



# Material Safety Data Sheet

According to EC Regulation 1907/2006

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Revision Number: 1

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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) 1473 201 100

**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

NE = Non-Established

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

#### 4. FIRST AID MEASURES

<b>General advice:</b>	Keep the casualty under medical control.
<b>Ingestion:</b>	If swallowed, seek medical advice immediately and show this container or label.
<b>Inhalation:</b>	Move to fresh air.
<b>Skin contact:</b>	Rinse with plenty of water. Remove and wash contaminated clothing before re-use.
<b>Eye contact:</b>	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**

<b>Respiratory protection:</b>	No information available
<b>Hand protection:</b>	Gloves.
<b>Eye/face protection</b>	Safety glasses.
<b>Skin and body protection:</b>	No information available
<b>Hygiene measures</b>	General industrial hygiene practice.

**Exposure limit values**

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**General Information**

<b>Physical State:</b>	Liquid
<b>Color:</b>	Opaque, Yellow
<b>Odor:</b>	Slight

**Important Health Safety and Environmental Information**

**Flash point:** 86 (°C)

**Other information**

<b>pH:</b>	4.71 (1 % solution in water.)
<b>Viscosity:</b>	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.

**Sensitization:** Did not cause sensitization on laboratory animals.

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:** Dangerous product in limited quantity from the class 9  
**Hazard Class:** 9  
**Packing group:** III

**IATA**

**UN-No:** 3082  
**Proper shipping name:** Dangerous product in limited quantity from the class 9  
**Hazard Class:** 9  
**Packing group:** III  
**Enumeration:** Enumeration: M6

**IMO / IMDG**

**UN-No:** 3082  
**Proper shipping name:** Dangerous product in limited quantity from the class 9  
**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.

## 15. REGULATORY INFORMATION

N



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

### **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

## 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**