

MATERIAL SAFETY DATA SHEET
GERMINATOR

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SLUYTER COMPANY LTD.

375 Steelcase Road East
Markham, Ontario L3R 1G3 Canada
Tel (905) 475-6011 Fax (905) 475-3119

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER-----SLUYTER COMPANY LTD.
375 Steelcase Road East
Markham, Ontario L3R 1G3
Canada
Tel (905) 475-6011
PRODUCT NAME-----GERMINATOR.
PRODUCT USES-----Cleaner / Disinfectant.
CHEMICAL FAMILY-----Quaternary Ammonium Chloride based
aqueous blend.

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS / %	CAS / TLV	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES
DIDECYLDIMETHYL AMMONIUM CHLORIDE 7 - 13	7173-51-5 Not Available	450 mg/kg Oral (Rat)	Not Available
ALKYLPHENOL ETHOXYLATE 7 - 13	9016-45-9 Not Available	2830 mg/kg Skin (Rabbit)	Not Available
ISOPROPYL ALCOHOL 7 - 13	67-63-0 400 ppm	5045 mg/kg Oral (Rat)	16000 ppm 4 Hours Inhalation (Rat)
PINE OIL 1 - 5	8002-09-3 Not Available	2760 mg/kg Oral (Rat)	Not Available

SECTION 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:-----
SKIN CONTACT-----Can cause moderate skin irritation,
defatting and dermatitis.
SKIN ABSORPTION-----Not applicable.
INHALATION-----See "EFFECTS OF CHRONIC EXPOSURE", below.
INHALATION CHRONIC-----Mist inhalation can cause respiratory
irritation.
INGESTION-----May be harmful or fatal if swallowed. May
affect the ability to breathe. Circulatory
collapse and death may occur.
EYE CONTACT-----Severe irritation, redness, watering and
blurred vision.
EFFECTS OF ACUTE EXPOSURE-----Refer to "ROUTE ENTRY" section.
EFFECTS OF CHRONIC EXPOSURE-----Prolonged or repeated skin contact may
cause drying or cracking of the skin.

SECTION 04: FIRST AID MEASURES

EYE CONTACT-----Check for and remove any contact lenses.
Immediately flush with water for a minimum
of 20 minutes and get medical attention.
SKIN CONTACT-----Remove contaminated clothing. Wash
affected area with water and soap. Seek
medical attention if irritation occurs or persists.

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INHALATION-----Remove patient to fresh air. If not breathing, trained personnel should administer artificial respiration. Get medical attention.
INGESTION-----Dilute with large quantities of water or milk. Do NOT induce vomiting.
ADDITIONAL INFORMATION-----Contact your local poison control centre.

SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY-----Non-flammable.
UNDER WHAT CONDITIONS-----Not Applicable.
SPECIAL PROCEDURES-----A self-contained breathing apparatus is required for fire fighting personnel. Use water spray to cool fire exposed surfaces and to protect personnel.
FLASH POINT (METHOD)-----Not flammable.
AUTO IGNITION TEMPERATURE-----Not applicable.
UPPER FLAMMABLE LIMIT (% VOL)-----Not applicable.
LOWER FLAMMABLE LIMIT (% VOL)-----Not applicable.
EXTINGUISHING MEDIA-----Use extinguishing media for surrounding fire.
HAZARDOUS COMBUSTION PRODUCTS-----Oxides of Carbon (CO, CO₂). Oxides of Nitrogen.
SENSITIVITY TO MECHANICAL IMPACT-----Not applicable.
SENSITIVITY TO STATIC DISCHARGE-----Not applicable.

SECTION 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL-----Small spills can be wiped. Wash down with water. Large spills must be collected for disposal. Absorb residual material with sand or other absorbent material. Prevent run-off into drains, sewers and other waterways.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES-----Avoid skin and eye contact. Maintain a good personal hygiene.
STORAGE NEEDS-----Do NOT store below 5°C. Do NOT store above 49°C. Keep from freezing. Keep container closed and out of reach from children and pets when not in use.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:-----Skin and eye protection is required by the manufacturer.
EYE/TYPE-----Safety glasses required when handling concentrated product.
RESPIRATORY/TYPE-----None required under normal use.
GLOVES/ TYPE-----Rubber or vinyl gloves for prolonged or repeated contact with the product in concentrated form.
CLOTHING/TYPE-----Not applicable.
FOOTWEAR/TYPE-----Safety boots as specified in workplace regulations.
OTHER/TYPE-----Eye bath and safety shower.
VENTILATION REQUIREMENTS-----Natural ventilation is satisfactory for normal use. Do not use in a confined space.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE-----Liquid.
ODOUR-----Mild odour.
SPECIFIC GRAVITY-----0.98 - 1.02.
ODOUR THRESHOLD (ppm)-----Not applicable.
VAPOUR PRESSURE-----Similar to water.
VAPOUR DENSITY (AIR=1)-----Not available.
EVAPORATION RATE-----Similar to water.
BOILING POINT (deg C)-----100°C.
pH-----11 - 12.
SOLUBILITY IN WATER (% W/W)-----Soluble.
COEFFICIENT OF WATER\OIL-----Not available.
DISTRIBUTION
VOLATILES (%)----- > 80%.
FREEZING POINT-----0°C.
MELTING POINT (deg C)-----Not applicable.
MOLECULAR WEIGHT-----Not applicable.

SECTION 10: STABILITY AND REACTIVITY

INCOMPATIBILITY-----Incompatible with strong oxidizers. Strong acids. Anions Soaps.
REACTIVITY CONDITIONS-----None.
HAZARDOUS PRODUCTS OF DECOMPOSITION-----Oxides of Carbon (CO and CO2). Oxides of Nitrogen. Ammonia. Hydrogen Chloride.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL-----See "HAZARDOUS INGREDIENTS" in SECTION 2.
IRRITANCY OF MATERIAL-----Eye irritant.
SENSITIZING CAPABILITY OF MATERIAL-----Not a sensitizer.
CARCINOGENICITY OF MATERIAL-----No ingredients are listed as a carcinogen by NIOSH, IARC and ACGIH.
TERATOGENICITY-----No information is available and no adverse teratogenicity effects are anticipated.
MUTAGENICITY-----No information is available and no adverse mutagenicity effects are anticipated.
REPRODUCTIVE EFFECTS-----No information is available and no adverse reproductive effects are anticipated.
SYNERGISTIC MATERIALS-----Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL-----Not available.
BIODEGRADABILITY-----Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL-----Prevent run-off into drains, sewers and other water-ways. To be disposed of in accordance with current Local, Provincial and Federal regulations.

SECTION 14: TRANSPORT INFORMATION

T.D.G. CLASSIFICATION-----Not regulated.

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SECTION 15: REGULATORY INFORMATION

CPR COMPLIANCE-----This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
WHMIS CLASSIFICATION-----Class D Div.1 Subdiv.B Class D Div.2 Subdiv.B.

SECTION 16: OTHER INFORMATION

IMPORTANT:-----The information on this Material Safety Data Sheet is furnished without warranty, expressed or implied. All the information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations for the accuracy or sufficiency.