

MATERIAL SAFETY DATA SHEET FOR DEBUG 3.0

1- PRODUCT IDENTIFICATION

PRODUCT NAME: DEBUG 3.0
COMMON NAME: Azadirachtin 3% EC (30000 PPM)
DESCRIPTION: BOTANICAL INSECTICIDE, NEMATOCIDE, FUNGICIDE, INSECT REPELLANT, INSECT GROWTH REGULATOR, AND INSECT ANTIFEEDANT.
CHEMICAL NAME: AZADIRACHTIN BASED AGRICULTURAL SPRAY
CHEMICAL FAMILY: TRITERPENOIDS

2- COMPOSITION / INGREDIENTS INFORMATION

Component	CAS#	WT. %	OSHA PEL	TWA	TLV'S
AZADIRACHTIN	11141-17-6 95507-03-2	3.00	N/A	N/A	STEL N/A
OTHER INGREDIENTS		97.00	N/A	N/A	N/A

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.

3- PHYSICAL DATA

APPEARANCE: DARK BROWN LIQUID
SOLUBILITY IN WATER: DISPERSIBLE
BOILING POINT: 365-428°F
MELTING POINT: LIQUID AT NORMAL TEMPERATURES
DENSITY: 1.064
FLASH POINT: > 200°F
pH: 5.3
STORAGE STABILITY: STABLE AT ROOM TEMPERATURE

4- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: > 200°F
FLAMMABLE LIMITS: NOT ESTABLISHED
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: NONE KNOWN
NFPA HAZARD CLASSIFICATION: HEALTH HAZARD 1 REACTIVITY 0 FIRE HAZARD 3
HAZARDOUS DECOMPOSITION: THERMAL DECOMPOSITION WILL PRODUCE OXIDES OF CARBON, NITROGEN ETC.

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:

ACUTE ORAL LD₅₀ = >5000 mg/kg; DERMAL LD₅₀ = >2000 mg/kg; INHALATION LC₅₀ = NOT DETERMINABLE
 DERMAL IRRITATION = Non Irritant; ACUTE EYE IRRITATION = Non Irritant; SKIN SENSITIZATION: Non sensitizer

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

6- 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 OR RINSATE. THIS PRODUCT IS TOXIC TO FISH AND AQUATIC INVERTEBRATES

7- EMERGENCY AND FIRST AID PROCEDURES:

IF ON SKIN OR CLOTHING: TAKE OFF CONTAMINATED CLOTHING. RINSE SKIN IMMEDIATELY WITH PLENTY OF WATER FOR 15-20 MINUTES. CALL A POISON CONTROL CENTER OR DOCTOR FOR TREATMENT ADVICE.

IF INHALED: REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING CALL 911 OR AN AMBULANCE, THEN GIVE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH TO MOUTH, IF POSSIBLE. CALL A POISON CONTROL CENTER OR DOCTOR FOR FURTHER TREATMENT ADVICE.

IF IN EYES: IMMEDIATELY FLUSH THE EYES WITH COPIOUS AMOUNT OF CLEAR, COOL RUNNING WATER FOR A MINIMUM 15 MINUTES. HOLD THE EYELIDS APART DURING THE FLUSHING TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. CONTACT A PHYSICIAN IMMEDIATELY.

IF INHALED: REMOVE VICTIM TO FRESH AIR. IF BREATHING HAS CEASED CLEAR THE VICTIM'S AIRWAY AND START MOUTH-TO-MOUTH ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CONTACT A PHYSICIAN IMMEDIATELY. BE SURE THAT THE CONTACT AREAS ARE CLEAN TO PREVENT CONTAMINATION OF THE RESCUER.

8- REACTIVITY DATA

STABILITY:	STABLE
CONDITIONS TO AVOID:	HIGH TEMPERATURES AND DIRECT SUNLIGHT DURING STORAGE
INCOMPATIBLES:	INCOMPATIBLE WITH ACID, ALKALINE AND OXIDIZING SUBSTANCES
POLYMERIZATION:	WILL NOT OCCUR

9- 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 DETERGENT AND WATER. PREVENT LIQUID FROM ENTERING SEWERS, WATERWAYS OR LOW AREAS. CONSULT AN EXPERT ON THE DISPOSAL OF RECOVERED MATERIAL. EVACUATE PERSONNEL, THOROUGHLY VENTILATE AREA. USE SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

DISPOSAL PROCEDURE:

BURY OR INCINERATE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. ENSURE DISPOSAL IS IN COMPLIANCE WITH GOVERNMENT REQUIREMENTS AND ENSURE CONFORMITY OF LOCAL DISPOSAL REGULATIONS. NOTIFY THE APPROPRIATE AUTHORITIES IMMEDIATELY.

10- PROTECTIVE EQUIPMENT

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

11- 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. MATERIAL TO BE STORED BELOW 68°F. STORE IN COOL, DRY PLACE. DO NOT STORE OR CONSUME FOOD, DRINK OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL. WEAR PERSONAL PROTECTIVE EQUIPMENT: LONG SLEEVED SHIRT AND LONG PANTS, CHEMICAL-RESISTANT GLOVES, AND SHOES PLUS SOCKS. CLEAN PROTECTIVE CLOTHING AS NEEDED. DO NOT MIX WITH WATER EXCEPT FOR THE NORMAL PREPARATION OF APPLICATION. AVOID HEAT, SPARKS, AND OPEN FLAME. KEEP AWAY FROM CHILDREN AND PETS.
-----------------------------	---

12- TRANSPORTATION DATA

DOT SHIPPING NAME:	N/A
TECHNICAL SHIPPING NAME:	NEEM OIL
DOT HAZARD CLASS:	N/A
UN NUMBER:	N/A
DOT LABEL:	NONE
DOT PLACARD:	NONE

13- 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: Nonrefillable Container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into the application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or puncture or dispose of in a sanitary landfill, or by incineration. Do not burn unless allowed by state and local ordinances.

14- LABEL DATA

LABEL NAME:	DEBUG 3.0
LABEL ADDRESS:	AGRO LOGISTIC SYSTEMS, INC. 555 W. LAMBERT ROAD, UNIT-N BREA, CA 92821 USA
LABEL TELEPHONE:	714-990-9220
LABEL FAX:	714-990-9222
LABEL e-mail:	info@agrologistic.com

**THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND EXPRESSED OR IMPLIED, IS MADE WITH RESPECT TO THE INFORMATION CONTAINED HEREIN. THIS MATERIAL SAFETY DATA SHEET WAS PREPARED TO COMPLY WITH THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). THIS SUPERCEDES ANY PREVIOUS INFORMATION.
DATE: MARCH 08, 2013.**