

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA's Hazard Communication Standard CFR 1910.1200 and OSHA Form 174.

N/A SIGNIFIES NON-APPLICABLE

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IDENTITY AND SU	IPPLIERS INF	ORMATIO	N						
PRODUCT NAME:	KILLEM		CHE	MICAL FAMILY	:				
GMP PRODUCT NUMBER:	LUC103		FOR	MULA:	PRO	PRIETARY	HMIS HAZARI	DOUS MATERIAL ON SYSTEM	S RATING
SUPPLIER'S NAME: GENERAL PRODUCTS & SU		JCTS & SUPPL	Y, INC. PHONE NUMBER: (724) 327-7200		HEALTH		2		
SUPPLIER'S ADDRESS: 101 TECHNOLOG		3Y LANE EMERGENCY		RGENCY NO .:	CY NO.: 800-255-3924		FLAMMABILITY		1
	EXPORT, PA 156	32	DATI	E PREPARED:	09/03	8/10	REACTIVITY		0
PROPER SHIPPING NAME:							MAX PERSONAL PROTECTION		N I
SECTION 1 - INGR		ITIFICATIO	N AND INFO	RMATION	I				
		1				OSH	A PEL	OSH	A PEL
CHEMICAL N		CARC.	CAS NO.	Wt.%		TWA	STEL	TWA	STEL
Disodium Ethylene Bisdithiocarbamate Sodium Dimethyldithiocarbamate Ethylene Thiourea			142-59-6 128-04-1 96-45-7	10.00-30. 10.00-30. 0.10-1.0	.00	Not Applicable Not Applicable Not Applicable	Not Applicable Not Applicable Not Applicable	Not Applicable Not Applicable Not Applicable	Not Applicable Not Applicable Not Applicable
SECTION 2 – HAZ	ARDOUS IDE	-	-						
CLASSIFICATION:		WHMIS classi	dous classification: fication: Class D2A fects, Toxic Materi	(Materials Caus				rial); Class D2B (M	laterials Causing
EMERGENCY OVERVIEW:		Clear, yellow-green liquid. Sulphur odour. Caution! May cause eye, skin and respiratory tract irritation. May cause gastrointestinal discomfort. May cause sensitization by skin contact. Contains material which may be a teratogen. Contains material that may cause adverse reproductive effects. Contains material which may cause cancer.							
SECTION 3 - PHY	SICAL/CHEM	ICAL PRO	PERTIES	SEC	TIO	N 4 - FIRE/E		HAZARD D	ATA
BOILING POINT: Not Available VAPOR PRESSURE: (Non-Aerosols)(mm Hg and Temp): Not Available Not Available VAPOR DENSITY (Air = 1): Not Available SOLUBILITY IN WATER: Complete SPECIFIC GRAVITY (H2O = 1) Concentrate Only: 1.176 pH: Not Available EVAPORATION RATE: (Water = 1): Equal to Water PHYSICAL DESCRIPTION: Liquid with a sulph			vailable vailable lete vailable	contai interna AUTC FLASH FLAM EXTIN r. SPEC protec operat Wate	ners ma al press D IGNIT H POIN MABILI IGUISH IAL FI tive eq ted in por r spray	ay rupture if expo sure. TION TEMP: Not IT (of Concentrai ITY LIMITS: IER MEDIA: Dry RE FIGHTING uipment and sel ositive pressure i may be useful ir	Available Available te Only): Non-Fla %UEL: Not Availa chemical, foam, PROCEDURES: f-contained breat mode. Move cont o cooling equipme	al conditions of ha eat or flame due to mmable able %LEL: Not carbon dioxide an Firefighters shou hing apparatus wi ainers from fire are ant exposed to hea combustion produc	build-up of Available d water fog. Ild wear prope th full face piece va if safe to do so it and flame.

SECTION 5 - REACTIVITY HAZARD DATA

STABILITY:	Stable under the recommended storage and handling conditions prescribed.		
HAZARDOUS POLYMERIZATION:	Will Not Occur		
INCOMPATIBILITY:	Strong oxidizing agents; mineral acids.		
CONDITIONS TO AVOID:	Avoid heat and open flame. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas.		
HAZARDOUS DECOMPOSITION PRODUCTS:	None known, refer to hazardous combustion products in Section 4.		
SECTION 6 - HEALTH HAZARD DATA AND FIRST AID			

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ACUTE EFFECTS:		FIRST AID F	PROCEDURES:
SKIN:	May cause moderate to severe irritation.	SKIN:	Remove/take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention. Wash contaminated clothing before re-use.
EYES:	May cause moderate to severe irritation.	EYES:	Immediately flush eyes with plenty of water for at least 15 minutes. If irritation or symptoms develop, seek medical attention.
INHALATION:	May cause irritation to the nose, throat and upper respiratory tract. High concentrations may cause nausea, headache, dizziness and incoordination.	INHALATION:	Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention.
INGESTION:	Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea.	INGESTION:	Seek immediate medical attention/advice. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
EFFECTS OF LONG- TERM (CHRONIC) EXPOSURE	Prolonged or repeated contact may cause drying, cracking and defatting of the skin.		
CARCINOGENIC STATUS:	Possible cancer hazard. See TOXICOLOGICAL INFORMATION, Section 9.		
ADDITIONAL HELATH HAZARDS:	Potential teratogen. Potential reproductive toxicant. Possible sensitizer. See TOXICOLOGICAL INFORMATION, Section 9.		

SECTION 7 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers.

Impervious gloves must be worn when using this product.

Chemical splash goggles are recommended. A full face shield may also be necessary.

NTS: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and washing contaminated clothing before reuse. Do not take contaminated clothing home.

oxides, nitrogen oxides, sulphur oxides, sodium oxides, irritating fumes and smoke.

SECTION 8 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:	All persons dealing with clean-up should wear the appropriate protective equipment including self-contained Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading. Ventilate area of release. Remove all sources of ignition. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal. Notify the appropriate authorities as required. Do not use combustible absorbents, such as sawdust.
WASTE DISPOSAL METHODS:	Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container. Dispose of in accordance with federal, provincial and local hazardous waste laws.
RCRA:	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.
PRECAUTIONS IN HANDLING AND STORAGE:	Use in a well-ventilated area. Wear suitable protective equipment during handling. Do not ingest. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Use proper bonding and grounding techniques when transferring liquid. Avoid contact with incompatible materials. Wash thoroughly after handling. Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Always keep in containers made of the
OTHER PRECAUTIONS:	same materials as the supply containers. KEEP OUT OF REACH OF CHILDREN. Empty containers may contain explosive gas.

SECTION 9 – TOXICOLOGICAL INFORMATION

TARGE ORGANS: ROUTES OF EXPSOURE: TOXICOLOGICAL DATA:	Inhalation: YES		ES Ingestion: YES edients. See below for individual ingredient		
INGREDIENT	LC50(4 hr)	LD50			
INGREDIENT	Inh, rat	(Oral, rat)	Rabbit, dermal)		
Disodium ethylene bisdithiocarbamate	Not Available	395 mg/kg	Not Available		
Sodium Dimethyldithiocarbamate	Not Available	1000 mg/kg	>5000 mg/kg		
Ethylene thiourea	Not Available	1832 mg/kg	Not Available		
CARCINOGENIC STATUS: REPRODUCTIVE EFFECTS:					
TERATOGENICITY:	Contains a chemical or chemicals which may be teratogenic. This product contains: Sodium dimethyldithiocarbamate; Disodium ethylene bisdithiocarbamate.				
MUTAGENICITY: EPIDEMIOLOGY:	Not expected to be mutagenic in humans. Not Available.				

May cause sensitization of susceptible persons by skin contact.

May cause eye, skin and respiratory tract irritation.

None known or reported by the manufacturer.

Pre-existing skin, eye and respiratory disorders.

EPIDEMIOLOGY: SENSITIZIATION TO MATERIAL: SYNERGISTIC MATERIALS: IRRITANCY: OTHER IMPORTANT HAZARDS: CONDITIONS AGGRAVATED BY OVEREXPOSURE:

SECTION 10 – ECOLOGICAL INFORMATION

Not Available.

ECOTOXICITY:	No data is available on the product itself.
MOBILITY:	No data is available on the product itself.
PERSISTENCE:	No data is available on the product itself.
BIOACCUMULATION POTENTIAL:	No data is available on the product itself.
OTHER ADVERSE ENVIRONMENTAL EFFECTS:	The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without any warranty or guarantee of any kind.