



# SAFETY DATA SHEET

For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) call CHEMTREC at 1-800-424-9300

## 1. Product Identification:

### Product Name: REPAR WEED AND FEED

**Manufacturer:** Repar Corporation  
**Telephone:** 202-223-1424  
**Address:** P.O. Box 4321  
**City, State, Zip:** Silver Spring, MD 20914  
**Emergency Phone:** 202-223-1424 (Monday-Friday, 10:00 a.m. – 6:00 p.m.)  
**24 Hour Emergency Phone (CHEMTREC):** 1-800-424-9300  
**U.S. EPA Registration No.:** 69361-2  
**Product Use:** Plant Growth Regulator

## 2. Health Hazard(s) Identification:

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

Light brown crystalline solid

**HEALTH HAZARDS:** CAUTION! May cause irritation to eyes.  
**PHYSICAL HAZARDS:** May release toxic fumes if burned.  
**ENVIRONMENTAL HAZARDS:** Moderately toxic to aquatic organisms and phytotoxic to many non-target terrestrial plant species.



## 3. Composition/Ingredient Information:

### Chemical Names:

| Active Ingredients:                                     | CAS Number | Percentage by Weight |
|---|------------|----------------------|
| Methyl 2-chloro-9-hydroxy-9H-fluorene-9-carboxylate     | 2536-31-4  | 0.48%                |
| Methyl 2,7-dichloro-9-hydroxy-9H-fluorene-9-carboxylate | 21634-96-8 | 0.09%                |
| Methyl 9-hydroxy-9H-fluorene-9-carboxylate              | 1216-44-0  | 0.12%                |
| 3,6-dichloro-o-anisic acid                              | 1918-00-9  | 0.13%                |

### Common Name for Active Ingredients:

|                                  |            |       |
|----------------------------------|------------|-------|
| Chlorflurenol Methyl Ester (CFM) | 37339-61-0 | 0.69% |
| Dicamba                          | 1918-00-9  | 0.13% |

### Other Ingredients:

|                                  |     |        |
|----------------------------------|-----|--------|
| Organic solvents and emulsifiers | N/A | 99.18% |
|----------------------------------|-----|--------|

\*Inert ingredient identity is confidential business information

## 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.
- Call a poison control center or doctor for treatment advice.

### If Swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have a person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.

### 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.

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

**NOTE TO PHYSICIAN:** The compound does not cause any definite symptoms that would be diagnostic. No specific antidote. Treat symptomatically.

## 5. Fire Fighting Measures:

**EXTINGUISHING MEDIA:** Foam, dry chemical, water.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** Burning may produce irritating or poisonous products of decomposition.

**SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS:** Wear self contained breathing apparatus for fire fighting if necessary.

## 6. Accidental Release Measures:

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

**PERSONAL PRECAUTIONS:** Follow protective measures indicated in Section 8: Exposure Control/Personal Protection for both emergency and non emergency personnel.

**ENVIRONMENTAL PRECAUTIONS:** Keep spills from entering lakes or waterways.

**METHODS FOR CLEANING UP:** Pick up or shovel material into waste container taking care to minimize dust. Wet down if necessary to control dust. Vacuum clean dust

## 7. Handling and Storage:

**HANDLING AND STORAGE PRECAUTIONS:**

**HANDLING:** Avoid eye and skin contact and avoid breathing dusts if generated. Good housekeeping is recommended to prevent the accumulation of dust. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Avoid unintentional spilling or release into environment.

**STORAGE:** Store in original container in a locked storage area. Keep container closed and away from food, feedstuffs and domestic water supplies.

## 8. Exposure Control/Personal Protection:

**EXPOSURE GUIDELINES:** Occupational exposure limit (OEL) and biological limit values (BLV) for Chlorflurenol – CAS No.: 37339-61-0 and Dicamba – CAS No.: 1918-00-9 not established. Control banding approach not available.

**APPROPRIATE ENGINEERING CONTROLS:** Product is to be used out of doors with good ambient ventilation. Do not allow children or pets into treated area until after the product has been watered in.

**WORK/HYGIENE PRACTICES:** Emergency shower and eyewash facilities should be in close proximity (ANSI Z358.1). Launder contaminated clothing and wash hands and face after use. Discard clothing or 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/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

The following personal protective equipment should be used in conjunction with exposure control measures

**EYE/FACE PROTECTION:** Use safety glasses when using this product.

**SKIN PROTECTION:** Wear long pants, long sleeved shirt, socks and shoes.

**RESPIRATORY PROTECTION:** If dusty conditions exist, wear a face mask approved for use with dusts such as 3M 8511 N-95 or equivalent.

**HAND PROTECTION:** Wear rubber gloves.

## 9. Physical & Chemical Properties:

|   |                               |
|---|-------------------------------|
| <b>APPEARANCE:</b>                              | Light brown crystalline solid |
| <b>ODOR:</b>                                    | No odor                       |
| <b>ODOR THRESHOLD:</b>                          | NA                            |
| <b>pH:</b>                                      | NA                            |
| <b>MELTING POINT:</b>                           | NA                            |
| <b>BOILING POINT:</b>                           | NA                            |
| <b>FLASH POINT:</b>                             | NA                            |
| <b>EVAPORATION RATE:</b>                        | ND                            |
| <b>FLAMMABILITY (solid, gas):</b>               | Not flammable                 |
| <b>LOWER FLAMMABILITY LIMIT:</b>                | NA                            |
| <b>UPPER FLAMMABILITY LIMIT:</b>                | NA                            |
| <b>VAPOR PRESSURE:</b>                          | NA                            |
| <b>VAPOR DENSITY:</b>                           | NA                            |
| <b>RELATIVE DENSITY (H<sub>2</sub>O = 1):</b>   | 0.16 g/ml                     |
| <b>SOLUBILITY:</b>                              | Forms a suspension in water   |
| <b>PARTITION COEFFICIENT (n-octanol/water):</b> | NA                            |
| <b>AUTO-IGNITION TEMPERATURE:</b>               | ND                            |
| <b>DECOMPOSITION TEMPERATURE:</b>               | ND                            |
| <b>VISCOSITY:</b>                               | NA                            |

## 10. Stability & Reactivity:

**REACTIVITY:** ND

**STABILITY:** The product is stable under normal storage conditions.

**HAZARDOUS REACTIONS:** Polymerization will not occur

**CONDITIONS TO AVOID:** ND

**INCOMPATIBLE MATERIALS:** None in designed use.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides and possibly hydrochloric acid.

## 11. Toxicological Information:

### Toxicological Data for Repar Weed and Feed:

#### ROUTES OF EXPOSURE:

**INHALATION:** Overexposure to dust may cause transitory lung and upper respiratory irritation, burning and coughing.

**SKIN:** Skin contact in hot, humid weather can cause irritation and rash.

**EYE CONTACT:** Dusts may cause irritation and rash.

**INGESTION:** Harmful if swallowed, may irritate and/or damage the G.I. system.

Specific target organ toxicity (STOT):

STOT-single exposure: ND

STOT-repeated exposure: ND

Aspiration hazard: ND

**ADVERSE EFFECTS AND SYMPTOMS:** ND

**DELAYED OR IMMEDIATE EFFECTS FROM SHORT OR LONG TERM EXPOSURE:** ND

**NUMERICAL MEASURES OF TOXICITY:** ND

**INTERACTIVE EFFECTS:** ND

### Toxicological Data for CFM Technical:

Oral LD<sub>50</sub> (rat): >5,000 mg/kg bw

Dermal LD<sub>50</sub> (rabbit): >5,000 mg/kg bw

Inhalation LC<sub>50</sub> (rat): >5.07 mg/L

Skin irritation (rabbit): Slightly irritating

Skin sensitization (guinea pig): Not a sensitizer

Eye irritation (rabbit): Minimally irritating

Mutagenicity: Non-mutagenic

Carcinogenicity: Not a carcinogen.

Reproductive Toxicity: Does not show any developmental toxicity.

### Toxicological Data for Dicamba Technical:

Oral LD<sub>50</sub> (rat): >1707 mg/kg bw

Dermal LD<sub>50</sub> (rabbit): >2000 mg/kg bw

Inhalation 4h LC<sub>50</sub> (rat): 9.6 mg/l

Skin irritation (rabbit): Slight irritant

Skin sensitization: Non skin sensitizer

Eye irritation (rabbit): Moderate Irritant

Mutagenicity: No evidence of mutagenic affects

Carcinogenicity: Not listed as carcinogenic

Reproductive Toxicity: ND

## 12. Ecological Information:

### Ecological Data for CFM Technical:

LC<sub>50</sub> (96 h) Bluegill sunfish 7.45 mg/L

EC<sub>50</sub> (48 h) Daphnia magna 22.4 mg/L

LC<sub>50</sub> (96 h) Rainbow trout 5.91 ml/kg

**PERSISTENCE AND DEGRADABILITY:** 99% of CFM is gone from soil after application. Hydrolyzes readily and rapidly under basic conditions.

**BIOACCUMULATIVE POTENTIAL:** ND

**MOBILITY IN SOIL:** Movement of CFM in soil is slight while degradation product is very mobile.

### Ecological Data for Dicamba Technical:

96 h LC<sub>50</sub> Rainbow trout 135 ppm

96 h LC<sub>50</sub> Bluegill sunfish 135 ppm

48 h LC<sub>50</sub> Daphnia 110 mg/L

8 day LD<sub>50</sub> Bobwhite quail >10000 mg/kg diet

8 day LD<sub>50</sub> Mallard ducks >10000 mg/kg diet

LD<sub>50</sub> Honey bee >100µg/bee

**PERSISTENCE AND DEGRADABILITY:** ND

**BIOACCUMULATIVE POTENTIAL:** ND

**MOBILITY IN SOIL:** ND

## 13. Disposal Considerations:

**PESTICIDE DISPOSAL:** Do not contaminate water, food, or feed by disposal. Open dumping is prohibited. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixtures 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 DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

## 14. Transport Information:

**SHIPPING DESCRIPTION:** Not regulated by USDOT  
(Ground transport)

**DOT HAZARD CLASS:** N/A

**IDENTIFICATION NUMBER:** N/A

**DOT PACKING GROUP:** N/A

## 15. Regulatory Information:

This chemical is a pesticide product registered with the U.S. Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the pesticide label:

#### CAUTION

Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

## 16. Other Information:

|                          |  |   |
|--------------------------|--|---|
| HMIS<br>HAZARD<br>RATING | HEALTH   | 2 |
|                          | FLAMMABILITY                                     | 0 |
|                          | PHYSICAL HAZARD                                  | 0 |
|                          | 4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal |   |

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

**REVISED DATE:** August 23, 2016

**REFERENCE:** Revised for GHS compliance