

ROUNDUP PROMAX® HERBICIDE

Version 1.0 / USA Revision Date: 09/24/2020 102000037605 Print Date: 09/24/2020

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

Product identifier

Trade name ROUNDUP PROMAX® HERBICIDE

Product code (UVP) 86723530

SDS Number 102000037605

EPA Registration No. 524-579

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

Use Herbicide

Restrictions on useSee product label for restrictions.

Information on supplier

Supplier Bayer Environmental Science

A division of Bayer CropScience LP 5000 Centregreen Way, Suite 400

Cary, NC 27513

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

1-800-331-2867

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



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Avoid breathing mist/ spray.

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 48.7 Surfactant blend (proprietary) 8.8

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

General advice When possible, have the product container or label with you when

calling a poison control center or doctor or going for treatment.

Inhalation 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.

Skin contact 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.

Eye contact 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.

Ingestion 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

Symptoms To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed

Risks This product is not a cholinesterase inhibitor.



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Treatment Treatment with atropine and oximes is not indicated. Appropriate

supportive and symptomatic treatment as indicated by the patient's

condition is recommended.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

Unsuitable High volume water jet

Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Oxides of

phosphorus

Advice for firefighters

Special protective

In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and equipment for firefighters

full protective clothing. Equipment should be thoroughly

decontaminated after use.

Further information 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.

Flash point does not flash **Auto-ignition temperature** No data available Lower explosion limit Not applicable **Upper explosion limit** Not applicable **Explosivity** Not explosive

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Use personal protective equipment. Keep unauthorized people away.

Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid Methods for cleaning up

> 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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Additional advice 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.

Reference to other sections Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No known occupational limit values.

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



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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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form Liquid, clear

Colour light yellow to light red brown

Odour like soap

Odour Threshold No data available

4.3 - 4.8 (6.77 %) (23 °C) (deionized water) Hq

Melting point/range 200 °C

Boiling Point

No data available

Flash point does not flash **Flammability** No data available **Auto-ignition temperature** No data available

Minimum ignition energy Not applicable

Self-accelarating decomposition temperature

(SADT)

No data available

Upper explosion limit Not applicable Lower explosion limit Not applicable

< 0.0000001 mmHg (25 °C) Vapour pressure



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Evaporation rate

Relative vapour density

Relative density

1.356 (20 °C)

Water at 15.6 °C

Density 1.36 g/cm³ (20 °C)

Water solubility completely miscible

Partition coefficient: n- log Pow: -3.2 (25 °C)

octanol/water The value mentioned relates to the active ingredient glyphosate.

Partition coefficient: n- Potassium salt of glyphosate: log Pow: < -3.2 (25 °C)

Viscosity, dynamicNo data availableViscosity, kinematicNo data availableOxidizing propertiesNo data available

Explosivity Not explosive

Other information Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

octanol/water

Thermal decomposition Stable under normal conditions.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous

reactions

Reacts with galvanised steel or unlined mild steel to produce hydrogen,

a highly flammable gas that could explode.

Conditions to avoid Extremes of temperature and direct sunlight.

Incompatible materials Galvanised steel, Carbon steel, Unlined mild steel

Store only in the original container.

Hazardous decomposition

products

Hazardous products of combustion: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Ingestion, Eye contact, Inhalation

Immediate Effects

Eye May cause eye irritation.



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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 May be harmful if inhaled.

Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 5,000 mg/kg

Test conducted with a similar formulation.

Acute inhalation toxicity LC50 (Rat) > 2.58 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

highest concentration tested

Test conducted with a similar formulation.

Acute dermal toxicity LD50 (Rat) > 5,000 mg/kg

Test conducted with a similar formulation.

Skin corrosion/irritation Slight irritant effect - does not require labelling. (Rabbit)

Test conducted with a similar formulation.

Serious eye damage/eye

irritation

Moderate eye irritation. (Rabbit)

Test conducted with a similar formulation.

Respiratory or skin

sensitisation

Skin: Non-sensitizing. (Guinea pig)
OECD Test Guideline 406, Buehler test
Test conducted with a similar formulation.

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



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None.

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.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

The toxicological data refer to a similar formulation.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Cyprinus carpio (Carp)) 4.0 mg/l

static test; Exposure time: 96 h

Test conducted with a similar formulation.

LC50 (Lepomis macrochirus (Bluegill sunfish)) 5.2 mg/l

static test; Exposure time: 96 h

Test conducted with a similar formulation.

Chronic toxicity to fish Oncorhynchus mykiss (rainbow trout)

flow-through test NOEC: >= 9.63 mg/l

The value mentioned relates to the active ingredient glyphosate.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 8.0 mg/l static test; Exposure time:

48 h

Test conducted with a similar formulation.

Chronic toxicity to aquatic

invertebrates

EC50 (Daphnia magna (Water flea)): 12.5 mg/l

Exposure time: 21 d

The value mentioned relates to the active ingredient glyphosate.

Toxicity to aquatic plants EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.46 mg/l

static test; Exposure time: 72 h

Test conducted with a similar formulation.

Biodegradability Potassium salt of glyphosate:

Not readily biodegradable.

Koc Potassium salt of glyphosate: Koc: 884

Bioaccumulation Potassium salt of glyphosate: Bioconcentration factor (BCF) < 1

Mobility in soil Potassium salt of glyphosate: Variable, depends on temperature, soil

type, soil moisture, soil pH and organic matter content.

Results of PBT and vPvB assessment



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PBT and vPvB assessment 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).

Additional ecological

information

No further ecological information is available.

Environmental precautions 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.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product 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.

Contaminated packaging 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.

RCRA Information 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.

SECTION 14: TRANSPORT INFORMATION

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

Freight Classification: COMPOUNDS, TREE OR WEED KILLING, N.O.I. other than

poison, HAVING A DENSITY OF 20 LBS OR GREATER PER

CUBIC FOOT



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SECTION 15: REGULATORY INFORMATION

This product contains material(s) which are Trade Secret and are on various Regulatory Lists. These material(s) are not listed below.

EPA Registration No. 524-579

US Federal Regulations

TSCA list

Water 7732-18-5

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.



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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 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 - 1 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: 09/24/2020

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