

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**COMPANY ADDRESS:**

ALBAUGH, INC.  
Ankeny, IA 50021

**EMERGENCY TELEPHONE NUMBERS:**

(800) 424-9300 (CHEMTREC, transportation and spills)

PRODUCT NAME : **BUTYRAC 200**  
 CHEMICAL NAME : Dimethylamine Salt of 4-(2,4-dichlorophenoxy)butyric acid  
 CHEMICAL FAMILY : Phenoxy herbicide  
 PRODUCT CODE : EPA Reg. No. 42750-38

### SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER	OSHA PEL	ACIGH TLV
Dimethylamine Salt of 4-(2,4-dichlorophenoxy)butyric acid	25.9 %	2758-42-1	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Inert Ingredients	74.1 %	N/A	N/A	N/A

### SECTION 3 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

**HEALTH HAZARDS:** Corrosive and severe eye irritant with permanent eye injury possible including blindness. Harmful if swallowed or absorbed through skin.

**PHYSICAL HAZARDS:** May release toxic fumes if burned.

**ENVIRONMENTAL HAZARDS:** 2,4-D DB DMA is toxic to some aquatic organisms.

### SECTION 4 - FIRST AID MEASURES

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**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.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## **SECTION 5 - FIRE FIGHTING MEASURES**

**FLASH POINT:** Not combustible

**AUTOIGNITION TEMPERATURE:** Not established

**FLAMMABLE LIMITS:** Not established

**EXTINGUISHING MEDIA:** Water spray, Foam

**FIRE FIGHTING INSTRUCTIONS:** Evacuate area and fight fire upwind from a safe distance to avoid possible hazardous fumes and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water run off.

**FIRE FIGHTING EQUIPMENT:** Self-contained breathing apparatus with full facepiece and protective clothing.

**HAZARDOUS COMBUSTION PRODUCTS:** Hydrogen chloride, Oxides of nitrogen,

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**SMALL SPILL:** Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

**LARGE SPILL:** Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal.

## **SECTION 7 - HANDLING AND STORAGE**

KEEP OUT OF REACH OF CHILDREN!

**HANDLING:** Use only in a well-ventilated area. Do not reuse this container. Wear proper safety equipment.

**STORAGE:** Keep container closed when not in use. Keep away from food, feed and drinking water. Store away from heat (> 100 F) and keep from freezing (< 35 F).

## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**EXPOSURE LIMITS (8 hour TWA, ppm):** Refer to Section 3.

**ENGINEERING CONTROLS:** Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### **PERSONAL PROTECTIVE EQUIPMENT:**

**EYE PROTECTION** - Safety goggles or full face respirator if vapors cause eye discomfort.

**CLOTHING** – Coveralls over short-sleeved shirt and short pants, Chemical resistant footwear plus socks.

**GLOVES** – Chemical resistant gloves made of any waterproof material.

**RESPIRATOR** - When handling in enclosed areas where exposure limits may be exceeded, use a respirator with either an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL DESCRIPTION:** Clear amber to brown liquid

**ODOR:** Pungent amine like

**SPECIFIC GRAVITY:** 1.05 – 1.111 g/ml (8.80 – 9.30 lb/gal.)\*

**pH:** 7.5 – 9.5

**VAPOR PRESSURE:** 16.5 mm Hg at 20C

**VAPOR DENSITY:** < 1 (water vapor)

**WATER SOLUBILITY:** Soluble

\*Listed density is an approximate value and does not necessarily represent that of a specific batch.

## SECTION 10 - STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable under normal conditions.

**CONDITIONS TO AVOID:** Avoid excessive heat.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Oxidizing agents and acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may release toxic gases such as HCl

**HAZARDOUS POLYMERIZATION:** Will not occur

## SECTION 11 - TOXICOLOGICAL INFORMATION

### **ACUTE TOXICITY:**

Oral LD <sub>50</sub> (rat)	-	> 2,500 mg/Kg
Dermal LD <sub>50</sub> (rat)	-	> 2,000 mg/Kg
Inhalation LC <sub>50</sub> (rat)	-	> 5.0 mg/L
Eye Irritation (rabbit)	-	Severe
Skin Irritation (rabbit)	-	Slight
Sensitization (guinea pig)	-	Non-sensitizer

### **CARCINOGEN STATUS:**

OSHA	-	No
NTP	-	No
IARC	-	2B

**MUTAGENIC DATA:** No known to be mutagenic

## SECTION 12 - ECOLOGICAL INFORMATION

**ENVIRONMENTAL SUMMARY:** This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. 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 washwaters. Data indicate that 2,4-DB DMA dissociates to the parent acid in the environment with an environmental half-life of approximately 7-10 days depending on local conditions and weather.

### **FISH TOXICITY:** (Acid Technical)

96 hour LC<sub>50</sub>, Bluegill – 7.5 mg/L

96 hour LC<sub>50</sub>, Rainbow trout – 2 mg/L

### **AVIAN TOXICITY:** (Acid Technical)

Oral Dietary LC<sub>50</sub>, Bobwhite Quail - > 5,500 ppm

Oral Dietary LC<sub>50</sub>, Mallard Duck - > 5,500 ppm

**BEE TOXICITY:** Unknown.

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Do not contaminate water, food, or feed by storage or disposal.

**WASTES:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER:** Non-refillable containers: Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Refer to the container label to determine if it is refillable and for complete cleaning and disposal instructions.

### **SECTION 14 - TRANSPORT INFORMATION**

**DOT SHIPPING DESCRIPTION:** Not regulated by DOT

**DOT HAZARD CLASS:** N/A

**UN NUMBER:** N/A

**DOT PACKING GROUP:** N/A

**DOT PRIMARY/SECONDARY LABEL:** N/A

**DOT PRIMARY/SECONDARY PLACARD:** N/A

**DOT EMERGENCY RESPONSE GUIDE #:** N/A

### **SECTION 15 - REGULATORY INFORMATION**

**CERCLA REPORTABLE QUANTITY:** Not listed

**SARA TITLE III STATUS:**  
311/312 Hazard Categories - Immediate & Delayed Health  
313 Toxic Chemicals – 2,4-DB acid

**CALIFORNIA PROP 65:** 2,4-DB acid

### **SECTION 16 - OTHER INFORMATION**

HMIS HAZARD RATINGS	HEALTH	3
	FLAMMABILITY	0
	PHYSICAL HAZARD	1
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

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**REVISED DATE:** August, 2012

**REVISED FOR:** Revised Section 13 to match EPA approved label