

MATERIAL SAFETY DATA SHEET

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GENERAL INFORMATION # : 314-647-1888
EMERGENCY TELEPHONE # : (800) 854-4236

I-PRODUCT IDENTIFICATION

ROOT-O-KILL

PRODUCT CODE: #199

CHEMICAL FORMULATION: ROOT KILLER FOR SEWER LINES

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: FLAMMABILITY: REACTIVITY:

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity; Common Name (s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% optional
CONTAINS IONICS AND NO-IONIC SURFACTANTS, COPPER SULFATE AND WETTING AGENTS. NO TLV AVAILABLE					

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling Level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III/ List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III/ List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - PHYSICAL DATA

BOILING POINT (C/F): 220°F	MELTING POINT:
VAPOR PRESSURE (mm Hg.)@20C N/A	SPECIFIC GRAVITY (WATER = 1): 1.06
CORROSION RATE: N/A	FREEZING POINT: N/A
VAPOR DENSITY (AIR = 1): N/A	VOC CONTENT (% by weight): N/A
SOLUBILITY IN WATER: N/A	EVAPORATION RATE (Butyl Acetate = 1): N/A
	pH:

APPEARANCE AND ODOR: CLEAR BLUE LIQUID; ODOR-NOT OBJECTIONABLE

IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (F/(C): NONE	(TEST METHOD):
FLAMMABLE LIMITS: NONE	UPPER: N/A LOWER: N/A
EXTINGUISHING MEDIA: NONE	

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARD: A VAPOR ACCUMULATION WILL FLASH AND/OR EXPLODE. IF IGNITED, CONTAINERS MAY BURST EXPLOSIVELY IF OVER HEATED IN FIRE. COOL WITH SPRAY OR FOG. EMPTY CONTAINERS ALSO PRESENT FIRE & EXPLOSION HAZARD DUE TO RESIDUAL VAPORS.

V - REACTIVITY DATA

STABILITY:	STABLE
INCOMPATIBILITY:	NOT KNOWN
CONDITIONS TO AVOID:	EXTREME HEAT OR OPEN FLAME
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:	NONE
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR
CONDITIONS TO AVOID:	NONE

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VI - HEALTH AND HAZARD DATA

ROUTES OF ENTRY: INHALATION? SKIN? INGESTION?

HEALTH HAZARDS (ACUTE & CHRONIC):

CARCINOGENICITY: NTP? IARC MONOGRAPHS? OSHA REGULATED?

EFFECTS OF OVEREXPOSURE

IF IN EYES: EYE IRRITANT

IF ON SKIN: SKIN IRRITANT

IF SWALLOWED: HARMFUL OR FATAL IF SWALLOWED

IF INHALED:

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: FLUSH EYE & SKIN WITH PLENTY OF WATER THOROUGHLY. IF IRRITATION PERSISTS SEEK MEDICAL HELP

IF ON SKIN: SEE ABOVE

IF SWALLOWED: CALL A PHYSICIAN IMMEDIATELY

IF INHALED:

VII - SPILL AND LEAK PROTECTION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: MAY BE FLUSHED WITH WATER.

WASTE DISPOSAL METHOD: ACCORDING TO LOCAL POLLUTION ORDINANCES.

VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: Local Exhaust:

Other:

Mechanical (General):

Special:

RESPIRATORY PROTECTION:

PROTECTIVE GLOVES: RECOMMENDED

EYE PROTECTION: RECOMMENDED

OTHER PROTECTIVE EQUIPMENT:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: TO AVOID WETTING SKIN AND CLOTHES.

OTHER PRECAUTIONS: USE NORMAL SAFETY PRECAUTIONS. KEEP OUT OF REACH OF CHILDREN.

WORK/HYGIENIC PRACTICES :

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