

# SAFETY DATA SHEET



## ROUNDUP POWERMAX® II HERBICIDE

Version 2.0 / USA  
102000040205

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Revision Date: 10/28/2020  
Print Date: 03/16/2021

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

**Trade name** ROUNDUP POWERMAX® II HERBICIDE  
**Product code (UVP)** 62290313  
**SDS Number** 102000040205  
**EPA Registration No.** 524-537

#### Relevant identified uses of the substance or mixture and uses advised against

**Use** Herbicide  
**Restrictions on use** See product label for restrictions.  
**Information on supplier**  
**Supplier** Bayer CropScience LP  
800 North Lindbergh Blvd.  
St. Louis, MO 63167  
USA  
**Responsible Department** Email: SDSINFO.BCS-NA@bayer.com  
**Emergency telephone no.**  
**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577  
**Product Information Telephone Number** 1-866-99BAYER (1-866-992-2937)

### SECTION 2: HAZARDS IDENTIFICATION

**Classification in accordance with regulation HCS 29CFR §1910.1200**  
Acute toxicity(Inhalation): Category 4

**Labelling in accordance with regulation HCS 29CFR §1910.1200**



**Signal word:** Warning

**Hazard statements**  
Harmful if inhaled.

**Precautionary statements**  
Avoid breathing mist/ vapours/ spray.

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Use only outdoors or in a well-ventilated area.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor/physician if you feel unwell.

### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.  
No health hazards not otherwise classified.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Potassium salt of glyphosate	70901-12-1	48.8
Surfactant blend (proprietary)		>7.0 – <13.0

The specific chemical identity and/or concentration range is being withheld because it is trade secret information.

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	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 physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	To date no symptoms are known.
<b>Indication of any immediate medical attention and special treatment needed</b>	
<b>Risks</b>	This product is not a cholinesterase inhibitor.

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<b>Treatment</b>	Treatment with atropine and oximes is not indicated. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.
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### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

<b>Suitable</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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<b>Unsuitable</b>	High volume water jet
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<b>Special hazards arising from the substance or mixture</b>	In the event of fire the following may be released: Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ), Oxides of phosphorus
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#### Advice for firefighters

<b>Special protective equipment for firefighters</b>	In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. Equipment should be thoroughly decontaminated after use.
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<b>Further information</b>	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
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<b>Flash point</b>	does not flash
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<b>Auto-ignition temperature</b>	No data available
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<b>Lower explosion limit</b>	Not applicable
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<b>Upper explosion limit</b>	Not applicable
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<b>Explosivity</b>	Not explosive
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### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

<b>Precautions</b>	Use personal protective equipment. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.
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#### Methods and materials for containment and cleaning up

<b>Methods for cleaning up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
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<b>Additional advice</b>	Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.
<b>Reference to other sections</b>	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

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### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing. Keep working clothes separately. Garments that cannot be cleaned must be destroyed (burnt).

#### Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers** Store in original container. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in a place accessible by authorized persons only. Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode. Protect from freezing. Partial crystallization may occur on prolonged storage below the minimum storage temperature. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

No known occupational limit values.

#### Additional advice

This product contains material which are Trade Secret and may have Occupational Exposure Limits.

#### Exposure controls

##### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection** When respirators are required, select NIOSH approved equipment

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based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

### Hand protection

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)  
Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

### Eye protection

Use tightly sealed goggles and face protection.

### Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.

### General protective measures

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.  
Keep and wash PPE separately from other laundry.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Form</b>	Liquid, clear
<b>Colour</b>	light yellow to light red brown
<b>Odour</b>	No data available
<b>Odour Threshold</b>	No data available
<b>pH</b>	4.5 - 4.9 (6.77 %) (23 °C) (deionized water)
<b>Melting point/range</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash point</b>	does not flash
<b>Flammability</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Minimum ignition energy</b>	Not applicable
<b>Self-accelerating decomposition temperature (SADT)</b>	No data available
<b>Upper explosion limit</b>	Not applicable

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<b>Lower explosion limit</b>	Not applicable
<b>Vapour pressure</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Relative vapour density</b>	No significant volatility.
<b>Relative density</b>	No data available
<b>Density</b>	ca. 1.36 g/cm <sup>3</sup> (20 °C)
<b>Water solubility</b>	soluble
<b>Partition coefficient: n-octanol/water</b>	Potassium salt of glyphosate: log Pow: < -3.2 (25 °C)
<b>Viscosity, dynamic</b>	No data available
<b>Viscosity, kinematic</b>	No data available
<b>Oxidizing properties</b>	No data available
<b>Explosivity</b>	Not explosive
<b>Other information</b>	Further safety related physical-chemical data are not known.

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### SECTION 10: STABILITY AND REACTIVITY

#### Reactivity

<b>Thermal decomposition</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	Galvanised steel, Carbon steel, Unlined mild steel Store only in the original container.
<b>Hazardous decomposition products</b>	Hazardous products of combustion: see section 5.

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### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Exposure routes</b>	Skin contact, Eye contact, Inhalation
<b>Immediate Effects</b>	
<b>Eye</b>	May cause mild irritation to eyes.

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

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

**Inhalation** Harmful if inhaled.

### Information on toxicological effects

**Acute oral toxicity** LD50 (Rat) > 5,000 mg/kg  
Information given is based on data obtained from similar substances.

**Acute inhalation toxicity** LC50 (Rat) > 1.20 mg/l  
Exposure time: 4 h  
Determined in the form of liquid aerosol.  
No deaths  
Information given is based on data obtained from similar substances.

**Acute dermal toxicity** LD50 (Rat) > 5,000 mg/kg  
Information given is based on data obtained from similar substances.

**Skin corrosion/irritation** Moderate skin irritation. (Rabbit)  
Information given is based on data obtained from similar substances.

**Serious eye damage/eye irritation** Slight irritant effect - does not require labelling. (Rabbit)  
Information given is based on data obtained from similar substances.

**Respiratory or skin sensitisation** Skin: Non-sensitizing. (Guinea pig)  
Information given is based on data obtained from similar substances.

### Assessment STOT Specific target organ toxicity – single exposure

Potassium salt of glyphosate: Based on available data, the classification criteria are not met.

### Assessment STOT Specific target organ toxicity – repeated exposure

Potassium salt of glyphosate did not cause specific target organ toxicity in experimental animal studies.

### Assessment mutagenicity

Potassium salt of glyphosate is not considered mutagenic.

### Assessment carcinogenicity

Potassium salt of glyphosate: Based on available data, the classification criteria are not met.  
Important comment to IARC Listing: Our expert opinion is that classification as a carcinogen is not warranted.

### ACGIH

None.

### NTP

None.

### IARC

Potassium salt of glyphosate 70901-12-1 Overall evaluation: 2A

### OSHA

None.

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### Assessment toxicity to reproduction

Potassium salt of glyphosate: Based on available data, the classification criteria are not met.

### Assessment developmental toxicity

Potassium salt of glyphosate: Based on available data, the classification criteria are not met.

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## SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 3.13 mg/l semi-static test; Exposure time: 96 h Information given is based on data obtained from similar substances.  LC50 (Lepomis macrochirus (Bluegill sunfish)) 120 mg/l static test; Exposure time: 96 h The value mentioned relates to the active ingredient glyphosate.  LC50 (Oncorhynchus mykiss (rainbow trout)) 86 mg/l static test; Exposure time: 96 h The value mentioned relates to the active ingredient glyphosate.
<b>Chronic toxicity to fish</b>	Oncorhynchus mykiss (rainbow trout) flow-through test NOEC: $\geq$ 9.63 mg/l The value mentioned relates to the active ingredient glyphosate.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 8.0 mg/l static test; Exposure time: 48 h Information given is based on data obtained from similar substances.
<b>Chronic toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)): 12.5 mg/l Exposure time: 21 d The value mentioned relates to the active ingredient glyphosate.
<b>Toxicity to aquatic plants</b>	EbC50 (Raphidocelis subcapitata (freshwater green alga)) 0.124 mg/l static test; Exposure time: 72 h Information given is based on data obtained from similar substances.
<b>Biodegradability</b>	Potassium salt of glyphosate: Not readily biodegradable.
<b>Koc</b>	Potassium salt of glyphosate: Koc: 884
<b>Bioaccumulation</b>	Potassium salt of glyphosate: Bioconcentration factor (BCF) < 1
<b>Mobility in soil</b>	Potassium salt of glyphosate: Variable, depends on temperature, soil type, soil moisture, soil pH and organic matter content.
<b>Results of PBT and vPvB assessment</b>	
<b>PBT and vPvB assessment</b>	Potassium salt of glyphosate: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).



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<b>Additional ecological information</b>	No further ecological information is available.
<b>Environmental precautions</b>	Apply this product as specified on the label. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Retain and dispose of contaminated wash water.

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### SECTION 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods

<b>Product</b>	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Do not contaminate water, food, or feed by disposal. Follow all local/regional/national/international regulations.
<b>Contaminated packaging</b>	Follow advice on product label and/or leaflet. Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use. Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke.
<b>RCRA Information</b>	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

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### SECTION 14: TRANSPORT INFORMATION

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

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### SECTION 15: REGULATORY INFORMATION

<b>EPA Registration No.</b>	524-537
<b>US Federal Regulations TSCA list</b>	
Water	7732-18-5

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### US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

### SARA Title III - Section 302 - Notification and Information

Not applicable.

### SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

### US States Regulatory Reporting

#### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

### US State Right-To-Know Ingredients

None.

### Environmental

#### CERCLA

None.

#### Clean Water Section 307(a)(1)

None.

#### Safe Drinking Water Act Maximum Contaminant Levels

None.

### EPA/FIFRA Information:

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:** Causes moderate eye irritation.  
Harmful if inhaled.

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## SECTION 16: OTHER INFORMATION

### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer

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IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

### NFPA 704 (National Fire Protection Association):

Health - 2      Flammability - 1      Instability - 1      Others - none

### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 2      Flammability - 1      Physical Hazard - 1      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** New Safety Data Sheet.

**Revision Date:** 10/28/2020

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