

# SAFETY DATA SHEET FOR DEBUG-ON

## 1. IDENTIFICATION

**PRODUCT IDENTIFIER:** DEBUG-ON  
**NAME & ADDRESS OF MANUFACTURER:** AGRO LOGISTIC SYSTEMS INC.  
 555 WEST LAMBERT ROAD, UNIT-N  
 BREA, CA 92821  
**EMERGENCY PHONE NUMBER:** 714-990-9220  
**RECOMMENDED USE:** COLD PRESSED NEEM OIL BASED AGRICULTURAL SPRAY  
 BOTANICAL INSECTICIDE, MITICIDE, NEMATOCIDE, FUNGICIDE, INSECT REPELLANT, AND  
 ANTIFEEDANT. APPROVED FOR USE IN ORGANIC FARMING.

## 2. HAZARDS IDENTIFICATION

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. APPROVED FOR USE IN ORGANIC FARMING. THIS PRODUCT SHOULD NOT POSE ANY HEALTH CONCERNS IF USED IN ACCORDANCE WITH THE LABEL DIRECTIONS.  
**SIGNAL WORD-CAUTION**  
**HAZARD STATEMENTS:**

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if absorbed through skin or if inhaled. Causes moderate eye irritation. Avoid breathing spray. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### Personal Protective Equipment (PPE)

Applicators, Mixers and other handlers must wear  
 -Coveralls

- Socks, shoes, and  
 -Chemical resistant gloves.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables use detergent and hot water. Keep and wash PPE separately from other laundry.

#### USER SAFETY RECOMMENDATIONS

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.  
 Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

For terrestrial uses: 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 disposing of equipment washwater or rinsate. This product is toxic to fish and aquatic invertebrates. Drift or runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**CHEMICAL NAME:** OIL OF NEEM  
**COMMON NAME AND SYNONYMS:** COLD PRESSED NEEM OIL

Component	CAS#	WT.%	OSHA			TLV'S	
			PEL	TWA	STEL		
FATS AND GLYCERIDIC OILS, MARGOSA	8002-65-1	70.00	N/A	N/A	N/A	N/A	N/A
OTHER INGREDIENTS		30.00	N/A	N/A	N/A	N/A	N/A

## 4. FIRST AID MEASURES

### FIRST AID

If in Eyes	- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing - Call a poison control center or doctor for treatment advice
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	-- Move person to fresh air. - If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. - Call a poison control center or doctor for further treatment advice.

## HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 Monday through Friday, 6:30AM to 12:30PM Pacific Time (NPIC Web Site: [www.npic.orst.edu](http://www.npic.orst.edu)).

## 5. FIRE FIGHTING MEASURES

**FLASH POINT:** 177.8 Degrees F  
**FLAMMABLE LIMITS:** NA

EXTINGUISHING MEDIA: WATER, CO<sub>2</sub>, POLYMER FOAM  
 SPECIAL PROCEDURES FOR FIRE FIGHTING: FIRE FIGHTERS SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.  
 UNUSUAL HAZARDS: KEEP AWAY FROM OPEN FLAME, HEAT OR SPARKS.  
 NFPA HAZARD CLASSIFICATION: HEALTH HAZARD 1 FIRE HAZARD 3  
 REACTIVITY 0

#### 6. ACCIDENTAL RELEASE MEASURES

##### 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.

VENTILATION: USE ADEQUATE GENERAL LOCAL EXHAUST VENTILATION TO KEEP VAPOR OR MIST LEVELS AS LOW AS POSSIBLE.

RESPIRATORY PROTECTION: IF AIRBORNE CONCENTRATION IS HIGH, USE AN APPROPRIATE RESPIRATOR OR DUST MASK.

EYE/ SKIN PROTECTION: SAFETY GOGGLES, CHEMICAL RESISTANT GLOVES, COVERALLS, SHOES AND SOCKS.

#### 7. HANDLING AND STORAGE

SPECIAL PRECAUTIONS: KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL AND DRY PLACE (BETWEEN 60 DEGREES F AND 80 DEGREES F). SUITABLE FOR ANY GENERAL CHEMICAL STORAGE AREA. AVOID PERSONAL CONTACT AND HANDLE WITH CARE IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICES. DO NOT REFRIGERATE.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 LD<sub>50</sub> = >5000 mg/kg; DERMAL LD<sub>50</sub> = >2000 mg/kg; INHALATION LC<sub>50</sub> = >6.17 +/- 1.23 mg/liter  
 DERMAL IRRITATION= Slightly irritating, Toxicity Category IV; ACUTE EYE IRRITATION= Minimally irritating, Toxicity Category III; SKIN SENSITIZATION: Mildly Sensitizing (test with similar product containing high concentration of the same AI)

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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##### Personal Protective Equipment (PPE)

Applicators, Mixers and other handlers must wear

- Coveralls
- Socks, shoes, and
- Chemical resistant gloves.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables use detergent and hot water. Keep and wash PPE separately from other laundry

##### USER SAFETY RECOMMENDATIONS

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**9. PHYSICAL CHEMICAL PROPERTIES**

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APPEARANCE:	DARK BROWN LIQUID
UPPER/LOWER FLAMMABILITY	177.8 DEGREES F
ODOR:	CHARACTERISTIC NUTTY ODOR
VAPOR PRESSURE:	N/A
pH:	4.81
RELATIVE DENSITY:	0.907
MELTING/FREEZING POINT:	LIQUID/ 60 DEGREES F
SOLUBILITY IN WATER:	DISPERSIBLE
BOILING POINT:	>209°F
FLASH POINT:	177.8 DEGREES F
EVAPORATION RATE:	N/A
PARTITION COEFFICIENT:	N/A
AUTO-IGNITION TEMPERATURE:	N/A
DECOMPOSITION TEMPERATURE:	N/A
VISCOSITY:	58.2 cps
STORAGE STABILITY:	STABLE AT ROOM TEMPERATURE FOR 24 MONTHS.
STABILITY:	STABLE
CONDITIONS TO AVOID:	NONE DOCUMENTED
INCOMPATIBLES:	NONE
POLYMERIZATION:	WILL NOT OCCUR
DECOMPOSITION PRODUCTS:	CARBON MONOXIDE

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**10. STABILITY AND REACTIVITY**

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**REACTIVITY DATA:**

STABILITY:	STABLE
CONDITIONS TO AVOID:	NONE DOCUMENTED
INCOMPATIBLES:	NONE
POLYMERIZATION:	WILL NOT OCCUR
DECOMPOSITION PRODUCTS:	CARBON MONOXIDE
CHEMICAL STABILITY:	STABLE UNDER AMBIENT TEMPERATURE
STABILIZER:	NONE REQUIRED
PHYSICAL APPEARANCE:	UNCHANGED UNDER AMBIENT TEMPERATURE
OTHER:	
POLYMERIZATION:	WILL NOT OCCUR
CONDITIONS TO AVOID:	EXTREME COLD AS PRODUCT WILL SOLIDIFY
INCOMPATIBLE MATERIALS:	COPPER PRODUCTS, ALKALINE PRODUCTS
HAZARDOUS DECOMPOSITIONS PRODUCTS	NONE

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**11. TOXICOLOGICAL INFORMATION**

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

**CARCINOGENICITY:**

NTP:	NO
IARC:	NO
Z LIST:	NO
OSHA REG:	NO
ORAL LD <sub>50</sub>	=>5000MG/KG
DERMAL LD <sub>50</sub>	=> 2000 MG/KG
INHALATION LC <sub>50</sub> :	=>1.34 MG/LITER
DERMAL IRRITATION:	NON IRRITANT
ACUTE EYE IRRITATION:	SLIGHT IRRITANT
SKIN SENSITIZATION:	MODERATE SENSITIZER

Harmful if absorbed through skin or if inhaled. Causes moderate eye irritation. Avoid breathing spray. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

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**12. ECOLOGICAL INFORMATION**

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**ENVIRONMENTAL HAZARDS**

For terrestrial uses: 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 disposing of equipment washwater or rinsate.

This product is toxic to fish and aquatic invertebrates. Drift or runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

PARTITION COEFFICIENT:	LOW KOW (OCTANOL/WATER)
OZONE LAYER DEPLETION POTENTIAL:	NONE
GLOBAL WARMING POTENTIAL:	NONE
BIODEGRADATION:	2 YEARS SHELF STORAGE LIFE AT AMBIENT TEMPERATURE.

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**13.DISPOSAL CONSIDERATIONS**


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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.

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**14.TRANSPORT INFORMATION**


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UN NUMBER:	NOT REGULATED
UN PROPER SHIPPING NAME:	NOT REGULATED
TRANSPORT HAZARD CLASS:	NOT REGULATED
PACKAGING GROUP NUMBER:	NOT REGULATED
ENVIRONMENTAL HAZARDS:	For terrestrial uses: 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 disposing of equipment washwater or rinsate. This product is toxic to fish and aquatic invertebrates. Drift or runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

GUIDANCE FOR TRANSPORT IN BULK:	DO NOT TRANSPORT IN BULK
TECHNICAL SHIPPING NAME:	NEEM OIL
DOT LABEL:	NONE
DOT PLACARD:	NONE
GHS CATEGORY:	4
NFPA:	CLASS IIIA
OSHA:	N/A
ANSI:	N/A

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**15.REGULATORY INFORMATION**


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EPA- 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 INVERTIBRATES

Combustible. Do not use or store near heat or open flame

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**16.OTHER INFORMATION**


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LABEL NAME:	DEBUG-ON
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

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DATE: OCTOBER 20, 2017.