

**GARDEX CHEMICALS LTD.**  
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**MATERIAL SAFETY DATA SHEET**  
**GARDEX BUG-KILL MAXX**  
 DATE PREPARED: February 1, 2016

**SECTION 1**  
**PRODUCT IDENTIFICATION AND USE**

<b>PRODUCT NAME:</b>	GARDEX BUG-KILL MAXX
<b>CHEMICAL FAMILY:</b>	PYRETHROID MIXTURE
<b>CHEMICAL NAME &amp; SYNONYMS:</b>	PERMETHRIN / TETRAMETHRIN
<b>TRADE NAME &amp; SYNONYMS:</b>	

**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**

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

**SECTION 4**  
**FIRE AND EXPLOSION DATA**

<b>FLASH POINT:</b> N.A.	<b>FLAMMABLE LIMIT:</b>	<b>EXTINGUISHING MEDIA:</b> FOAM, CO <sub>2</sub> , DRY CHEMICAL, WATER SPRAY
<b>FLAMMABLE CLASS:</b> OSHA DOES NOT CLASSIFY THIS PRODUCT AS FLAMMABLE OR COMBUSTIBLE.		
<b>HAZARDOUS COMBUSTION PRODUCTS:</b> UNDER FIRE CONDITIONS THIS PRODUCT MAY SUPPORT COMBUSTION AND MAY DECOMPOSE TO GIVE OFF TOXIC GASES AS CARBON MONOXIDE, CARBON DIOXIDE, AND NITROGEN OXIDES.		
<b>FIRE FIGHTING PROCEDURES:</b> 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**

<b>LD50, ORAL (INGESTION):</b> >2000 mg/Kg	<b>LD50, DERMAL (SKIN CONTACT):</b> >2000 mg/Kg	<b>LC50, INHALATION:</b> 3.78 mg/L
<b>FISH, LC50:</b> N.E.	<b>TLV (UNITS) (THRESHOLD LIMIT VALUE):</b>	<b>SKIN IRRITATION:</b> CAN CAUSE MILD SKIN IRRITATION.
<b>EFFECTS TO EYE:</b> MILDLY IRRITATING	<b>EFFECTS TO LUNG:</b> IRRITATING-PROLONGED EXP.	
<b>EYE EFFECTS:</b> PRODUCED CONJUNCTIVAL IRRITATION IN 3/6 ALBINO RABBIT EYES AT 1 HOUR ONLY. NO CORNEAL OPACITY OR IRITIS WAS OBSERVED DURING THE STUDY.		
<b>SKIN EFFECTS:</b> 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).		
<b>INGESTION:</b> MAY BE HARMFUL IF SWALLOWED.		
<b>INHALATION:</b> MAY BE IRRITATING TO THE RESPIRATORY TRACT.		
<b>SENSITIZATION:</b> NOT CONSIDERED TO BE A DERMAL SENSITIZER TO ALBINO GUINEA PIGS.		
<b>COMMENTS:</b> 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

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### SECTION 6 REACTIVITY DATA

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

### SECTION 7 SPILL OR LEAK PROCEDURE

<b>SMALL SPILL:</b> 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.
<b>LARGE SPILL:</b> 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.
<b>ENVIRONMENTAL PRECAUTIONS:</b> 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.
<b>WASTE DISPOSAL METHOD:</b> IF EMPTY: DO NOT REUSE CONTAINER. TRIPLE RINSE CONTAINER AND DISCARD IN HOUSEHOLD GARBAGE.
<b>TO DISCARD UNUSED/UNWANTED PRODUCT:</b> CALL YOUR LOCAL SOLID WASTE AGENCY OR GARDEX CHEMICALS 416-675-1638.

### SECTION 8 SPECIAL PROTECTION DATA

<b>RESPIRATOR TYPE:</b> 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.	
<b>EYE PROTECTION:</b> NOT REQUIRED. AVOID EYE CONTACT	<b>GLOVES:</b> NOT REQUIRED. AVOID SKIN CONTACT
<b>OTHER PROTECTIVE EQUIPMENT:</b> N.A.	

### SECTION 9 SPECIAL PRECAUTIONS & STORAGE DATA

<b>STORAGE TEMPERATURE (OPTIMUM):</b> ABOVE 0° C	<b>AVERAGE SHELF LIFE:</b> GREATER THAN 1 YEAR
<b>SPECIAL SENSITIVITY (HEAT, LIGHT, MOISTURE):</b> PROTECT FROM FREEZING	
<b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:</b> 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			
PREPARED BY: GARDEX CHEMICALS LTD.	PHONE NUMBER: (416) 675-1638		DATE: OCTOBER 8, 2004

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

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