

GARDEX CHEMICALS LTD.7 MERIDIAN RD.
ETOBICOKE, ONTARIO
M9W 4Z6

TEL: (416) 675-1638

FAX: (416) 798-1647

MATERIAL SAFETY DATA SHEET**GARDEX BUG-KILL MAXX**

DATE PREPARED: JANUARY 21, 2013

24-HOUR EMERGENCY RESPONSE NUMBER:**CALL CANUTEC COLLECT: 613-996-6666**

PEST CONTROL PRODUCT REGISTRATION NUMBER 27861

SECTION 1**PRODUCT IDENTIFICATION AND USE**

PRODUCT NAME:	GARDEX BUG-KILL MAXX
CHEMICAL FAMILY:	PYRETHROID MIXTURE
CHEMICAL NAME & SYNONYMS:	PERMETHRIN / TETRAMETHRIN
TRADE NAME & SYNONYMS:	

SECTION 2**HAZARDOUS INGREDIENTS**

HAZARDOUSE INGREDIENTS	%	CURRENT TLV
PERMETHRIN	0.2	
NEO-PYNAMIN® (TETRAMETHRIN)	0.2	
DEIONIZED WATER	97.25	
COMMENTS: INGREDIENTS NOT IDENTIFIED ARE PROPRIETARY OR NON-HAZARDOUS. VALUES ARE NOT PRODUCT SPECIFICATIONS.		

SECTION 3**PHYSICAL DATA**

PHYSICAL STATE: LIQUIFIED GASES AND LIQUID	APPEARANCE: MILKY EMULSION	ODOUR: SLIGHT ODOUR OF PETROLEUM DISTILLATES	SPECIFIC GRAVITY: 1.002 (water=1) @ 20°C (68°F)
VAPOUR DENSITY: N.E.	SOLUBILITY IN WATER:	MELT POINT: N.A.	
VAPOUR PRESSURE: N.E.	MISCIBLE IN WATER	% VOLATILE BY VOLUME: 99%	BOILING POINT: N.E.
COMMENTS: WATER SOLUBILITY: WATER SOLUBILITY ANALYSIS IS FOR THE AEROSOL CONTENTS LESS THE COMPRESSED GAS PROPELLANT (IE: NON-VOLATILES). SPECIFIC GRAVITY: SPECIFIC GRAVITY IS FOR THE AEROSOL CONTENTS LESS THE COMPRESSED GAS PROPELLANT (IE: NON-VOLATILES).			

SECTION 4**FIRE AND EXPLOSION DATA**

FLASH POINT: N.A.	FLAMMABLE LIMIT:	EXTINGUISHING MEDIA: FOAM, CO ₂ , DRY CHEMICAL, WATER SPRAY
FLAMMABLE CLASS: OSHA DOES NOT CLASSIFY THIS PRODUCT AS FLAMMABLE OR COMBUSTIBLE.		
HAZARDOUS COMBUSTION PRODUCTS: UNDER FIRE CONDITIONS THIS PRODUCT MAY SUPPORT COMBUSTION AND MAY DECOMPOSE TO GIVE OFF TOXIC GASES AS CARBON MONOXIDE, CARBON DIOXIDE, AND NITROGEN OXIDES.		
FIRE FIGHTING PROCEDURES: USE A FULL-FACED SELF-CONTAINED BREATHING APPARATUS ALONG WITH FULL PROTECTIVE GEAR. KEEP NEARBY CONTAINERS AND EQUIPMENT COOL WITH A WATER STREAM.		

SECTION 5**TOXICITY DATA**

LD50, ORAL (INGESTION): >2000 mg/Kg	LD50, DERMAL (SKIN CONTACT): >2000 mg/Kg	LC50, INHALATION: 3.78 mg/L
FISH, LC50: N.E.	TLV (UNITS) (THRESHOLD LIMIT VALUE):	SKIN IRRITATION: CAN CAUSE MILD SKIN IRRITATION.
EFFECTS TO EYE: MILDLY IRRITATING	EFFECTS TO LUNG: IRRITATING-PROLONGED EXP.	
EYE EFFECTS: PRODUCED CONJUNCTIVAL IRRITATION IN 3/6 ALBINO RABBIT EYES AT 1 HOUR ONLY. NO CORNEAL OPACITY OR IRITIS WAS OBSERVED DURING THE STUDY.		
SKIN EFFECTS: THIS MATERIAL PRODUCED A PRIMARY SKIN IRRITATION INDEX OF 0.04 IN ALBINO RABBITS. CAN CAUSE A BURNING OR PRICKLING SENSATION ON MORE SENSITIVE AREAS (FACE, EYES, MOUTH).		
INGESTION: MAY BE HARMFUL IF SWALLOWED.		
INHALATION: MAY BE IRRITATING TO THE RESPIRATORY TRACT.		
SENSITIZATION: NOT CONSIDERED TO BE A DERMAL SENSITIZER TO ALBINO GUINEA PIGS.		
COMMENTS: NONE OF THE COMPONENTS PRESENT IN THIS MATERIAL AT CONCENTRATIONS EQUAL TO OR GREATER THAN 0.1% ARE LISTED BY IARC, NTP, OSHA, OR ACGIH AS BEING.		

MATERIAL SAFETY DATA SHEET

PAGE 2

GARDEX BUG-KILL MAXX

SECTION 6 REACTIVITY DATA

STABILITY: STABLE	CONDITIONS TO AVOID: NOT COMPATIBLE WITH STRONG ACIDS OR BASES. NOT COMPATIBLE WITH STRONG OXIDIZERS.
POLYMERIZATION: WILL NOT OCCUR	
IMCOMPATABILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS, STRONG ACIDS, AND BASES	
HAZARDOUS DECOMPOSITION PRODUCTS:	

SECTION 7 SPILL OR LEAK PROCEDURE

SMALL SPILL: SHUT OFF IGNITION SOURCES. STOP RELEASE, IF POSSIBLE WITHOUT RISK. DIKE OR CONTAIN RELEASE, IF POSSIBLE, AND IF IMMEDIATE RESPONSE CAN PREVENT FURTHER DAMAGE OR DANGER. ISOLATE AND CONTROL ACCESS TO THE RELEASE AREA. TAKE ACTIONS TO REDUCE VAPOURS. ABSORB WITH APPROPRIATE ABSORBENT. CLEAN SPILL AREA OF RESIDUES AND ABSORBENT.
LARGE SPILL: SHUT OFF IGNITION SOURCES. STOP RELEASE, IF POSSIBLE WITHOUT RISK. DIKE OR CONTAIN RELEASE, IF POSSIBLE, AND IF IMMEDIATE RESPONSE CAN PREVENT FURTHER DAMAGE OR DANGER. ISOLATE AND CONTROL ACCESS TO THE RELEASE AREA. TAKE ACTIONS TO REDUCE VAPOURS. COLLECT PRODUCT INTO DRUMS, ETC. VIA DRAINS, PUMPS, ETC. ABSORB WITH APPROPRIATE ABSORBENT. CLEAN SPILL AREA OF RESIDUES AND ABSORBENT.
ENVIRONMENTAL PRECAUTIONS: WATER SPILL: CONTAINS PYRETHROIDS WHICH ARE TOXIC TO FISH AND OTHER AQUATIC INVERTEBRATES. CONTAMINATED ABSORBENT AND WASTE WATER SHOULD BE DISPOSED OF ACCORDING TO LOCAL, STATE/PROVINCIAL AND FEDERAL/NATIONAL REGULATIONS.
WASTE DISPOSAL METHOD: IF EMPTY: DO NOT REUSE CONTAINER. TRIPLE RINSE CONTAINER AND DISCARD IN HOUSEHOLD GARBAGE.
TO DISCARD UNUSED/UNWANTED PRODUCT: CALL YOUR LOCAL SOLID WASTE AGENCY OR GARDEX CHEMICALS 416-675-1638.

SECTION 8 SPECIAL PROTECTION DATA

RESPIRATOR TYPE: NOT NORMALLY REQUIRED. USE IN WELL VENTILATED AREAS. AVOID BREATHING VAPOURS, MISTS. IN ABSENCE OF PROPER MECHANICAL VENTILATION OR WHERE EXPOSURE LIMITS ARE EXCEEDED, WEAR A NIOSH APPROVED ORGANIC VAPOUR RESPIRATOR.	
EYE PROTECTION: NOT REQUIRED. AVOID EYE CONTACT	GLOVES: NOT REQUIRED. AVOID SKIN CONTACT
OTHER PROTECTIVE EQUIPMENT: N.A.	

SECTION 9 SPECIAL PRECAUTIONS & STORAGE DATA

STORAGE TEMPERATURE (OPTIMUM): ABOVE 0° C	AVERAGE SHELF LIFE: GREATER THAN 1 YEAR
SPECIAL SENSITIVITY (HEAT, LIGHT, MOISTURE): PROTECT FROM FREEZING	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE IN A COOL, DRY, LOCKABLE STORAGE AREA. KEEP AWAY FROM HEAT, IGNITION SOURCES, AND AWAY FROM STRONG ACIDS, BASES AND OXIDIZERS. EMPTIED CONTAINERS MAY RETAIN PRODUCT RESIDUES.	

SECTION 10 SHIPPING DATA

T.D.G. ACT SHIPPING NAME: NOT REGULATED / NON HAZARDOUS			
CLASSIFICATION: N.A.	UN/NA NO.: N.A.	PACKING GROUP: N.A.	PLACARDS REQUIRED: N.R.
LABELS REQUIRED: N.A.			
TECHNICAL SHIPPING NAME: N.A.		PROPER SHIPPING NAME: N.A.	
TRANSPORTATION EMERGENCY TELEPHONE NO.: CANUTEC 1-613-336-6666 OR 1-800-561-7302 EXT 5000			
PREPARED BY: GARDEX CHEMICALS LTD.	PHONE NUMBER: (416) 675-1638	DATE: JANUARY 21, 2013	

N.E. = NOT ESTABLISHED N.A. = NOT APPLICABLE A.I. = ACTIVE INGREDIENT

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of GARDEX CHEMICALS LTD. The data on this sheet relates only to the specific material designated herein. GARDEX CHEMICALS LTD. assumes no legal responsibility for use or reliance upon this data.