



Material Safety Data Sheet

According to EC Regulation 1907/2006

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the substance or preparation

MSDS Ref. No.: 3331UK
 Product name: HAMMER
 Product code: 3214
 GIFAP Code: SE suspo-emulsion

Use of the Substance/Preparation

Recommended use: Herbicide

Company/Undertaking Identification

Scotts Professional
 Salisbury House, Weyside Park
 Catteshall Lane, Godalming
 Surrey, GU7 1XE
 United Kingdom

Emergency telephone number: ++44 (0) 1865 407333 (24h)

Email: INFO-MSDS@Scotts.com

2. HAZARDS IDENTIFICATION

Classification

N - Dangerous for the environment

Most important hazards

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Glyphosate (in the form of isopropylamine salt)	38641-94-0	10 - 25%	NE	N;R51/53
Pyraflufen-ethyl	129630-19-9	< 1%	NE	N;R50/53

Components	CAS-No	Weight %	EC-No.	Classification
Aqueous dipropylene glycol solution of approx. 20% 1,2-benzisothiazolin-3-one	No CAS n°	< 1%	NE	C;R34-22-43 N;R50

NE = Non-Established

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General advice:	Keep the casualty under medical control.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label.
Inhalation:	Move to fresh air.
Skin contact:	Rinse with plenty of water. Remove and wash contaminated clothing before re-use.
Eye contact:	Flush eye with water for 15 minutes. If symptoms persist, call a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water spray. Foam. Carbon dioxide (CO₂). Powder.

Unsuitable extinguishing media:

Not applicable

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

does not flash . Danger of toxic gases in smoke in case of fire. carbon and nitrogen oxides. hydrogen fluoride .

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

Specific methods:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment.

Environmental precautions:

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up:

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling:

Technical measures/precautions:

No information available.

Safe handling advice:	When using do not smoke. When using do not eat or drink.
Storage:	
Technical measures/storage conditions:	Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.
Incompatible products:	No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: No information available.

Occupational exposure controls

Personal protective equipment

Respiratory protection: No information available

Hand protection: Gloves.

Eye/face protection Safety glasses.

Skin and body protection: No information available

Hygiene measures General industrial hygiene practice.

Exposure limit values

Environmental exposure controls

There are no Occupational Exposure Limits available.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Liquid
Color:	Opaque, Yellow
Odor:	Slight

Important Health Safety and Environmental Information

Flash point: 86 (°C)

Other information

pH:	4.71 (1 % solution in water.)
Viscosity:	127 cp

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions to avoid: No dangerous reaction known under conditions of use.

Materials to avoid: No information available

Hazardous decomposition products: No decomposition if stored normally

11. TOXICOLOGICAL INFORMATION

Component information

Glyphosate (in the form of isopropylamine salt)

LD50/oral/rat = >5,000mg/kg body weight (limit test)

LD50/dermal/rabbit = >5,000mg/kg body weight (limit test)

Pyraflufen-ethyl

LD50/oral/rat = > 5000 mg/kg

LC50/inhalation/8h/rat = > 5.03 mg/L

LD50/dermal/rat = > 2000 mg/kg

Product information

LD50/dermal/rat = > 2000 mg/kg

LD50/oral/rat = > 2000 mg/kg

Local effects

Skin effects: No skin irritation.

Eye effects: No eye irritation.

Inhalation: No information available.

Ingestion: No information available.

Information given is based on data on the components and the toxicology of similar products

Treatment None specific antidote known, symptomatic treatment.

12. ECOLOGICAL INFORMATION

Product information

Aquatic toxicity:

Data concerning a similar formulation.

LC50/96h/rainbow trout = > 100 mg/L .

LC50/48h/daphnia = > 100 mg/L.

EC50/72h/algae = 1.02 mg/L.

Component information

Glyphosate (in the form of isopropylamine salt)

Ecotoxicity effects

EC50/48h/daphnia = 930mg/l (static)

LC50/96h/rainbow trout = >1,000mg/l (static)

EC50/72h/algae = 72.9mg/l

Do not treat near to a watering place.

Information given is based on data on the components and the toxicology of similar products

13. DISPOSAL CONSIDERATIONS

- Waste Disposal Methods:** Do not empty into drains. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations and national regulations.
- Contaminated packaging:** Clean container with water.. Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal..

14. TRANSPORT INFORMATION

Product information

Physical State: Liquid

ADR/RID

UN-No: 3082
Proper shipping name: Environmentally Hazardous Substance Liquid
 N.O.S.(Glyphosate)
Hazard Class: 9
Packing group: III

IATA

UN-No: 3082
Proper shipping name: Environmentally Hazardous Substance Liquid
 N.O.S.(Glyphosate)
Hazard Class: 9
Packing group: III
Enumeration: Enumeration: M6

IMO / IMDG

UN-No: 3082
Proper shipping name: Environmentally Hazardous Substance Liquid
 N.O.S.(Glyphosate)
Hazard Class: 9
Packing group: III

15. REGULATORY INFORMATION

Indication of danger:

N - Dangerous for the environment.

To avoid risks to man and the environment, comply with the instructions for use.



R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

15. REGULATORY INFORMATION

S -phrase(s)

S 2 - Keep out of the reach of children.

S13 - Keep away from food, drink and animal feedingstuffs.

S20/21 - When using, do not eat, drink or smoke.

ICPE (FR): Classified installation : article 1173

Registration number UK/Eire

MAPP 15060

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R22 - Harmful if swallowed.

R34 - Causes burns.

R43 - May cause sensitization by skin contact.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Reason for revision: *** Indicates changes since the last revision. This version replaces all previous versions

Prepared by: Regulatory Affairs Department.

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End of Safety Data Sheet