



# Safety Data Sheet (SDS)

## SECTION 1 - IDENTIFICATION

Distributor ..... Rainbow Technology Corporation (800) 637-6047  
 Emergency Phone # (24 Hours) ..... Chem-Tel, Inc. (800) 255-3924  
 Contact Person ..... Larry Joe Steeley, Jr.  
**Trade Name** ..... **Rainbow Weed Killer, EPA Reg. No. 13283-18**  
 Product Numbers ..... 4037, 4037S, 4037P  
 Chemical Name ..... Proprietary  
 Formula ..... Proprietary  
 Issue Date ..... April 4, 2016  
 Replaces SDS Dated ..... June 8, 2015

## SECTION 2 - HAZARD IDENTIFICATION

**CLASSIFICATION:** ..... Not classified as hazardous in accordance with OSHA Hazard Communication Standard (29 C.F.R. 1910.1200).  
 See Section 15 for additional information.  
**SIGNAL WORD:** ..... None  
**PICTOGRAM(S):** ..... Not Applicable  
**HAZARD STATEMENT(S):** ..... None  
**PRECAUTIONARY STATEMENT(S):** ..... None  
**HAZARDS NOT OTHERWISE CLASSIFIED:** ..... None Known

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS. NO.	%
Tebuthiuron: N-(5-(1, 1-dimethylethyl)-1, 3, 4-thiadiazol-2-yl)-N, N'-dimethylurea	34014-18-1	2.00
Diuron: [3-(3, 4-dichlorophenyl)-1, 1-dimethylurea]	330-54-1	6.00

## 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.
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- 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.
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- IF INHALED:**
- Move person to fresh air.
  - If person is not breathing, call 911 or ambulance then give artificial respiration, preferable mouth to mouth if possible.
  - Call a poison control center or doctor for further treatment advice.
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- 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 poison control center or doctor.
  - Do not give anything by mouth to an unconscious person.

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## SECTION 5 - FIRE FIGHTING MEASURES

**FIRE EXTINGUISHING MEDIA:** Considered non-flammable. Water.

**FIRE CONTROL TACTICS:** Do not allow water run-off from fire site to enter nearby streams, ponds or lakes.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### SPILL OR LEAK PROCEDURES:

Clean up promptly. Do not flush with water. Pick up dry by sweeping or other effective means. Return undamaged material to original container. Place damaged, unusable material in a landfill approved for pesticides in accordance with applicable regulations. If spill is near trees or other valuable plants, remove top two inches of soil after initial cleanup.

## SECTION 7 - HANDLING AND STORAGE

DO NOT contaminate water, food or feed by storage or disposal.

Store product in original container only, away from other pesticides, fertilizer, food, or feed.

Avoid breathing vapors or mist. Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

### OCCUPATIONAL EXPOSURE LIMITS:

	OSHA	ACGIH
Diuron: (3-(3, 4-dichlorophenyl)-1, 1-dimethylurea (330-54-1))	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Particles not otherwise specified	15 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup> (inhalable)
	5 mg/m <sup>3</sup> (respirable)	3 mg/m <sup>3</sup> (respirable)

### EXPOSURE CONTROL METHODS:

During formulation of this product, the following good industrial hygiene practice is recommended: Chemical goggles or some other form of eye protection should be worn to prevent exposure to the eyes. Wear rubber gloves when handling this material. An apron or impermeable covering should also be worn to prevent contact with the skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. For end-users, please refer to the product label for personal protective clothing/equipment.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

#### RESPIRATORY PROTECTION:

Applicators using tractor drawn spreaders and all loaders must wear a NIOSH-approved particulate filtering respirator equipped with N, R, or P class filter media. The respirator should have a NIOSH approval number prefix TC-84A. It is recommended that you require the respirator wearer to be fit tested, and trained in the use, maintenance, and limitations of the respirator.

#### HAND PROTECTION:

Chemical resistant gloves made of any waterproof material such as polyethylene or polyvinylchloride for all mixers and loaders plus applicators using handheld equipment.

#### EYE PROTECTION:

Chemical goggles or some other form of eye protection.

#### BODY PROTECTION:

Long-sleeved shirt, long pants, and shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Users/Handlers of this product must wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Users/Handlers must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users/Handlers must 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

<b>APPEARANCE:</b>	Grayish white/light tan granules
<b>ODOR:</b>	Light musty odor
<b>ODOR THRESHOLD:</b>	Not None
<b>FLASH POINT:</b>	Not Applicable
<b>BOILING POINT:</b>	Not Applicable
<b>MELTING POINT:</b>	Not Applicable
<b>VAPOR PRESSURE:</b>	Tebuthiuron: $2 \times 10^{-6}$ mm Hg at 25° C Diuron: $0.31 \times 10^{-5}$ mm Hg at 50° C
<b>BULK DENSITY:</b>	2.48 g/mL
<b>% VOLATILITY (BY VOL.):</b>	Not Applicable
<b>OCTANOL /H<sub>2</sub>O PARTITION COEF.:</b>	Not Applicable
<b>pH:</b>	8.56
<b>SATURATION IN AIR (BY VOL.):</b>	Not Applicable

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<b>FLAMMABILITY (SOLID, GAS):</b>	Not Known
<b>SOLUBILITY IN WATER:</b>	Tebuthiuron: .23 g/100 ml at 25° C Diuron: 42 ppm at 25° C
<b>UPPER/LOWER FLAMMABILITY LIMITS:</b>	None Known
<b>VAPOR DENSITY:</b>	Not Applicable
<b>AUTO-IGNITION TEMPERATURE:</b>	Not Applicable
<b>DECOMPOSITION TEMPERATURE:</b>	Not Applicable
<b>SPECIFIC GRAVITY:</b>	1.33

## SECTION 10 - STABILITY AND REACTIVITY

<b>STABILITY:</b>	Stable under normal storage conditions.
<b>CONDITIONS TO AVOID:</b>	Extreme heat
<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b>	Not known to occur
<b>INCOMPATIBLE MATERIALS:</b>	
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Oxides of nitrogen, sulfur, and carbon may be formed if product is involved in fire.

## SECTION 11 - TOXICOLOGICAL INFORMATION

<b>ROUTES OF EXPOSURE:</b>	Inhalation and Dermal
<b>ACUTE TOXICITY/IRRITATION STUDIES:</b>	
<b>INGESTION:</b>	LD <sub>50</sub> > 5,000 mg/kg (Rat)
<b>DERMAL:</b>	LD <sub>50</sub> > 2,000 mg/kg (Rabbit)
<b>INHALATION:</b>	Not available (product cannot be aerosolized)
<b>EYE CONTACT:</b>	Minimally irritating
<b>SKIN CONTACT:</b>	Not irritating
<b>SKIN SENSITIZATION:</b>	Non-sensitizing
<b>TARGET ORGAN TOXICITY:</b>	Tebuthiuron in repeat dose oral exposures in rats at high concentrations (above 100 mg/kg/day) was noted as causing vacuolization of acinar cells. This route of exposure is not anticipated with normal use of the product.
<b>REPRODUCTIVE/DEVELOPMENTAL EFFECTS (Information on the active ingredients):</b>	
<b>TEBUTHIURON:</b>	Tebuthiuron does not appear to cause any adverse developmental or reproductive effects based on rat and rabbit studies.
<b>DIURON:</b>	Pre- and post-natal toxicity evaluation did not reveal developmental or reproductive toxicity.
<b>CARCINOGENICITY (Information on the active ingredients):</b>	
<b>TEBUTHIURON:</b>	Tebuthiuron is not classifiable as to human carcinogenicity.
<b>DIURON:</b>	Diuron has been characterized as a "known/likely" human carcinogen by the U.S. EPA, based on urinary bladder carcinomas in both sexes of the Wistar rat, kidney carcinomas in the male rat (a rare tumor), and mammary gland carcinomas in the female NMRI mouse.
<b>GENETIC TOXICITY INFORMATION (Information on the active ingredients):</b>	
<b>TEBUTHIURON:</b>	Results of <i>in vitro</i> studies show Tebuthiuron does not appear to be mutagenic.
<b>DIURON:</b>	Diuron was not mutagenic in bacteria or in cultured mammalian cells.

## SECTION 12 - ECOLOGICAL INFORMATION (Information on the active ingredients)

For terrestrial use, do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinseate.

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## SECTION 13 - DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** DO NOT contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:**

Triple rinse (or equivalent). Then offer for recycling or dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**PLASTIC BAG:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer bag 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.

**PLASTIC PAIL:** Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinse into application equipment or a mix tank or store rinse for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer container for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## SECTION 14 - TRANSPORTATION INFORMATION

Not regulated for all modes of transport.

Compounds, Tree or Weed Killing, NMF155050 SUB 12

Class 60

N.M.F.C. 53020-02

## SECTION 15 - REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**CAUTION**

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**SARA TITLE III DATA:**

**Section 313 (Diuron and Tebuthiuron)**

**Section 311 and 312 Hazard Categories**

Immediate Health Hazard: Yes

Reactive Hazard: No

Delayed Health Hazard: Yes

Sudden Pressure Hazard: No

Fire Hazard: No

**SECTION 302:** Extremely Hazardous Substances No

<b>SECTION 313:</b> Toxic Chemicals	Tebuthiuron	CAS No. 34014-18-1	Concentration 2.00%
	Diuron	CAS No. 330-54-1	Concentration 6.00%

CERCLA Reportable Quantity: Sprakil SK-26 – 1,666 lbs.  
Diuron – 100 lbs.  
Tebuthiuron – Not Reportable

RCRA Hazardous Waste Code(s) and Statement(s): None

California Proposition 65: This product contains a chemical(s) known to the state of California to cause cancer or reproductive toxicity.

**NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## SECTION 16 - OTHER INFORMATION

**OSHA HAZARD COMMUNICATION STANDARD:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**APPENDIX**

All information contained herein is offered in good faith and with the belief that it is accurate. As of date of issuance or revision, we are providing all information that we have or are aware of relevant to the foreseeable use or handling of the material. However, in the event of an adverse incident associated with this material, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.