



RAINBOW TECHNOLOGY CORPORATION
Specialists in Utility Chemicals & Safety Items

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Woman-Owned Business Enterprise - Founded 1971

Safety Data Sheet (SDS)

1. CHEMICAL PRODUCT INFORMATION

Product Name: Rainbow® Johnson Grass & Weed Killer Foam
Product No.: 40424
EPA Reg. No.: 87093-3-13283
Manufacturer: Rainbow Technology Corporation 1-800-637-6047
Contact: Larry Joe Steeley, Jr.
Emergency Phone No. (24 Hrs.): **CHEM-TEL 1-800-255-3924**
SDS Issue Date: October 10, 2013
SDS Revision Date: May 21, 2014

2. HEALTH HAZARD DATA

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Pinkish-red, creamy smooth liquid in aerosol container

IMMEDIATE CONCERNS: Causes moderate eye irritation. Avoid contact with eyes or clothing wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
Keep out of reach of children.

POTENTIAL HEALTH EFFECTS

EYES: This substance causes moderate eye irritation as indicated by possible discomfort, tearing, swelling, redness and blurred vision. See TOXICOLOGICAL INFORMATION, Section 11.

SKIN: This substance is not expected to cause skin irritation. See TOXICOLOGICAL INFORMATION, Section 11.

INGESTION: If swallowed, this product may cause gastrointestinal tract irritation. See TOXICOLOGICAL INFORMATION, Section 11.

INHALATION: If inhaled, this substance is considered practically non-toxic to internal organs. This substance may be irritating if inhaled. See TOXICOLOGICAL INFORMATION, Section 11.

COMMENTS HEALTH: Inhalation and skin contact are expected to be the primary routes of occupational exposure for Rainbow® Johnson Grass & Weed Killer Foam. Occupational exposure to this material has not been reported to cause significant adverse health effects. However, swallowing of a similar, but more concentrated formulation, has been reported to produce gastrointestinal discomfort, nausea, vomiting and diarrhea.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

ACTIVE INGREDIENTS	CAS NUMBER	PERCENT
Isopropylamine Salt of Glyphosate	38641-94-0	<1.00%
Pelargonic Acid	112-05-0	1.00%

4. FIRST AID MEASURES

EYES: Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Call a physician if irritation persists.

SKIN: No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

INGESTION: If swallowed, immediately telephone a poison control center, emergency treatment center or a physician for advice. DO NOT make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then immediately take person and product container, with label, to an emergency treatment center.

INHALATION: Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required. If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

ADDITIONAL INFORMATION: In case of medical emergencies involving this product, call day or night, 1-800-255-3924.

5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD: >200°F TAG CC

EXTINGUISHING MEDIA: Water spray, foam, CO₂, dry chemical or any class B extinguishing agent.

FIRE FIGHTING PROCEDURES: For fires involving this material, do not enter any enclosed or confined firespace without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Equipment should be thoroughly cleaned after use. Keep containers cool with a water spray. Read the entire document.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Soak up spilled material with paper towels and discard in trash.

LARGE SPILL: Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgite, bentonite or other absorbent clays. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13. "DISPOSAL". Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water.

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For liquid spills that soak into the ground, contact the applicable Federal, State and/or County Health Department for disposal recommendations. If disposal is required refer to Section 13, "DISPOSAL CONSIDERATIONS" for instructions.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section 13, "DISPOSAL CONSIDERATIONS". Any recovered spilled liquid should be similarly collected and disposed of.

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

GENERAL PROCEDURES: Observe all protection and safety precautions when cleaning up spills -- see Section 8, "EXPOSURE CONTROLS/PERSONAL PROTECTION". For help with any spill, leak, fire or exposure involving this material, call day or night 1-800-255-3924.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. Store in accordance with NFPA 30B for a Level I aerosol. DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. CONTAINER UNDER PRESSURE. Exposure to heat or prolonged exposure to sun may cause container to burst. Do not puncture, incinerate or store above 130°F. Store in a secure location. Always store pesticides in the original container away from food and pet food.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is necessary.

PERSONAL PROTECTION

EYES AND FACE: For application of product in accordance with label instructions, no special eye protection is needed.

Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

SKIN: Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

RESPIRATORY: Avoid breathing vapor or mist. Use NIOSH/MSHA-approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult respirator manufacturer to determine appropriate type equipment for given application.

Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.

For application of product in accordance with label instructions, no special respiratory protection is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Aerosol

APPEARANCE: Cloudy, red liquid in aerosol canister

pH: ~ 6.7 to 7.1

SOLUBILITY IN WATER: Soluble

DENSITY: 8.08 lbs./gal. at 20°C

SPECIFIC GRAVITY: 1.0124 gr/cc

VISCOSITY: Same as water.

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: YES

HAZARDOUS DECOMPOSITION: NONE

11. TOXICOLOGICAL INFORMATION

ACUTE:

EYES: Rabbit - moderately irritating, irritation cleared by test day 7. EPA FIFRA toxicity category - III.

DERMAL LD₅₀: The hazard evaluation for this product was based on the non-aerosol form of the product. Practically non-toxic (Rat LD₅₀ >5000 mg/kg). Non-irritating to skin (Rabbits). EPA FIFRA toxicity category - IV.

ORAL LD₅₀: The hazard evaluation for this product was based on the non-aerosol form of the product. Practically non-toxic (Rat LD₅₀ >5000 mg/kg). EPA FIFRA toxicity category - IV.

INHALATION LC₅₀: The hazard evaluation for this product was based on the non-aerosol form of the product. Practically non-toxic (Rat 4-hr LC₅₀ >10mg/L). EPA FIFRA toxicity category - IV.

SENSITIZATION: Guinea pig - no evidence of allergic skin reactions.

SUBCHRONIC: Data from glyphosate laboratory toxicology studies were conducted with a formulation comprised of 62% isopropylamine salt of glyphosate (MON 0139).

Rabbits - 3 week dermal: Repeated daily primarily resulted in slight skin irritation.

Dogs - 6 month feeding: Only slight body weight changes noted.

Additional toxicity information is available on glyphosate, the active herbicidal ingredient of MON 0139.

Rats - 90 day feeding: No treatment related effects.

Mice - 90 day feeding: Decreased weight gains at the high dose level group animals.

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CARCINOGENICITY:

CARCINOGENICITY COMMENTS: GLYPHOSATE: Glyphosate is not considered to be a carcinogen. Glyphosate did not produce tumors in any of the long-term toxicology studies. EPA has classified glyphosate in category "E" (Evidence of noncarcinogenicity for humans).

Mice: 2-year feeding study. Reduced body weight gain and effects on liver tissues were observed at high dose levels.

Rats: 2-year feeding study. Reduced body weight gain and eye changes were observed at the high dose level in one study, while no treatment-related effects occurred in a second study conducted at lower dose levels.

Dogs: No adverse effects were observed in feeding studies with dogs.

TERATOGENICITY: GLYPHOSATE: No evidence of teratogenic effects. Results of rat and rabbit teratology studies indicate that no birth defects were noted. This included dose levels of glyphosate that were maternally toxic.

REPRODUCTIVE TOXIN: GLYPHOSATE: No evidence of adverse reproductive effects. Glyphosate was fed continuously to rats at very high dose levels for 2 successive generations. Toxicity was reported in offspring from the high dose, a level which also produced adverse effects on the mothers. In a 3-generation study conducted at lower dose levels, no effects were seen on the ability of male or female rats to reproduce.

MUTAGENICITY: GLYPHOSATE: Glyphosate has not produced any genetic changes in various mutagenicity tests involving in vivo animals or in vitro cellular studies.

COMMENTS: See Section 16, "OTHER INFORMATION" for definition of EPA FIFRA toxicity categories.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Studies performed with a concentrated solution of the isopropylamine salt of glyphosate indicate the following:

MON 0139 Technical (62%):

48-hr LC₅₀ Daphnia: 930 mg/L, Practically Nontoxic
96-hr LC₅₀ Bluegill: >1,000 mg/L, Practically Nontoxic
96-hr LC₅₀ Trout: >1,000 mg/L, Practically Nontoxic
96-hr LC₅₀ Carp: >10,000 ppm, Practically Nontoxic

13. DISPOSAL CONSIDERATIONS

FOR LARGE SPILLS: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures.

PRODUCT DISPOSAL: Discard in trash.

EMPTY CONTAINER: If recycling is not available, replace cap and discard in trash.

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14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

DOT SHIPPING NAME: Aerosols, Limited Quantity

HAZARD CLASS: Class 2.2 (non-flammable gas)

UN/ID NUMBER: UN 1950

PACKING GROUP: No

U.S. SURFACE FREIGHT CLASS: NMFC NBR. 102120

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Consumer Commodity

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

UNITED STATES:

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA

ACUTE: YES; CHRONIC: NO; FIRE: NO; REACTIVITY: NO; PRESSURE GENERATING: NO

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All non-FIFRA-regulated components are on the US EPA's TSCA Inventory List.

FIFRA REGULATION

Signal Word: CAUTION

First Aid

If in Eyes: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing eye. Call a physician or poison control center for treatment advice.

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

You may also contact CHEMTEL at 1-800-255-3924 for emergency medical treatment information. This product is identified as Rainbow® Johnson Grass & Weed Killer Foam, EPA Reg. No. 87093-3-13283.

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Environmental Hazards

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

Physical or Chemical Hazards

Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Do not mix or allow product to come into contact with an oxidizing agent. Hazardous chemical reaction may occur.

Storage and Disposal

Pesticide Storage: Store in a secure location away from heat and open flame. Store in a cool, dry area. Always store pesticides in the original container away from food and pet food.

Pesticide Disposal and Container Handling: Do not puncture or incinerate! non-refillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling, if available. **DO NOT PUNCTURE!** **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

STATE REGULATIONS

PROPOSITION 65 STATEMENT: No ingredients on list.

16. OTHER INFORMATION

HMIS CODES

FIRE: 0 HEALTH: 1 REACTIVITY: 0 PROTECTION: -

NFPA CODES

FIRE: 0 HEALTH: 1 REACTIVITY: 0 SPECIAL: -

APPROVAL DATE: 5/21/2014

REVISION SUMMARY Revision #: 2

MANUFACTURER SUPPLEMENTAL NOTES: EPA FIFRA (Federal Insecticide, Fungicide and Rodenticide Act) Toxicity Categories: The EPA toxicity categories are based on the results of the acute toxicology studies. The toxicology findings are compared to the FIFRA criteria to determine the product label signal word, precautionary and first aid statements. The EPA FIFRA toxicity category summary:

- I DANGER Most toxic and irritating
- II WARNING
- III CAUTION
- IV CAUTION Least toxic and irritating

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, release and disposal, and is not to be considered as a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text of this SDS. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers.