASURES OF TOXICITY - PRODUCT INFORMATION

UNKNOWN ACUTE TOXICITY: 0.28% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

ECOTOXICITY

7.78% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Propanol 67-63-0	1000: 96 h Desmodosmus subspicatus mg/L EC50 1000: 72 h Desmodosmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 1130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50	13299: 48 h Daphnia magna mg/L EC50

PERSISTENCE AND DEGRADABILITY: No Information available.

BIOACCUMULATION: No Information available.

Chemical Name	Partition coefficient
2-Propanol 67-63-0	0.05

OTHER ADVERSE EFFECTS: This pesticide is toxic to fish and aquatic invertebrates.

Do not discharge effluent containing this product into the environment without control.

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

DISPOSAL OF WASTES: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes can not be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Rinse thoroughly three times (Triple rinse) in accordance to EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing, or other means to prevent unauthorized use of used containers.

CONTAMINATED PACKAGING: Non-refillable container. Do not reuse container.

US EPA WASTE NUMBER: D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
2-Propanol 67-63-0	Toxic Ignitable

14. TRANSPORT INFORMATION

Note: The basic description below is specific to the container size. This information is provided for a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

LAND TRANSPORT: (USDOT)

4x1 GALLON CASE: LTD QTY (LTDY)



Hazard Class: 8
Packing Group: III
ID Number: UN 1903
Hazard Label: 8
Proper Shipping Name: Disinfectant, Liquid, Corrosive, NOS
(Contains Isopropanol and Quaternary Ammonium compounds)

AIR TRANSPORT: (IATA/ICAO)

2 x 0.5 L Per Package: LTD QTY (LTDY)



For packages greater than 2 x 0.5 L refer to IATA shipping guidelines and above hazard class information.

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

TSCA: Complies DSL/NDSL: Complies

TSCA: United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL: Canadian Domestic Substances List/ Non-Domestic Substances List

US FEDERAL REGULATIONS

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
2-Propanol - 67-63-0	1.0

SARA 311/312 HAZARD CATEGORIES

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Reactive Hazard	No
Sudden release of pressure hazard	No

CWA (CLEAN WATER ACT)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

CALIFORNIA PROPOSITION 65

This product has been evaluated and does not require warning labeling under California Proposition 65.

Chemical Name	California Proposition 65
Ethanol - 64-17-5	Carcinogen Developmental

U.S. STATE RIGHT-TO-KNOW REGULATIONS

Chemical Name	NJ	MA	PA
2-Propanol - 67-63-0	X	X	X
Ethanol - 64-17-5	X	X	X

U.S. EPA LABEL INFORMATION

EPA PESTICIDE REGISTRATION NUMBER: 81820-2

EPA STATEMENT: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA PESTICIDE LABEL

DANGER Corrosive. Causes irreversible eye damage. Causes skin burns. Do not get in eyes, on skin or on clothing. Harmful if swallowed or absorbed through the skin. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and rubber gloves. Wash thoroughly, Remove and wash contaminated clothing.

ADDITIONAL INFORMATION: No Information available.

16. OTHER INFORMATION

HMIS

Health hazards	Flammability	Physical hazards	Personal protection
2	0	0	B

PREPARED BY: Regulatory Department, Manufacturing and Shipping Facility

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.