

Donlar

This substance is not a hazardous chemical under the OSHA Hazard Communication Standard, 29 C.F.R. 1910.1200.

Donlar is providing this Material Safety Data Sheet on a voluntary basis, solely as an informational service to its customers.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AmiSorb(R)

ACTIVE INGREDIENT: Carpramid

DESCRIPTION: Anionic Amino Acid Polymer Salt

DATE: 10/30/97

MANUFACTURER: DONLAR AGRICULTURAL PRODUCTS

6502 SOUTH ARCHER ROAD

BEDFORD PARK, IL 60501

FOR EMERGENCY OR ADDITIONAL INFORMATION 8:00 a.m. - 5:00

p.m. CST: 708-563-9200

FOR AFTER-HOUR EMERGENCIES: 800-424-9300 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	% BY WEIGHT
Copoly-[(3-carboxypropionamide) (2-(carboxymethyl)acetamide)], sodium salt	94525-01-6	38-41

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause irritation to eyes.

POTENTIAL HEALTH EFFECTS:

INHALATION: Not a likely route of exposure.

EYE CONTACT: May cause irritation upon direct contact with liquid.

SKIN CONTACT: Not known to produce irritation as determined by animal testing.

INGESTION: Not known to be harmful. May cause nausea, vomiting and diarrhea.

Refer to Section 11 for toxicology information.

4. FIRST AID MEASURES

INHALATION: Remove to fresh air.

EYE CONTACT: Immediately flush with water for a minimum of 15 minutes. Contact a physician if irritation persists.

SKIN CONTACT: Flush with large amounts of water. Use soap if available. Launder clothing prior to reuse.

INGESTION: Do not induce vomiting. Give large quantities of water. Contact a physician.

5. FIRE FIGHTING MEASURES

FLASH POINT: None (PMCC)

FLAMMABLE LIMITS: Not applicable

AUTOIGNITION TEMPERATURE: Not available

GENERAL HAZARD: This product would not be expected to burn unless all water has evaporated or boiled away.

FIRE FIGHTING INSTRUCTION: Use extinguishing media appropriate for surrounding materials.

6. ACCIDENTAL RELEASE MEASURES

Contain spill with an absorbent material. Dispose of in accordance with applicable federal, state and local regulations. Product itself is classified as a non-hazardous polymer waste for disposal purposes.

7. HANDLING AND STORAGE

Store product at ambient temperature. Keep containers closed.

16. OTHER INFORMATION

SECTIONS REVISED: Section 1, Company Name

MSDS AUTHOR: Richard Ruthe, Manager, Environmental Affairs

This product's Material Safety Data Sheet provides environmental, health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be

AMISORB

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: None special required. General ventilation is adequate.

PERSONAL PROTECTION:

RESPIRATORY PROTECTION: Not required under normal use and conditions.

EYE PROTECTION: Chemical (splash-proof) goggles

HAND PROTECTION: Butyl rubber gloves

ADDITIONAL PROTECTION: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR/Form: Amber liquid

pH: 8.3 - 9.5 @ 23 deg C (ASTM D-1298)

SPECIFIC GRAVITY: 1.26-1.27 @ 23 deg C

FLASH POINT: None (PMCC)

VISCOSITY: 100-140 cps (mPa-s)

FREEZE POINT: -10 to -15 deg C

REFRACTIVE INDEX: 1.418-1.422 @ 20 deg C

SOLUBILITY: Very soluble in water

MOLECULAR WEIGHT: Approximately 5000

10. STABILITY AND REACTIVITY

GENERAL: This product is stable.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Possible interactions with strong oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD50 RAT: greater than 5000 mg/kg (non-toxic)

ACUTE INHALATION LC50 RAT: greater than 5.1 mg/l (4-hour)

Primary irritation index (PPI) is 0 as determined by primary dermal irritation tests conducted in New Zealand Albino rabbits. No erythema, edema, or abnormal signs were indicated. No corneal opacities or irritation were noted in primary eye irritation tests conducted in New Zealand Albino rabbits.

12. ECOLOGICAL INFORMATION

Based on tests conducted according to OECD guidelines, this product can be regarded as inherently biodegradable.

Product contains no phosphates or preservatives.

48-HOUR ACUTE TOXICITY LC50 VALUES: 1792 mg/l (Daphnia pulex) (water flea)

2117 mg/l (Fathead minnow)

NO-OBSERVED EFFECT CONCENTRATION: 62 mg/l (Selenastrum capricornutum) (algae)

LOWEST OBSERVED EFFECT CONC.: 125 mg/l (Selenastrum capricornutum)

13. DISPOSAL INFORMATION

Material is classified as a non-hazardous polymer waste for disposal purposes. Contact a licensed chemical waste hauler to ensure proper disposal.

14. TRANSPORT INFORMATION

Material is classified as non-hazardous under Department of Transportation regulations.

15. REGULATOR INFORMATION

TSCA: This product and its components are listed on the TSCA Inventory.

CERCLA: Not reportable.

SARA TITLE III:

311/312 HAZARD CATEGORIES: Non-hazardous

313 REPORTABLE INGREDIENTS: None

informed of the recommended safety precautions.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Donlar(R) Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.

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COMPAS Code: 24500011