

KLEENGROW

SECTION 1: IDENTIFICATION			
Product Trade Name:	KLEENGROW		
Product Code:	KLEENGR		
Recommended Use:	Greenhouse sanitizer, fungistat, deodorizer, kills bacteria, controls mildew		
Restrictions on Use:	For Food processing, Industrial and Institutional use only For use in non-potable water only		
Supplier Name:	Pace Solutions Corporation		
Supplier Address:	1597 Derwent Way, Delta, B.C. Canada V3M 6K8		
Supplier Phone Number:	604-520-6211 800-799-6211 (toll free)		
Email Address of Competent Person Responsible for the SDS:	info@pacesolutions.com		
Emergency Phone Number/ 24-Hour Number:	For Transportation Emergencies: Canutec 613-996-6666 Emergency Response Services: Chemtrec 800-424-9300		

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SECTION 2: HAZARD IDENTIFICATION				
Physical Hazards:	NONE			
Health Hazards:	SKIN CORROSION/ IRRITAITON – Category 1			
	EYE DAMAGE/ IRRITATION – Category 1			
Symbol:				
Signal word:	DANGER			
Hazard Statement:	H314 Causes severe skin burns and eye damage.			
	H318 Causes serious eye damage.			
PRECAUTIONARY STATEMENTS				
Prevention:	P260 Do not breath fume/ gas/ mist/ vapours/ spray.			
	P264 Wash hands and any affected area thoroughly after handling.			
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.			

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	SECTION 2: HAZARD IDENTIFICATION			
Responses:	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.			
	P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water or shower.			
	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.			
	P321 Specific treatment (see supplemental first aid information on this label).			
	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.			
Storage:	P405 Store locked up.			
Disposal:	P501 Dispose of contents/ container to an approved waste disposal plant.			

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Ingredient	Approx. Wt.%	CAS Number	
Isopropyl Alcohol	7-13	67-63-0	
Didecyldimethyl Ammonium Chloride	5-10	7173-51-5	
Ethanol	1-5	64-17-5	

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SECTION 4: FIRST-AID MEASURES				
General Information:	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.			
Inhalation:	Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention.			
Skin Contact:	Rinse skin. If irritation persists, obtain medical attention.			
Eye Contact:	Immediately flush with warm running water for at least 15 minutes, holding eyelids open during flushing. Remove contact lenses, if present and easy to do. If irritation persists, repeat flushing and obtain medical attention immediately.			
Ingestion:	Do not induce vomiting. If the victim is fully conscious, give plenty of clean water to drink to dilute product. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing. Call a Physician.			

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SECTION 4: FIRST-AID MEASURES			
Self-Protection of the First Aider:	Remove all sources of ignition. Ensure that first aid personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.		
Most Important Symptoms/ Effects, Acute and Delayed:	Ingestion: Burning pain and severe digestive track damage. Inhalation: Low toxicity. Excessive exposure may cause severe irritation to the upper respiratory tract. Eyes and skin: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.		
If irritation occurs or persists, get medical attention.			

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SECTION 5: FIRE-FIGHTING MEASURES			
Suitable Extinguishing Media: Water fog, alcohol foam, or dry chemical.			
Unsuitable Extinguishing Media:	None known.		
Flammability:	This material has a low flash point but not considered as flammable as it is self-extinguishing.		
Flash Point:	37.2 °C (Tag Closed Cup)		
Special Firefighting Procedures:	Directing a solid stream of water into a hot burning liquid can cause frothing and spread the fire. Wear NIOSH/MSHA approved, self-contained breathing apparatus for firefighting situation. Use water spray to cool all nearby fire exposed surfaces.		
Unusual Fire/ Explosion Hazards:	None known.		
Hazardous Decomposition Products:	Oxides of carbon and nitrogen, hydrochloric acid and other unidentifiable organic substances.		

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SECTION 6: ACCIDENTAL RELEASE MEASURES			
Environmental Protection Precautions:	Do not release to the environment or water source.		
Steps to be Taken in Case Material is Released or Spilled:	Wear protective equipment. Absorb into inert mineral absorbent ("floor dry"). Wash Down floor. Flush area with water if appropriate. Keep material away from sewers. Reuse if possible, otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.		

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SECTION 7: HANDLING AND STORAGE			
Precautions to be Taken in Handling and Storage:	Use good industrial hygiene. Do not get in eyes, on skin or on clothing. Avoid breathing dust. 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. Do not store in metal containers.		

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION					
	EXPOSURE LIMITS:				
OSHA (P	EL): Not ava	ailable	e	ACGIH TLV: Not available	
			Etha	nol	
CAS No.:				64-17-5	
Regulation:		NIC	SH	OSHA	OHSR
Type of Listing:	REL-TW	Α	IDLH	PEL-TWA	TLV-STEL C
Value:	1900 mg/	′m³	3300 ppm	1000 mg/m ³	1000 ppm
INDIV	IDUAL PROT	ECTIO	ON MEASURES /	PERSONAL PROTECTIVE EQU	JIPMENT
Appropriate Engineering Controls:		Good general ventilation.			
Skin Protection:		Hand Protection: Non-permeable gloves (rubber, nitrile) recommended. Other Skin Protection: Not required under normal use condition. Personal protective equipment for the body should be selected based on the task being performed and the risks involved.			
Eye and Face Protect	tion:	Safety glasses or chemical goggles. Face shield if splashing hazard exists.			
Respiratory Protection	on:	Respirator should be selected based on the task being performed and the risks involved.			
Other Protective Equ	uipment:	Eye wash, safety shower and full protective clothing recommended in the immediate work area.			

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES				
Appearance:	Clear, colourless liquid			
Odour:	Odourless. No added fragrance.			
Odour threshold:	Not available.			
pH:	6.0 – 7.0			
Melting point/Freezing point:	Not available.			

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Initial boiling point and boiling range:	Not available.		
Flash Point:	37.2 °C (Tag Closed Cup)		
Evaporation Rate (Water=1):	<1		
Flammability:	This material has a low flash point but not considered as flammable as it is self-extinguishing.		
Upper/Lower flammability or explosive limits:	(for Isopropyl Alcohol) Upper 12.7. Lower 2		
Vapour pressure:	Not available.		
Vapour density:	Not available.		
Relative density/Specific gravity (Water = 1):	0.97 @ 20 °C		
Solubility(ies):	Soluble in water.		
Partition coefficient: n-octanol/water:	Not available.		
Auto-ignition temperature:	(for Isopropyl Alcohol) 399 °C		
Decomposition temperature:	Not available.		
Viscosity:	Thin like water.		
VOCs%:	Not available.		

SECTION 10: STABILITY AND REACTIVITY	
Reactivity:	Not available.
Chemical stability:	Stable under normal storage conditions.
Possibility of hazardous reactions:	Not available.
Conditions to avoid:	Temperatures above 30°C and below 5°C. Heat, hot surfaces, sparks, open flames and other ignition sources.
Incompatibility:	Strong oxidizers and reducing agents. Enzymes, biological organism.
Hazardous Decomposition Products:	Oxides of carbon and nitrogen, hydrochloric acid and other unidentifiable organic substances.

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SECTION 11: TOXICOLOGICAL INFORMATION		
Likely routes of exposure:	Skin contact, skin absorption, eye contact, inhalation, ingestion.	
Symptoms:	SKIN CONTACT: Redness, blisters.	
	EYE CONTACT: Serious irritation, tearing, vision impairment.	
	INHALATION: Mist may be irritant to respiratory track.	

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SECTION 11: TOXICOLOGICAL INFORMATION	
	INGESTION: May cause irritation and nausea.
Acute Toxicity Estimates:	LD ₅₀ Oral ATE > 3000 mg/kg
	0% of the mixture consists of ingredient(s) of unknown acute
	oral toxicity.
	LD ₅₀ Dermal ATE > 2000 mg/kg
	0% of the mixture consists of ingredient(s) of unknown acute
	dermal toxicity.
	LD ₅₀ Inhalation ATE: Not available
	>50% of the mixture consists of ingredient(s) of unknown
	acute inhalation toxicity.
Skin Sensitization:	Data available on components indicates no potential skin
	sensitization.
Germinal Cell Mutagenicity:	Data available on components indicates no potential
	germinal cell mutagenicity.
Reproductive Toxicity:	Data available on components indicates no potential
	reproductive toxicity.
Carcinogenicity:	Data available on components indicates no potential
	carcinogenicity.
Aspiration Hazard:	Data available on components indicates no potential
	aspiration hazard.
STOT-SE:	Data available on components indicates no potential STOT-
	SE hazard.
STOT-RE:	Data available on components indicates no potential STOT-
	RE hazard.

SECTION 12: ECOLOGICAL INFORMATION	
Toxicity to Fresh Water Algae:	Acute toxic.
Toxicity to Fish Species:	Acute toxic.
Toxicity to Aquatic Invertebrates:	Acute toxic
Persistence and degradability:	Expected to be readily biodegradable.
Bioaccumulation:	Not available.
Inherently Toxic to the Environment:	Not available.

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SECTION 13: DISPOSAL CONSIDERATIONS	
Recommended Waste Disposal Methods:	There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

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SECTION 13: DISPOSAL CONSIDERATIONS		
haza mixt CON reus or po (For Tripl as for equi begi Shak equi dispo Repe (For Tripl as for equi Repl roll i revo and into	ricide Disposal - Pesticide wastes are acutely ridous. Improper disposal of excess pesticide, spray ure, or rinsate is a violation of Federal Law. TAINER DISPOSAL — Non-refillable container. Do not e or refill this container. Offer for recycling, if available uncture and dispose of in a sanitary landfill. containers 5 gallons or less): e rinse container promptly after emptying. Triple rinse ollows: Empty the remaining contents into application pment or a mix tank and drain for 10 seconds after flow inside to drip. Fill container 1/4 full with water and recap. The for 10 seconds. Pour rinsate into application pment or a mix tank or store rinsate for later use or insal. Drain for 10 seconds after the flow begins to drip. The eat this procedure two more times. containers greater than 5 gallons): e rinse container promptly after emptying. Triple rinse ollows: Empty remaining contents into application pment or a mix tank. Fill the container 1/4 full with water. ace and tighten closures. Tip container on its side and to back and forth, ensuring at least one complete lution, for 30 seconds. Stand the container on its end tip it back and forth several times. Empty the rinsate application equipment or a mix tank or store rinsate for the use or disposal. Repeat this procedure two more so the several times.	

SECTION 14: TRANSPORT INFORMATION	
Canadian TDG UN Number:	1903
UN Proper Shipping Name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (contains quaternary ammonium compounds)
Transport Hazard Class(es):	8
Packing Group:	III
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.
Environmental Hazards:	Marine pollutant.
Special Precautions for User:	Not available.
Additional Information:	Explosive Limit and Limited Quantity Index: 5 Litres Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index: 5 Litres

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SECTION 15: REGULATORY INFORMATION			
Inventory Ingeredients	DSL/ NDSL	NPRI	TSCA
Isopropyl Alcohol (CAS# 67-63-0)	Listed on the DSL	Listed	Listed, Active
Didecyldimethyl Ammonium Chloride (CAS# 7173-51-5)	Listed on the DSL	Not listed	Listed, Active
Ethanol (CAS# 64-17-5)	Listed on the DSL	Listed	Listed, Active

This chemical is a pest control product registered [or regulated] by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:



DANGER. POISON
CORROSIVE TO EYES, SKIN IRRITANT

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN

Fatal or poisonous if swallowed. May be harmful if absorbed through the skin. May be fatal if inhaled. Avoid inhaling sprays. Corrosive to the eye. Severely irritating to the skin. Do not get in eyes, on skin or on clothing. Protect eyes and skin when handling. When handling this concentrate wear goggles or a face shield, chemical-resistant gloves, long pants, a long-sleeved shirt, and shoes plus socks. For use in greenhouses, workers shall wear chemical resistant coveralls with elastic face hood, designed to accommodate full-face respirator, chemical resistant gloves, rubber boots and a full-face respirator with either a NIOSH approved organic-vapour-removing cartridge with prefilter approved for pesticides or a NIOSH approved canister, approved for pesticides during mixing, loading, application cleanup and repair. Do not allow greenhouse workers to enter area during treatment. Ventilate prior to entry. Do not re-enter treated areas for 12 hours.

TOXICOLOGICAL INFORMATION: Note to physician: No specific antidote or remedial measure exists, treat symptomatically. Probable mucosal damage following ingestion may contraindicate gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

ENVIRONMENTAL HAZARDS: This product is toxic to fish and other aquatic organisms. It is not to be used in circumstances that would cause or allow it to enter lakes, streams, ponds, estuaries, oceans or other waters in contravention of federal or provincial regulatory requirements. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. The requirements of applicable laws should be determined before using the product.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes, then continue rinsing eye. Remove contact lenses, if present after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for treatment advice. **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison

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SECTION 15: REGULATORY INFORMATION

control center or doctor for treatment advice. **IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. **IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control centre or doctor for further advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN: Probably mucosal damage may contraindicate the use of gastric lavage.

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SECTION 16: OTHER INFORMATION		
	ACRONYM LIST	
ACGIH	American Conference of Governmental Industrial Hygienists	
ATE	Acute Toxicity Estimate	
С	Ceiling Limit – The maximum exposure limit	
CAS	Chemical Abstracts Service	
CFR	Code of Federal Regulations	
DSL/NDSL	Domestic Substances List/ Non-domestic Substance List	
EC ₅₀	Half maximal effective concentration	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
ICAO	International Civil Aviation Organization	
IDLH	Immediately Dangerous to Life or Health	
iT _E	Inherently Toxic to the Environment	
LC ₅₀	Lethal concentration, 50%	
LD ₅₀	Lethal dose, 50%	
MSHA	Mine Safety and Health Administration	
N/A	Not Applicable	
NIOSH	The National Institute for Occupational Safety and Health	
N.O.S.	Not Otherwise Specified	
NPRI	National Polluant Release Inventory	
NTP	National Toxicology Program	
OHSR	Occupational Health & Safety Regulation	
OSHA	Occupational Safety and Health Administration	
PBT	Persistent, Bioaccumulative and Toxic	

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	SECTION 16: OTHER INFORMATION
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
STOT – SE	Specific Target Organ Toxicity – Single Exposure
STOT – RE	Specific Target Organ Toxicity – Repeated Exposure
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act Chemical Substance
TWA	Time-Weighted Average
UN	United Nations
VOCs	Volatile Organic Compounds
WEL	Workplace Exposure Limit
WEEL	Workplace Environmental Exposure Limit
WHMIS	Workplace Hazardous Materials Information System

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It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. PACE Solutions Corporation will accept no liability for damages or loss incurred from the improper handling and use of this product.

The information provided in the Safety Data Sheet has been obtained from current sources and is believed to be reliable.

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