SAFETY DATA SHEET

1. Product Identification:

Product Name: MAINTAIN® CF 125
SDS Number: RC001

| Manufacturer: | Repair Corporation |
| Manufacturer: | 202-223-1424 |
| Address: | P.O. Box 4321 |
| City, State, Zip: | Silver Spring, MD 20914 |
| 24 Hour Emergency Phone (CHEMTREC): | 1-800-424-9300 |
| Product Use: | Plant growth regulator & herbicide |

2. Health Hazard(s) Identification:

Warning
Causes substantial but temporary eye injury.
Harmful if swallowed.

ROUTES OF EXPOSURE
INHALATION: Breathing of spray mist is expected to be a primary route of exposure and may produce nose, throat and respiratory tract irritation.
SKIN: Dermal contact is expected to be a primary route of exposure and can cause skin irritation.
Not considered a sensitizing agent.
EYE CONTACT: May result in corrosion to the eyes or irreversible eye damage.
INGESTION: May cause dulling of senses.

3. Composition/Ingredient Information:

Chemical Names:

<table>
<thead>
<tr>
<th>Active Ingredients:</th>
<th>CAS Number</th>
<th>Percentage by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl 2-chloro-9-hydroxy-9H-fluorene-9-carboxylate</td>
<td>2536-31-4</td>
<td>8.8%</td>
</tr>
<tr>
<td>Methyl 2,7-dichloro-9-hydroxy-9H-fluorene-9-carboxylate</td>
<td>21634-96-8</td>
<td>1.6%</td>
</tr>
<tr>
<td>Methyl 9-hydroxy-9H-fluorene-9-carboxylate</td>
<td>1216-44-0</td>
<td>2.1%</td>
</tr>
</tbody>
</table>

Common Name for Mixture of Active Ingredients:
Chlorflurenol-Methyl (Chlorflurenol Methyl Ester) 37339-61-0

Other Ingredients: Organic solvents and emulsifiers N/A 87.5%

Molecular Formula for Mixture of Active Ingredients:
C₁₅H₁₂O₃ + C₁₅H₁₁ClO₃ + C₁₅H₁₀Cl₂O₃

CAS NUMBER | NAME | Methyl-2-chloro-9-hydroxyfluorene-(9)-carboxylate

EXPOSURE LIMITS

PEL: Not Established
TLV: Not Established

COMMON NAME: Chlorflurenol methyl ester

All components of this product that are required to be on the TSCA Inventory are listed on the inventory.

4. First Aid Measures:

If in Eyes:
- Hold eye open and rinse slowly with a steady, gentle stream of 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 physician for treatment advice.

If Swallowed:
- Immediately call a poison control center or doctor.
- Do not give any liquid to the person.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If On Skin Or Clothing:
- Take off contaminated clothing.
- Wash skin with plenty of water for 15-20 minutes.
- Call a poison control center or physician 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 physician for treatment advice.

NOTE TO PHYSICIAN: No specific antidote. Treat symptomatically. Contains petroleum distillate. Vomiting may cause aspiration pneumonia. Symptoms of Poisoning: The compound does not cause any definite symptoms that would be diagnostic. Contact with the eyes may cause irritation.

5. Fire Fighting Measures:

FLASH POINT: 143.9°F or 62.1°C (COC)
AUTOIGNITION TEMPERATURE: 454°C
FLAMMABLE LIMITS IN AIR, % BY VOLUME - UPPER: N D LOWER: N D

EXTINGUISHING MEDIA: In case of fire or smoke, call the fire department. Do not attempt to extinguish the fire without a self contained breathing apparatus (SCBA). Do not let the fire burn. Flood with copious amounts of water. Use water, fog, foam, or CO₂.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear full protective clothing and self-contained breathing apparatus (SCBA) to protect against inhalation of combustion products.

UNUSUAL FIRE AND EXPLOSION HAZARD: Emits toxic fumes of carbon monoxide and carbon dioxide. During fire, hydrochloric acid may be formed.

6. Accidental Release Measures:

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Follow protective measures indicated in the Special Protection Section of this MSDS.

Absorb on inert material. Shovel into containers for proper disposal. Avoid personal contact.

7. Handling and Storage:

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

HANDLING AND STORAGE PRECAUTIONS: Do not get into eyes, on skin, on clothing. Wear goggles or face shield and chemical resistant gloves when handling. Avoid breathing spray mist or fumes. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

STORAGE: Store in cool, dry area away from heat or open flame.

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Do not reuse empty container. Do not store below 4°C.

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

DIRECTIONS FOR USE: It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product through any irrigation system. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.
8. Exposure Control/Personal Protection:

VENTILATION REQUIREMENTS: Sufficient ventilation to minimize exposure to vapor.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT (PPE)
Applicators and other handlers must wear:
A. Coveralls over long-sleeved shirt and long pants.
B. Chemical-resistant gloves, such as barrier laminate or viton
C. Shoes plus socks
D. Protective eye wear

OTHER CLOTHING AND EQUIPMENT: 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/keeping PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

RESPIRATORY: NIOSH/MSHA approved respirator, following manufacturer’s recommendations, should be used as a precautionary measure where airborne contaminants may occur. (OSHA Standard 29 CFR 1910. 134).

EYE: Wear chemical safety goggles (ANSI Z87.1).

GLOVES: Wear chemical resistant gloves.

9. Physical & Chemical Properties:

APPEARANCE: Amber colored liquid
ODOR: Lactone odor
MELTING POINT: NA
BOILING POINT: ND
SOLUBILITY: NA

SOLUBILITY: Slightly soluble in methanol & acetone
VAPOR PRESSURE @20° C: 4mm
ODOR THRESHOLD (ppm): No data
VAPOR DENSITY (Air = 1): ND
pH: ND
FREEZING POINT: Under -35° C

10. Stability & Reactivity:

STABILITY: Stable
INCOMPATIBILITY: Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes of carbon monoxide, carbon dioxide and possibly hydrochloric acid.

11. Toxicological Information:

Oral LD50 (rat): 3.16 ml/kg or 3196 mg/kg
Dermal LD50 (rabbit): > 4.64 ml/kg or 4686 mg/kg
Inhalation (rats): 68.7 mg/l over 60 minutes gave no mortality
Skin irritation (rabbit): Moderate Irritant
Eye irritation (rabbit): Irritant

Administration of up to 300 ppm (active ingredient) in the diet of beagles for two years produced no detectable adverse effects. Up to 1000 ppm (active ingredient) in the diet of rats for 52 weeks produced no detectable adverse effects. Overexposure to the solvents present in the formulation may cause adverse effects to the central nervous system.

12. Ecological Information:

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, wash-water, or rinseate.

ENVIRONMENTAL EFFECTS:
LC50 | Trout | 2.5-5.5 ppm
LC50 | Goldfish | 13.5 ppm
LD50 | Bobwhite quail | 2.38 ml/kg

13. Disposal Considerations:

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

WASTE DISPOSAL METHOD: Pesticides wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinseate 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.

PESTICIDE DISPOSAL: Pesticides wastes are acutely hazardous. Open dumping is prohibited. Improper disposal of excess pesticide, spray mixture, or rinseate 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: Non-refillable container. Do not reseal or refill empty container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinseate into application equipment or a mix tank or store rinseate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

14: Transport Information:

DOT PROPER SHIPPING NAME: COMBUSTIBLE LIQUID, N.O.S.

This product is not regulated or classified by IATA/ICAO or IMO as hazardous materials or dangerous goods offered for transport based on the product’s flash point.

There are no requirements for the labeling, marking, placarding, and packaging of shipments of this product that are offered for transport by rail, air, highway, or ocean vessel.

15: Regulatory Information:

This chemical is a pesticide product registered by the 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:

WARNING
Causes Substantial but temporary eye injury. Harmful if swallowed.

16. Other Information:

Osha Standard 29 CFR §1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to your employees.

PESTICIDE REGISTRATION INFORMATION:
U.S. EPA Registration No. 69361-6
For additional Non-Emergency health, safety, or environmental information, telephone (202) 223-1424, or write to: REPAR CORPORATION
P.O. Box 4321 Silver Spring, MD. 20914
Attention: Dr. N. Mandava

CAS = Chemical Abstract Service
ND = No relevant information found or not available
PEL = OSHA Permissible Exposure Limit
TLV = ACGIH Threshold Limit Value
Current NA = Not Applicable
* = See Chronic Effects

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