

KLEENGROW



1. Product & Company Identification

Product Name: KLEENGROW
Other means of identification: KLEENGR

Recommended use of the chemical and restrictions on use

Recommended Use: Greenhouse sanitizer, fungistat, deodorizer, kills bacteria, controls mildew

Restrictions on Use: For Food Plant, Industrial and Institutional use only

Safety Data Sheet Supplier

Pace Solutions Corp.
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Email: info@pacesolutions.com

EMERGENCY TELEPHONE NUMBER

24 Hour Emergency Phone Number:
Transport Emergencies: Canutec 613-996-6666
Emergency Response Services: Chemtrec 800-424-9300

2. Hazards Identification

This chemical is a pesticide product registered by Health Canada Pest Management Regulatory Agency (PMRA), Registration Number 13148.



Classification	Hazard Category
Flammable liquid	Category 3
Skin corrosion/ irritation	Category 1
Eye damage/ irritation	Category 1

Signal Word:

Danger

Hazard statements:

- H226 Flammable liquid and vapour.
- H314 Causes severe skin burns and eye damage.

Precautionary Statements - Prevention

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P260 Do not breathe dusts or mists.
- P264 Wash hands and any affected area thoroughly after handling.

Precautionary Statements - Response

- P303 + P361 + P354 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Rinse affected area with water or shower.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P363 Wash contaminated clothing before reuse.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

- P301 + P302 + P304 + P316 IF SWALLOWED, ON SKIN OR INHALED: Get emergency medical help immediately.
- P305 + P354 + P338 + P317 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.

Precautionary Statements - Storage

- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

Precautionary Statements - Disposal

- P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/Information on Ingredients

Chemical Name	CAS No.	Weight %
Isopropyl alcohol	67-63-0	7-13
Didecyl dimethyl ammonium chloride	7173-51-5	5-10
Ethanol	64-17-5	1-5

4. 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.

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.

UNUSUAL FIRE/EXPLOSION HAZARDS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, oxides of carbon, ammonia.

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.

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 & Storage

Precautions for safe handling

Use good industrial hygiene. Do not get in eyes, on skin or on clothing. Avoid breathing mist/ vapour. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Keep out of reach of children. Store at temperatures below 30 °C and above 5 °C.

8. Exposure Controls/Personal Protection

Isopropyl Alcohol CAS# 67-63-0

Type of Listing	Exposure Limit
British Columbia	TWA 200 ppm STEL 400 ppm
Alberta	
Manitoba	
Saskatchewan	8 hr 200 ppm 15 min 400 ppm
Ontario	TWA 200 ppm STEL 400 ppm
ACGIH	TWA 200 ppm STEL 400 ppm

Ethanol CAS# 67-17-5

Type of Listing	Exposure Limit
British Columbia	STEL 1000 ppm
Alberta	
Manitoba	
Saskatchewan	8 hr 1000 ppm 15 min 1250 ppm
Ontario	STEL 1000 ppm
ACGIH	TWA 200 ppm STEL 400 ppm

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: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

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 & Chemical Properties

Properties	Values
Physical State	Liquid
Colour	Clear, colourless
Odour	Odourless. No added fragrance.
Odour threshold	No information available
pH	6.5-8.5
Specific gravity	0.97 @ 20 °C
Viscosity	Thin like water
Melting point/ freezing point	No information available
Flash point	39 °C Closed Cup
Boiling point / boiling range	No information available
Evaporation rate	Same as water
Flammability	Flammable
Upper flammability limit in air	No information available
Lower flammability limit in air	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
VOC content (%)	10.94

10. Stability & Reactivity

REACTIVITY: No data available.

STABILITY: Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: None under normal processing.

CONDITIONS TO AVOID: Temperatures above 30 °C and below 5 °C.

INCOMPATIBLE MATERIALS: Oxidizing agents, strong acids, aldehydes, halogens, halogenated organics, anionic surfactants.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, oxides of carbon, ammonia.

11. Toxicological Information

Acute Toxicity Estimate (ATE)	Oral LD ₅₀	Dermal LD ₅₀	Inhalation (Vapours) LC ₅₀
	>2600 mg/kg 0% of the mixture consists of ingredient(s) of unknown acute oral toxicity.	2200 mg/kg 0% of the mixture consists of ingredient(s) of unknown acute dermal toxicity.	No data

Information on likely routes of exposure

INHALATION: Might cause serious irritation to respiratory track.

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 cause irritation and nausea.

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: Data available indicates no potential risk.

GERM CELL MUTAGENICITY: Data available indicates no potential risk.

CARCINOGENICITY: Ethanol (CAS# 64-17-5) is carcinogenic in long-term studies only when consumed as alcoholic beverage.

REPRODUCTIVE TOXICITY: Ethanol (CAS# 64-17-5) is a reproductive toxin in long-term studies only when consumed as alcoholic beverage.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE: Data available indicates no potential risk.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: Data available indicates no potential risk.

ASPIRATION HAZARD: Data available indicates no potential risk.

12. Ecological Information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

13. Disposal Considerations

Waste treatment methods

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law.

CONTAINER DISPOSAL - Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available or puncture and dispose of in a sanitary landfill.

(For containers 5 gallons or less):

Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after flow begins to drip. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

(For containers greater than 5 gallons):

Triple rinse container promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

14. Transport Information

Canadian Transportation of Dangerous Goods:

UN1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (contains quaternary ammonium compounds), Class 8, Packaging Group III

ENVIRONMENT HAZARDS: This product is considered as a marine pollutant.

ADDITIONAL INFORMATION: Explosive Limit and Limited Quantity Index: 5 L.

Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index: 5 L

Air transport (International Air Transport Association - IATA/ International Civil Aviation Organization - ICAO)

2 x 0.5 L per package: LTD. QTY. (Limited Quantity)
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
NPRI: None of the components are listed.

16. Other Information

Acronym List

ACGIH	American Conference of Governmental Industrial Hygienists
C	Ceiling Limit - The maximum exposure limit
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
DSL/NDSL	Domestic Substances List/ Non-domestic Substance List
EC50	Half maximal effective concentration
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
LC50	Lethal concentration, 50%
LD50	Lethal dose, 50%
NIOSH	The National Institute for Occupational Safety and Health
N.O.S.	Not Otherwise Specified
NPRI	National Pollutant Release Inventory
NTP	National Toxicology Program
OHSR	Occupational Health & Safety Regulation
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PNOC	Particulates not otherwise classified
PMCC	Pensky-Martens Closed Cup
POW	Partition Coefficient Octanol: Water
REL	Recommended Exposure Limit
SDS	Safety Data Sheets
STEL	Short-Term Exposure Limit
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act Chemical Substance
TWA	Time-Weighted Average

PREPARED BY: Regulatory Department

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.