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

Product identifier
Trade name                    ROUNDPowerMAX® 3 HERBICIDE
Product code (UVP)            86734028
SDS Number                    102000053823
EPA Registration No.          524-659

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
Eye irritation: Category 2A
Acute toxicity (Inhalation): Category 4

Labelling in accordance with regulation HCS 29CFR §1910.1200

Signal word: Warning

Hazard statements
Causes serious eye irritation.
Harmful if inhaled.
Precautionary statements
Use only outdoors or in a well-ventilated area.
Avoid breathing mist/vapours/spray.
Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
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

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Concentration % by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium salt of glyphosate</td>
<td>70901-12-1</td>
<td>51.2</td>
</tr>
<tr>
<td>Surfactant blend (proprietary)</td>
<td></td>
<td>7.0 – 13.0</td>
</tr>
</tbody>
</table>

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. Call a physician or poison control center immediately.

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.

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

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.

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: No data available

Upper explosion limit: No data available

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

Methods for cleaning up
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.

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.

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 clear, liquid
Colour light yellow to red brown
Odour odourless
Odour Threshold No data available
pH 4.3 - 4.8 (6.0 %) (23 °C) (deionized water)
Melting point/range No data available
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-accelerating decomposition temperature (SADT) No data available
Upper explosion limit No data available
Lower explosion limit No data available
Vapour pressure No data available
Evaporation rate No data available
Relative vapour density No data available
Relative density 1.379 (20 °C)
Density 1.38 g/cm³ (20 °C)
Water solubility soluble
Partition coefficient: n-octanol/water Potassium salt of glyphosate: log Pow: < -3.2 (25 °C)
Viscosity, dynamic No data available
Viscosity, kinematic No data available
Oxidizing properties No oxidizing properties
Explosivity Not explosive
Other information Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

Reactivity
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, Unlined mild steel

Hazardous decomposition products
No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes
Skin contact, Eye contact, Inhalation

Immediate Effects
Eye
Causes substantial but temporary eye injury.

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

Information on toxicological effects

Acute oral toxicity
LD50 (Rat) 5,000 mg/kg
No deaths

Acute inhalation toxicity
LC50 (Rat) 2.23 mg/l

Acute dermal toxicity
LD50 (Rat) 5,000 mg/kg
No deaths

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

Serious eye damage/eye irritation
Moderate eye irritation. (Rabbit)

Respiratory or skin sensitisation
Skin: Non-sensitizing. (Guinea pig)

Assessment STOT Specific target organ toxicity – single exposure
Potassium salt of glyphosate: This information is not available.

Assessment STOT Specific target organ toxicity – repeated exposure
Potassium salt of glyphosate: This information is not available.

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.

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: This information is not available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish
LC50 (Lepomis macrochirus (Bluegill sunfish)) 47 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
LC50 (Crassostrea gigas (Portuguese oyster)) 40 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
ErC50 (Skeletonema costatum) 13.5 mg/l Growth rate; Exposure time: 72 h
Test conducted with a similar formulation.

Toxicity to other organisms
LC50 (Eisenia fetida (earthworms)) 10,000 mg/kg Exposure time: 14 d
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
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

49CFR
Not dangerous goods / not hazardous material

IMDG
UN number 3082
Class 9
SAFETY DATA SHEET

ROUNDUP POWERMAX® 3 HERBICIDE

Version 1.0 / USA
102000053823

Revision Date: 08/26/2020
Print Date: 08/26/2020

Packaging group III
Marine pollutant YES
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AMINE ALKOXYLATE)

IATA
UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AMINE ALKOXYLATE)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 524-659
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
SAFETY DATA SHEET

ROUNDPowerMAX® 3 HERBICIDE
Version 1.0 / USA
102000053823

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.

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

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: 08/26/2020

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all responsibility for safety and use not in accordance with label instructions. The product names are
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