



Roundup ProBiactive 450

Safety Data Sheet

(17th April 2012)

(version 1)

Product Identification

Trade Name: Roundup ProBiactive 450
Description: .
Chemical Emergency Agency Services (24hr): 01865 407 333.

Hazardous Ingredients

Active Ingredient: Potassium salt of Glyphosate (Potassium Salt of N-(Phosphonomethyl) Glycine) (CAS No. 70901-12-1) 42% w/w
Surfactant: 7% w/w
Water & Minor Formulating Ingredients: 51% w/w

Hazard Identification

Human Health Effects: On the basis of available information, this material is not expected to produce any significant adverse effects when recommended use instructions are followed.
Environmental Effects: R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Emergency and First Aid

After Eye Contact: Immediately rinse with plenty of portable water/sterile eye wash solution.
After Skin Contact: Immediately wash with plenty of soap and water. Take off contaminated clothing. Wash clothes and clean shoes before re-use. If there are persistent symptoms, obtain medical advice.
After Ingestion: Do not induce vomiting. Immediately offer water to drink. If symptoms persist obtain medical advice.
After Inhalation: Remove patient to fresh air.
Grossly Contaminated Clothing: Immediately remove contaminated clothing. Wash before re-use.
Further Medical Advice: This product is not an inhibitor of cholinesterase. Treatment with atropine and oximes is not indicated. Keep patient under observation until condition is satisfactory and stable.

Accidental Release Measures

Personal Precautions: Use recommended personal protection. Follow all recommended handling procedures.
Environmental Precautions: Small quantities are unlikely to present an environmental problem. Minimise spread of large quantities. Keep out of drains, ditches, sewers and waterways.
Clean up Methods: Small quantities flush spill area with water. Large quantities, absorb in earth or sand. Sweep up into containers for disposal. Dig up heavily contaminated soil and place in drums. Flush spill area with water.

Fire Fighting Measures

Extinguishing Media: Water, foam, dry chemical, carbon dioxide.

Protection of Fire-Fighters: Self-contained breathing apparatus.

Handling and Storage

Handling: Good industrial practice in housekeeping and personal hygiene should be followed. When using do not eat, drink or smoke. Wash hands thoroughly after handling or contact. Thoroughly clean equipment after use. For more information refer to the product label. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed.

Storage: Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Keep only in the original container. Store above -15°C. Do not store above 50°C. Minimum shelf life 2 years. Do not store in unlined steel or galvanised steel.

Exposure Control/Personal Protection

Airborne Exposure Limits:

Component	Exposure Guidelines
Potassium Salt of Glyphosate	No specific occupational exposure limit has been established.
Surfactant	No specific occupational exposure limit has been established.

Respiratory Protection: No special requirement when used as recommended.

Skin Protection: Wear chemical resistant gloves.

Eye Protection: No special requirement when used as recommended.

Stability and Reactivity

Conditions to Avoid: Heating >100°C may generate pressure due to steam formation from the water present.

Materials to Avoid: This material will react with galvanised or unlined steel (except stainless steel), to produce hydrogen, a highly flammable gas that can cause explosions. Should be mixed, stored and applied in stainless steel, aluminium, fibreglass, plastic or plastic lined steel containers.

Hazardous Decomposition Products: Phosphorous oxides, nitrogen oxides, carbon monoxide.

Waste Disposal

Product: Keep out of drains, ditches, sewers and waterways. Bury only in special, controlled high temperature incinerators. As far as possible recover and store any remaining non-contaminated product in original packaging.

Container: Triple rinse empty containers. Pour rinse water into spray tank. Empty containers to be disposed of hazardous waste. Do not re-use containers. Do not contaminate water ways, ponds or ditches. All local and national regulations should be followed.

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Toxicological Information

Laboratory Data:	Oral LD ₅₀ (rat): >5000mg/kg – not classified as harmful. Dermal LD ₅₀ (rat): > 5000mg/kg – not classified as harmful. Slightly irritating to eyes. Not classified as sensitising to skin.
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Ecological Information

Aquatic Toxicity:	LC ₅₀ 96hr: Rainbow Trout (<i>Oncorhynchus mykiss</i>): > 18mg/l. EC ₅₀ 48h: Water Flea (<i>Daphnia magna</i>): 52mg/l. EC ₅₀ 72h: Green Algae: 14mg/l.
Wildlife Toxicity:	LD ₅₀ 48hr Oral: Honey Bee (<i>Apis Mellifera</i>): > 285microg/bee. LC ₅₀ 14 days: Earthworm (<i>Eisenia foetida</i>): > 2700mg/kg dry soil.

Physical and Chemical Properties:

Appearance:	Yellowish –amber liquid.
Odour:	Slight, amines.
Flash Point:	Not applicable, non flammable.
pH (Value):	4.5-5.5 at 10g/l
Water Solubility:	Fully miscible.
Specific Gravity:	1.308 g/ml at 20°C

Transport Information

Not regulated for transport.

Regulatory Information

R52/53:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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Disclaimer

The information in this document is offered for general health and safety guidance only and is not intended to be a definitive source of advice, nor does it constitute a risk assessment, for which the user is responsible. All information provided in this document is believed to be accurate to the best of our knowledge. Users of the products referred to should observe the recommendations, conditions and instructions relating to any relevant product label, usage information, consent or approval in force at the time. Further and more specific information may be obtained from the supplier on request (small fee may be required for this service). This company shall not be held liable for any damage resulting from handling or from contact with the above product