MONSANTO COMPANY

Roundup Custom[TM] for Aquatic & Terrestrial Use

Version: 1.0

Page: 1/9 Effective date: 07/03/2012

# **MONSANTO COMPANY**

Safety Data Sheet Commercial Product

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product name

Roundup Custom[TM] for Aquatic & Terrestrial Use

EPA Reg. No.

524-343

Product use

Herbicide

Chemical name

Not applicable.

**Synonyms** 

None.

Company

MONSANTO COMPANY, 800 N. Lindbergh Blvd., St. Louis, MO, 63167

Telephone: 800-332-3111, Fax: 314-694-5557

E-mail: safety.datasheet@monsanto.com

**Emergency numbers** 

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT Call CHEMTREC - Day

or Night: 1-800-424-9300 toll free in the continental U.S., Puerto Rico, Canada, or Virgin Islands. For calls

originating elsewhere: 703-527-3887 (collect calls accepted).

FOR MEDICAL EMERGENCY - Day or Night: +1 (314) 694-4000 (collect calls accepted).

### 2. HAZARDS IDENTIFICATION

### **Emergency overview**

Appearance and odour (colour/form/odour): Colourless - Amber / Liquid, (viscous) / Odourless

CAUTION!

### Potential health effects

Likely routes of exposure

Skin contact, eye contact, inhalation

Eye contact, short term

Not expected to produce significant adverse effects when recommended use instructions are followed,

Skin contact, short term

Not expected to produce significant adverse effects when recommended use instructions are followed.

Inhalation, short term

Not expected to produce significant adverse effects when recommended use instructions are followed.

Single ingestion

Not expected to produce significant adverse effects when recommended use instructions are followed.

Refer to section 11 for toxicological and section 12 for environmental information.

#### **OSHA Status**

This product is not hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredient

Page: 3 / 9 Effective date: 07/03/2012

# 6. ACCIDENTAL RELEASE MEASURES

### **Environmental precautions**

SMALL QUANTITIES:

Low environmental hazard.

LARGE QUANTITIES:

Minimise spread.

Keep out of drains, sewers, ditches and water ways.

### Methods for cleaning up

SMALL QUANTITIES:

Absorb only in non-combustible material.

Sweep, scoop or vacuum to remove.

LARGE QUANTITIES:

Absorb in earth, sand or absorbent material.

Dig up heavily contaminated soil.

Collect in containers for disposal.

Flush residues with small quantities of water.

Minimise use of water to prevent environmental contamination.

Refer to section 7 for types of containers.

Refer to section 13 for disposal of spilled material.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

# 7. HANDLING AND STORAGE

Good industrial practice in housekeeping and personal hygiene should be followed.

### Handling

Avoid contact with eyes, skin and clothing.

When using do not eat, drink or smoke.

Wash hands thoroughly after handling or contact.

Wash contaminated clothing before re-use.

Thoroughly clean equipment after use.

Do not contaminate drains, sewers and water ways when disposing of equipment rinse water.

Refer to section 13 of the safety data sheet for disposal of rinse water.

Emptied containers retain vapour and product residue.

### Storage

Minimum storage temperature: -15 °C

Maximum storage temperature: 50 °C

Compatible materials for storage: stainless steel, fibreglass, plastic

Incompatible materials for storage: galvanised steel, unlined mild steel, see section 10.

Keep out of reach of children.

Keep away from food, drink and animal feed.

Keep only in the original container.

Keep container tightly closed in a cool, well-ventilated place.

Partial crystallization may occur on prolonged storage below the minimum storage temperature.

If frozen, place in warm room and shake frequently to put back into solution.

Minimum shelf life: 5 years.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne exposure limits

	Airporne exposure minus		
1	Components	Exposure Guidelines	
1	Isopropylamine salt of glyphosate	No specific occupational exposure limit has been established.	

Page: 5 / 9 Effective date: 07/03/2012

Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

### Hazardous decomposition

Thermal decomposition: Hazardous products of combustion: see section 5.

### Self-accelerating decomposition temperature (SADT)

No data.

### 11. TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and other health professionals.

Data obtained on product, similar products and on components are summarized below.

#### Mutagenicity

### Micronucleus test(s):

Not mutagenic.

### Ames test(s):

Not mutagenic with and without metabolic activation.

### Isopropylamine salt of glyphosate (62%)

Data obtained on product and components are summarized below.

### Acute oral toxicity

### Rat, LD50 (limit test): > 5,000 mg/kg body weight

Practically non-toxic.

FIFRA category IV.

No mortality.

### Mouse, LD50 (limit test): > 5,000 mg/kg body weight

Practically non-toxic.

FIFRA category IV.

No mortality.

### Acute dermal toxicity

# Rabbit, LD50 (limit test): > 5,000 mg/kg body weight

Practically non-toxic.

FIFRA category IV.

No mortality.

### Skin irritation

#### Rabbit, 6 animals, Draize test:

Days to heal: 3

Primary Irritation Index (PII): 0.0/8.0

Essentially non irritating.

FIFRA category IV.

#### Eye irritation

### Rabbit, 6 animals, OECD 405 test:

Days to heal: 0

FIFRA category IV.

## Acute inhalation toxicity

### Rat, LC50, 4 hours, aerosol: > 4.24 mg/L

Practically non-toxic.

FIFRA category IV.

No mortality. Maximum attainable concentration.

### Skin sensitization

### Guinea pig, 3-induction Buehler test:

Positive incidence: 0 %

Page: 7/9

Effective date: 07/03/2012

### Rainbow trout (Oncorhynchus mykiss):

Acute toxicity, 96 hours, static, LC50: > 1,000 mg/L

Practically non-toxic.

# Aquatic toxicity, invertebrates

# Water flea (Daphnia magna):

Acute toxicity, 48 hours, static, EC50: 930 mg/L

Practically non-toxic.

### Aquatic toxicity, algae/aquatic plants

### Green algae (Scenedesmus subspicatus):

Acute toxicity, 72 hours, static, EbC50 (biomass): 72.9 mg/L

Slightly toxic.

## Soil organism toxicity, invertebrates

#### Earthworm (Eisenia foetida):

Acute toxicity, 14 days, LC50: > 5,000 mg/kg dry soil

Practically non-toxic.

#### N-(phosphonomethyl)glycine; { glyphosate}

#### Avian toxicity

### Bobwhite quail (Colinus virginianus):

Dietary toxicity, 5 days, LC50: > 4,640 mg/kg diet

No more than slightly toxic.

### Mallard duck (Anas platyrhynchos):

Dietary toxicity, 5 days, LC50: > 4,640 mg/kg diet

No more than slightly toxic.

### Bobwhite quail (Colinus virginianus):

Acute oral toxicity, single dose, LD50: > 3,851 mg/kg body weight

Practically non-toxic.

## Arthropod toxicity

### Honey bee (Apis mellifera):

Oral, 48 hours, LD50: 100 µg/bee

# Honey bee (Apis mellifera):

Contact, 48 hours, LD50: > 100 µg/bee

Practically non-toxic.

### Bioaccumulation

# Bluegill sunfish (Lepomis macrochirus):

Whole fish:  $BCF: \le 1$ 

No significant bioaccumulation is expected.

### **Dissipation**

### Soil, field:

Half life: 2 - 174 days

Koc: 884 - 60,000 L/kg

Adsorbs strongly to soil.

Water, aerobic:

Half life: < 7 days

### 13. DISPOSAL CONSIDERATIONS

#### Product

Not classified as hazardous waste by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261.

Keep out of drains, sewers, ditches and water ways.

Recycle if appropriate facilities/equipment available.

Burn in proper incinerator.

Follow all local/regional/national/international regulations.

### Container

Dispose of as non hazardous industrial waste.

Page: 9/9

Effective date: 07/03/2012

Irritation Index), Pow (Partition coefficient n-octanol/water), S.C. (subcutaneous), STEL (Short-Term Exposure Limit), TLV-C (Threshold Limit Value-Ceiling), TLV-TWA (Threshold Limit Value - Time Weighted Average), UEL (Upper Explosion Limit)

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS 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.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, MONSANTO Company or any of its subsidiaries makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for the purposes prior to use. In no event will MONSANTO Company or any of its subsidiaries be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR TO THE PRODUCT TO WHICH INFORMATION REFERS.

000000043082

End of document