

MATERIAL SAFETY DATA SHEET FOR AGRONEEM PLUS

1- PRODUCT IDENTIFICATION

PRODUCT NAME: AGRONEEM PLUS
DESCRIPTION: BOTANICAL INSECTICIDE FORMULATION
CHEMICAL NAME: AZADIRACHTIN AND NEEM EXTRACT BASED AGRICULTURAL SPRAY
CHEMICAL FAMILY: TRITERPENOIDS

2- COMPOSITION / INGREDIENTS INFORMATION

Component	CAS#	WT.%	OSHA PEL	TWA	TLV'S	STEL
AZADIRACHTIN	11141-17-6	0.15	N/A	N/A		N/A
FATS AND GLYCERIDIC OILS, MARGOSA	8002-65-1	15.00	N/A	N/A		N/A
VEGETABLE OIL		20.00%	N/A	N/A		N/A
OTHER INGREDIENTS	*71-36-3	64.85	N/A	N/A		N/A

* Proprietary mixture of n-Butanol and other formulation compounds. n-Butanol is a FLAMMABLE LIQUID.

2-a- HAZARDOUS COMPONENTS

NONE AS PER 29 CFR PART 1910.1200 or SARA 313

THIS PRODUCT IS INTENDED FOR USE AS AN ANTIFEEDANT, INSECT REPELLENT, GROWTH REGULATOR AND AS A PESTICIDE TO CONTROL INSECTS ON AGRICULTURAL CROPS. THIS PRODUCT SHOULD NOT POSE ANY HEALTH CONCERNS IF USED IN ACCORDANCE WITH THE LABEL DIRECTIONS. THIS PRODUCT IS A FLAMMABLE LIQUID. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME

3- PHYSICAL DATA

APPEARANCE: DARK BROWN LIQUID
SOLUBILITY IN WATER: DISPERSIBLE
BOILING POINT: 122°C (>251°F)
MELTING POINT: LIQUID AT NORMAL TEMPERATURES
DENSITY: 0.847
FLASH POINT: 40.0°C (104°F)
pH: 4.8 TO 5.0
STORAGE STABILITY: STABLE AT ROOM TEMPERATURE FOR 18 MONTHS.

4- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NA
FLAMMABLE LIMITS: NA
EXTINGUISHING MEDIA: WATER, CO₂, POLYMER FOAM
SPECIAL PROCEDURES FOR FIRE FIGHTING: FIRE FIGHTERS SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.
UNUSUAL HAZARDS: FLAMMABLE LIQUID. KEEP AWAY FROM OPEN FLAME, HEAT OR SPARKS.
NFPA HAZARD CLASSIFICATION: HEALTH HAZARD 1 FIRE HAZARD 3
REACTIVITY 0

5- HEALTH HAZARD DATA

CARCINOGENICITY: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO

EFFECTS OF

OVEREXPOSURE: NOT KNOWN
TARGET ORGANS: NONE IDENTIFIED
ROUTES OF ENTRY: INHALATION, INGESTION, SKIN CONTACT, EYE CONTACT, ABSORPTION.

TOXICOLOGICAL INFORMATION:

ORAL LD₅₀ = >5600 mg/kg; DERMAL LD₅₀ = >2000 mg/kg; INHALATION LC₅₀ = >4100 mg/m³

ETHANOL HAS BEEN SHOWN TO BE A DEVELOPMENTAL TOXIN FROM CHRONIC INGESTION. SUCH EFFECTS ARE NOT ANTICIPATED FROM THE APPROPRIATE USE OF THIS PRODUCT.

PRECAUTIONARY LABELLING

SIGNAL WORD- CAUTION

HARMFUL IF ABSORBED THROUGH SKIN OR IF INHALED. CAUSES MODERATE EYE IRRITATION. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. AVOID BREATHING SPRAY. REMOVE CONTAMINATED CLOTHING AND WASH CLOTHING BEFORE REUSE. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.

DO NOT APPLY DIRECTLY TO WATER, OR TO AREAS WHERE SURFACE WATER IS PRESENT OR TO INTERTIDAL AREAS BELOW THE MEAN HIGH WATER MARK. DO NOT CONTAMINATE WATER WHEN CLEANING EQUIPMENT OR DISPOSING OF EQUIPMENT WASH WATERS.

EMERGENCY AND FIRST AID PROCEDURES:

IF INHALED: REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH-TO-MOUTH. GET MEDICAL ATTENTION.

IF SWALLOWED: CALL A PHYSICIAN OR POISON CONTROL CENTER. DRINK 1 OR MORE GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING BACK OF THROAT WITH FINGER. IF PERSON IS UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH AND DO NOT INDUCE VOMITING.

IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

IF IN EYES: FLUSH EYES WITH PLENTY OF WATER. CALL A PHYSICIAN IF IRRITATION PERSISTS.

6- REACTIVITY DATA

STABILITY:	STABLE
CONDITIONS TO AVOID:	NONE DOCUMENTED
INCOMPATIBLES:	NONE
POLYMERIZATION:	WILL NOT OCCUR
DECOMPOSITION PRODUCTS:	CARBON MONOXIDE

7- SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE:

TAKE UP WITH SAND OR OTHER ABSORBANT MATERIAL AND PLACE IN CONTAINER FOR LATER DISPOSAL. WASH DOWN THE AREA WITH WATER

DISPOSAL PROCEDURE:

BURY OR INCINERATE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

8-PROTECTIVE EQUIPMENT

VENTILATION:	USE ADEQUATE GENERAL LOCAL EXHAUST VENTILATION TO KEEP VAPOR OR MIST LEVELS AS LOW AS POSSIBLE.
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RESPIRATORY PROTECTION:	NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, USE AN APPROPRIATE RESPIRATOR OR DUST MASK.
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EYE/ SKIN PROTECTION:	SAFETY GOGGLES, CHEMICAL RESISTANT GLOVES, COVERALLS, SHOES AND SOCKS.
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9- STORAGE AND HANDLING PRECAUTIONS

SPECIAL PRECAUTIONS:	KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL AND DRY PLACE. SUITABLE FOR ANY GENERAL CHEMICAL STORAGE AREA. AVOID PERSONAL CONTACT AND HANDLE WITH CARE IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICES.
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10- TRANSPORTATION DATA

DOT SHIPPING NAME:	BUTANOLS
DOT HAZARD CLASS:	CLASS 3, FLAMMABLE LIQUID
UN NUMBER:	1120
DOT LABEL:	EXEMPTED FROM LABELING AS PER DOT TITLE 49, CHAPTER I, PART 173, SECTION 173.121, CLASS 3, GROUP III, AND SECTION 173.150.
DOT PLACARD:	EXEMPTED AS PER DOT TITLE 49, PART 173, SECTION 173.150 (b)

11- DISPOSAL DATA

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE AND DISPOSAL.

PESTICIDE STORAGE: KEEP IN ORIGINAL PACKAGING IN COOL AND DRY PLACE AWAY FROM SUNLIGHT AND FOODSTUFFS. DO NOT REFRIGERATE.

FOR COMMERCIAL AGRICULTURAL USE:

PESTICIDE DISPOSAL: WASTES RESULTING FROM THE USE OF THIS PRODUCT MAY BE DISPOSED OF ON-SITE OR AT AN APPROVED WASTE DISPOSAL FACILITY.

CONTAINER DISPOSAL: TRIPLE RINSE (OR EQUIVALENT). THEN OFFER FOR RECYCLING OR RECONDITIONING OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL, OR INCINERATION, OR, IF ALLOWED BY STATE AND LOCAL AUTHORITIES, BY BURNING. IF BURNED, STAY OUT OF SMOKE.

12- LABEL DATA

LABEL NAME:	AGRONEEM PLUS
LABEL ADDRESS:	AGRO LOGISTIC SYSTEMS, INC. P.O. BOX: 5799 DIAMOND BAR, CA 91765 USA
LABEL TELEPHONE:	800-425-3388
LABEL FAX:	909-594-7330
LABEL e-mail:	info@agrologistic.com

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