

# MATERIAL SAFETY DATA SHEET

LANDMASTER® BW

EPA REGISTRATION NUMBER 42750-62

EFFECTIVE DATE: DECEMBER 28, 2000

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ALBAUGH, INC.  
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## I. INGREDIENTS:

		PEL/TLV
ISOPROPYLAMINE SALT OF		
GLYPHOSATE* (CAS # 38641-94-0)	12.9 %	NOT ESTABLISHED
ISOPROPYLAMINE SALT OF 2,4-D** (CAS # 5742-17-6)	20.6 %	NOT ESTABLISHED
N-METHYLPYRROLIDONE (CAS # 872-50-4)	<7.0 %	NOT ESTABLISHED

\*N-(PHOSPHONOMETHYL)GLYCINE

\*\*2,4-DICHLOROPHENOXYACETIC ACID

## II. PHYSICAL DATA:

**BOILING POINT:** NOT DETERMINED  
**VAPOR PRESSURE:** NOT DETERMINED  
**SPECIFIC GRAVITY:** 1.13 @ 20` C  
**APPEARANCE:** YELLOW, CLEAR LIQUID  
**ODOR:** SLIGHT AMINE ODOR

**MELTING POINT:** NOT APPLICABLE  
**SOLUBILITY IN WATER:** SOLUBLE  
**PH:** 5.4 (1 % SOLUTION)  
**VAPOR DENSITY:** NOT DETERMINED

## III. FIRE AND EXPLOSION DATA

**FLASH POINT:** NOT APPLICABLE  
**AUTOIGNITION TEMPERATURE:** NOT ESTABLISHED  
**FLAMMABLE LIMITS:** NOT ESTABLISHED  
**EXTINGUISHING MEDIA:** WATER , FOAM, DRY CHEMICAL.  
**NFPA CLASSIFICATION:** HEALTH = 1, FLAMMABILITY = 1, REACTIVITY = 1  
[0=LEAST, 1=SLIGHT, 2=MODERATE, 3=HIGH, 4=SEVERE]]

## IV. REACTIVITY DATA:

**STABILITY:** STABLE UNDER NORMAL CONDITIONS.  
**CONDITIONS TO AVOID:** DO NOT STORE OR MIX IN GALVANIZED OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS. THIS PRODUCT MAY REACT WITH SUCH METALS TO PRODUCE HYDROGEN GAS WHICH COULD FORM A HIGHLY COMBUSTIBLE GAS MIXTURE.  
**MATERIALS TO AVOID:** REDUCING AGENTS, ACIDS, BASES.  
**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR  
**HAZARDOUS DECOMPOSITION:** THERMAL DECOMPOSITION MAY RELEASE TOXIC AND/OR HAZARDOUS GASES ( CO, NO<sub>x</sub>, PO<sub>x</sub>)

## V. ENVIRONMENTAL AND DISPOSAL INFORMATION:

USE ABSORBANT MATERIAL TO CONTAIN SPILLS. PLACE CONTAMINATED ABSORBANT IN DRUMS AND DISPOSE OF AT AN EPA APPROVED INCINERATOR. DO NOT REUSE CONTAINERS. EMPTY CONTAINERS SHOULD BE TRIPLE RINSED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. LARGE SPILLS SHOULD BE REPORTED IMMEDIATELY TO CHEMTREC (800)424-9300 AND TO ALBAUGH, INC.

RCRA HAZARDOUS WASTE CODES: 2,4-D D016, U240  
CERCLA REPORTABLE QUANTITY: 2,4-D 100 LB

**VI. HEALTH HAZARD DATA:**

**ROUTES OF ENTRY:** CONTACT, INHALATION, INGESTION.

**INHALATION:** NO MORE THAN SLIGHTLY TOXIC. ACUTE LC<sub>50</sub>-4 HR-RAT = >5.5 MG/L.

**SKIN CONTACT:** NO MORE THAN SLIGHTLY IRRITATING. ACUTE DERMAL LD<sub>50</sub> (RAT) = >5,000 MG/KG. NOT A DERMAL SENSITIZER. FIFRA TOXICITY CATEGORY IV FOR PRIMARY DERMAL IRRITATION.

**EYE CONTACT:** IRRITATING. OVEREXPOSURE MAY CAUSE PAIN, REDNESS, AND TEARING. FIFRA TOXICITY CATEGORY III.

**INGESTION:** NO MORE THAN SLIGHTLY TOXIC. THE ACUTE ORAL LD<sub>50</sub> (RAT) IS >2,000 MG/KG. IF SMALL AMOUNTS (LESS THAN A MOUTHFUL) ARE SWALLOWED NO ADVERSE EFFECTS ARE EXPECTED. INGESTION OF LARGER AMOUNTS MAY RESULT IN GASTROINTESTINAL DISCOMFORT, IRRITATION OF THE MOUTH, NAUSEA, VOMITING, AND DIARRHEA.

**CARCINOGENICITY:** INGREDIENTS IN THIS PRODUCT ARE NOT LISTED AS CARCINOGENS BY NTP, IARC, OR OSHA. EPA HAS LISTED GLYPHOSATE IN CATEGORY E (EVIDENCE OF NON-CARCINOGENICITY FOR HUMANS).

**MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:** NONE KNOWN

**VII. FIRST AID**

**EYES:** FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

**SKIN:** WASH THOROUGHLY WITH SOAP AND WATER. GET MEDICAL ATTENTION IN THE UNLIKELY EVENT THAT IRRITATION PERSISTS.

**INHALATION:** REMOVE TO FRESH AIR. IF BREATHING STOPS ADMINISTER ARTIFICIAL RESPIRATION AND GET MEDICAL ATTENTION IMMEDIATELY. IF BREATHING IS DIFFICULT REFER TO A PHYSICIAN.

**INGESTION:** GIVE ONE OR TWO GLASSES OF WATER OR MILK AND GET MEDICAL ATTENTION.

**VIII. HANDLING PRECAUTIONS**

**VENTILATION:** HANDLE IN A WELL VENTILATED AREA. IF VENTILATION IS NOT ADEQUATE, WEAR AN APPROVED AIR-PURIFYING RESPIRATOR FOR USE WITH ORGANIC VAPORS AND DUST/MIST FOR PESTICIDES. DO NOT BREATHE HEAVY VAPORS OR MISTS.

**PROTECTIVE CLOTHING:** WEAR CHEMICAL RESISTANT GLOVES, LONG PANTS, LONG SLEEVED SHIRT, CHEMICAL RESISTANT BOOTS, AND A HAT. AVOID DIRECT CONTACT WITH THE SKIN.

**EYE PROTECTION:** WEAR SAFETY GOGGLES OR FACE SHIELD.

**IX. SARA TITLE III NOTIFICATION AND INFORMATION:**

**SARA TITLE III HAZARD CLASSES:** ACUTE HEALTH=YES, CHRONIC HEALTH=NO, FIRE=NO, SUDDEN PRESSURE=NO, REACTIVE=NO.

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SEC 313 AND 40 CFR PART 372.

N-METHYLPYRROLIDONE CAS # 872-50-4 <7 %

**X. ADDITIONAL INFORMATION:**

STORE ABOVE 40°F. DO NOT STORE NEAR FOOD OR WITHIN THE REACH OF CHILDREN. DO NOT STORE NEAR HEAT OR OPEN FLAME.

THE INFORMATION HEREIN IS PROVIDED IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED, IS MADE. CONTACT ALBAUGH, INC. FOR FURTHER INFORMATION.