MONSANTO COMPANY

Safety Data Sheet Commercial Product

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier

Roundup Custom[TM] for Aquatic & Terrestrial Use

1.1.1. Chemical name

- Not applicable.
- 1.1.2. Synonyms
 - None.
- **1.1.3. EPA Reg. No.** 524-343
- 1.2. Product use

Herbicide

1.3. 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

1.4. 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

2.1. Classification

OSHA Hazard Communication Standard, 29 CFR 1910.1200 (2012) Not classified as hazardous.

2.2. Appearance and odour (colour/form/odour)

Colourless-Amber /Liquid, (viscous) / Odourless

2.3. OSHA Status

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredient

Isopropylamine salt of N-(phosphonomethyl)glycine; {Isopropylamine salt of glyphosate}

Composition

COMPONENT	CAS No.	% by weight (approximate)
Isopropylamine salt of glyphosate	38641-94-0	53.8
Water	7732-18-5	46.2

4. FIRST AID MEASURES

Use personal protection recommended in section 8.

4.1. Description of first aid measures

- **4.1.1. Eye contact:** If in eyes, hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
- **4.1.2. Skin contact:** 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. Wash clothes and clean shoes before re-use.
- **4.1.3. Inhalation:** If inhaled, move person to fresh air. If person is not breathing, call emergency number or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- **4.1.4. Ingestion:** Call 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 the poison center or doctor. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

- **4.2.1. Eye contact, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed.
- **4.2.2. Skin contact, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed.
- **4.2.3. Inhalation, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed.
- **4.2.4. Single ingestion:** Not expected to produce significant adverse effects when recommended use instructions are followed.

4.3. Indication of any immediate medical attention and special treatment needed

4.3.1. Advice to doctors: This product is not an inhibitor of cholinesterase.

4.3.2. Antidote: Treatment with atropine and oximes is not indicated.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

5.1.1. Recommended: Water, foam, dry chemical, carbon dioxide (CO2)

5.2. Special hazards

5.2.1. Unusual fire and explosion hazards

None.

Minimise use of water to prevent environmental contamination. Environmental precautions: see section 6.

5.2.2. Hazardous products of combustion

Carbon monoxide (CO), phosphorus oxides (PxOy), nitrogen oxides (NOx)

5.3. Fire fighting equipment: Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

5.4. Flash point

Does not flash.

6. ACCIDENTAL RELEASE MEASURES

6.1. Environmental precautions

SMALL QUANTITIES: Low environmental hazard. LARGE QUANTITIES: Minimise spread. Keep out of drains, sewers, ditches and water ways.

6.2. 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.

7.1. Precautions for safe 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.

7.2. Conditions for safe 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

8.1. Airborne exposure limits

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

8.2. Engineering controls: No special requirement when used as recommended.

8.3. Recommendations for personal protective equipment

8.3.1. Eye protection: No special requirement when used as recommended.

8.3.2. Skin protection: No special requirement when used as recommended.

8.3.3. Respiratory protection: No special requirement when used as recommended.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

9. PHYSICAL AND CHEMICAL PROPERTIES

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Colour/colour range: Colourless Odour: Odourless Form: Liquid, (viscous) Physical form changes (melting, boiling, etc.): Melting point: Melting point: Not applicable. Boiling point: No data. Flash point: Does not flash. Explosive properties: No data. Auto ignition temperature: No data. Self-accelerating decomposition temperature: No data. Oxidizing properties: No data. Specific gravity: 1.206 @ 20 °C / 15.6 °C Vapour pressure: No significant volatility; aqueous solution. Vapour density: No data. Evaporation rate: No data. Dynamic viscosity: No data. Mentic viscosity: No data. Phensity: 1.206 g/cm3 @ 20 °C Solubility: Vata: No data. Evaporation rate: No data. Mo data. Donsity: 1.206 g/cm3 @ 20 °C Solubility: Water: Completely miscible. PH: 4.6 - 4.8 @ 63 g/l Phentition coefficient: <t< th=""><th></th><th></th></t<>		
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Solubility: Water: Completely miscible. pH: 4.6 - 4.8 @ 63 g/l	Kinematic viscosity:	No data.
pH: 4.6 - 4.8 @ 63 g/l	Density:	1.206 g/cm3 @ 20 °C
	Solubility:	Water: Completely miscible.
Partition coefficient: $\log Pow' < 0.000$ (active ingredient)	pH:	4.6 - 4.8 @ 63 g/l
	Partition coefficient:	log Pow: < 0.000 (active ingredient)

10. STABILITY AND REACTIVITY 10.1. Reactivity

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

10.2. Stability

Stable under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions

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

10.4. Incompatible materials

galvanised steel;unlined mild steel;see section 10.; Compatible materials for storage: see section 7.2.

10.5. Hazardous decomposition

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

11. TOXICOLOGICAL INFORMATION

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

Likely routes of exposure: Skin contact, eye contact, inhalation

Potential health effects

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.

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

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. No mortality. Mouse, LD50 (limit test): > 5,000 mg/kg body weight Practically non-toxic. No mortality. Acute dermal toxicity **Rabbit, LD50 (limit test)**: > 5,000 mg/kg body weight Practically non-toxic. No mortality. Skin irritation Rabbit, 6 animals, Draize test: Days to heal: 3 Primary Irritation Index (PII): 0.0/8.0 Essentially non irritating. Eye irritation Rabbit, 6 animals, OECD 405 test:

Days to heal: 0 Essentially non irritating.

Acute inhalation toxicity

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

Practically non-toxic. No mortality. Maximum attainable concentration.

Skin sensitization

Guinea pig, 3-induction Buehler test:

Positive incidence: 0 %

Negative.

N-(phosphonomethyl)glycine; { glyphosate acid }

Genotoxicity

Not genotoxic.

Carcinogenicity

Not carcinogenic in rats or mice. Listed as Category 2A by the International Agency for Research on Cancer (IARC) but our expert opinion is that classification as a carcinogen is not warranted.

Reproductive/Developmental Toxicity

Developmental effects in rats and rabbits only in the presence of significant maternal toxicity. Reproductive effects in rats only in the presence of significant maternal toxicity.

12. ECOLOGICAL INFORMATION

This section is intended for use by ecotoxicologists and other environmental specialists.

Data obtained on components are summarized below.

Isopropylamine salt of glyphosate (62%)

Data obtained on product and components are summarized below.

```
Aquatic toxicity, fish
 Bluegill sunfish (Lepomis macrochirus):
   Acute toxicity, 96 hours, static, LC50: > 1,000 mg/L
   Practically non-toxic.
 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.
 Green algae (Scenedesmus subspicatus):
   Acute toxicity, 72 hours, static, NOEC (growth rate): 26.4 mg/L
Soil organism toxicity, invertebrates
 Earthworm (Eisenia foetida):
   Acute toxicity, 14 days, LC50: > 5,000 mg/kg dry soil
   Practically non-toxic.
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Version: 2.0

<u>N-(phosphonomethyl)glycine; { glyphosate acid}</u>

Avian toxicity

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: < 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

13.1. Waste treatment methods

13.1.1. 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.

13.1.2. Container

Dispose of as non hazardous industrial waste. See the individual container label for disposal information. Emptied containers retain vapour and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Empty packaging completely. Triple or pressure rinse empty containers. Pour rinse water into spray tank. Do NOT contaminate water when disposing of rinse waters. Do NOT re-use containers. Store for collection by approved waste disposal service. Follow all local/regional/national/international regulations.

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

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

14.1. US Dept. of Transportation (DOT) Hazardous Materials Regulations (49 CFR Parts 105-180)

Proper Shipping Name	Not regulated for domestic ground transportation. ()
(Technical Name if	
required):	

14.2. IMDG Code

		Proper Shipping Name	Not regulated for transport under IMO Regulations ()	
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(Technical Name if	
required):	

14.3. IATA/ICAO

Proper Shipping Name	Not regulated for transport under IATA/ICAO Regulations ()
(Technical Name if required):	

15. REGULATORY INFORMATION

15.1. Environmental Protection Agency

15.1.1. TSCA Inventory

All components are on the US EPA's TSCA Inventory

15.1.2. SARA Title III Rules

Section 311/312 Hazard Categories: Not applicable. Section 302 Extremely Hazardous Substances: Not applicable. Section 313 Toxic Chemical(s): Not applicable.

15.1.3. CERCLA Reportable quantity

Not applicable.

15.1.4. Federal Insecticide, Fungicide, Rodenticide Act (FIFRA)

This chemical is a pesticide product regulated 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!

Acute oral toxicity: FIFRA category IV. Acute oral toxicity: FIFRA category IV. Acute dermal toxicity: FIFRA category IV. Acute inhalation toxicity: FIFRA category IV. Skin irritation: FIFRA category IV. Eye irritation: FIFRA category IV.

16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data.

Follow all local/regional/national/international regulations.

Please consult supplier if further information is needed.

For more information refer to product label.

Please consult Monsanto if further information is needed.

In this document the British spelling was applied.

® Registered trademark of Monsanto Company or its subsidiaries.

|| Significant changes versus previous edition.

NFPA

Health

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Instability 1

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Additional Markings

0 = Minimal hazard, 1 = Slight hazard, 2 = Moderate hazard, 3 = Severe hazard, 4 = Extreme hazard

1

Flammability

Full denomination of most frequently used acronyms. BCF (Bioconcentration Factor), BOD (Biochemical Oxygen Demand), COD (Chemical Oxygen Demand), EC50 (50% effect concentration), ED50 (50% effect dose), I.M. (intramuscular), I.P. (intraperitoneal), I.V. (intravenous), Koc (Soil adsorption coefficient), LC50 (50% lethality concentration), LD50 (50% lethality dose), LDLo (Lower limit of lethal dosage), LEL (Lower Explosion Limit), LOAEC (Lowest Observed Adverse Effect Concentration), LOAEL (Lowest Observed Adverse Effect Level), LOEC (Lowest Observed Effect Concentration), NOAEL (Lowest Observed Adverse Effect Level), MCD (Maximum Tolerated Dose), NOAEC (No Observed Adverse Effect Concentration), NOAEL (No Observed Adverse Effect Level), NOEC (No Observed Effect Concentration), NOAEL (No Observed Adverse Effect Level), OEL (Coccupational Exposure Limit), PEL (Permissible Exposure Limit), PII (Primary Irritation Index), Pow (Partition coefficient n-octanol/water), S.C. (subcutaneous), STEL (Short-Term Exposure Limit), STOT SE (Specific Target Organ Toxicity, Repeated Exposure), 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.

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