

**JOB DONE TOUGH TREE STUMP KILLER**

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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****Trade name** JOB DONE TOUGH TREE STUMP KILLER**Product code (UVP)** 79237421**1.2 Relevant identified uses of the substance or mixture and uses advised against****Use** Herbicide**1.3 Details of the supplier of the safety data sheet****Supplier** SBM Life Science Ltd  
Unit 2,  
Techno Park,  
Newmarket Road,  
Cambridge,  
CB5 8PB  
Great Britain**Telephone** +44 (0)1223 563108**Telefax** +44 (0)1223 851369**Responsible Department** uk.gardenadvice@sbm-company.com  
QHSE Department  
E-mail: sds@corp.sbm-company.com**1.4 Emergency telephone no.****Emergency telephone no. SBM** +1 813-676-1669**UK Emergency telephone no.** +44 (0)800 220 876 (24 hr)**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**Chronic aquatic toxicity: Category 3  
H412 Harmful to aquatic life with long lasting effects.**2.2 Label elements****Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

Hazard label for supply/use required.

**Hazardous components which must be listed on the label:**

- Glyphosate

**Hazard statements**H412 Harmful to aquatic life with long lasting effects.  
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

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- P102 Keep out of reach of children.
- P501 Dispose of contents/container to a household waste recycling centre as hazardous waste except for empty containers which can be disposed of in the dustbin. Contact your local council for details.
- P501 Dispose of contents/container to a household waste recycling centre as hazardous waste except for empty containers which can be disposed of by recycling. Contact your local council for details.

**2.3 Other hazards**

No other hazards known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Chemical nature**

Water soluble granules (SG)

Glyphosate 68,0 % w/w

**Hazardous components**

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. / EC-No. / REACH Reg. No.	Classification	Conc. [%]
		Regulation (EC) No 1272/2008	
Glyphosate ammonium salt	40465-66-5	Aquatic Chronic 2, H411	77.00
Ethoxylated hydrogenated tallow alkylamines	61790-82-7	Aquatic Chronic 2, H411	> 1 - < 5

**Further information**

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

- Inhalation** Move to fresh air. Keep patient warm and at rest.
- Skin contact** Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.
- Eye contact** Remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.
- Ingestion** DO NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse out mouth and give water in small sips to drink. Keep patient warm and at rest.

**4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms** Local:, Irritation

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Systemic:, Skin, eye and mucous membrane irritation, Salivation,  
Nausea, Vomiting, Diarrhoea**4.3 Indication of any immediate medical attention and special treatment needed****Risks**

This product is not a cholinesterase inhibitor.

**Treatment**

Local treatment: Initial treatment: symptomatic.

Systemic treatment: Initial treatment: symptomatic. In the event of a mouthful or more being ingested, the following measures should be considered: Activated charcoal and cathartics like sorbitol or magnesium sulphate should be given. Monitor: fluid balance.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media****Suitable**

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

**Unsuitable**

High volume water jet

**5.2 Special hazards arising from the substance or mixture**Dangerous gases are evolved in the event of a fire., Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO), phosphorus pentoxide, Nitrogen oxides (NO<sub>x</sub>)**5.3 Advice for firefighters****Special protective equipment for firefighters**

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

**Further information**

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures****Precautions**

Avoid contact with spilled product or contaminated surfaces. Avoid dust formation. Use personal protective equipment.

**6.2 Environmental precautions**

Do not allow to get into surface water, drains and ground water. If spillage enters drains leading to sewage works inform local water company immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

**6.3 Methods and materials for containment and cleaning up****Methods for cleaning up**

Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean floors and contaminated objects with plenty of water.

**Additional advice**

Check also for any local site procedures.

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<b>6.4 Reference to other sections</b>	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.
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**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

<b>Advice on safe handling</b>	No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Avoid dust formation. Ensure adequate ventilation.
<b>Advice on protection against fire and explosion</b>	No special precautions required.
<b>Hygiene measures</b>	When using, do not eat, drink or smoke. Wash hands immediately after work, if necessary take a shower.

**7.2 Conditions for safe storage, including any incompatibilities**

<b>Requirements for storage areas and containers</b>	Store in original container and out of the reach of children, preferably in a locked storage area. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight.
<b>Advice on common storage</b>	Keep away from food, drink and animal feedingstuffs.
<b>7.3 Specific end use(s)</b>	Refer to the label and/or leaflet.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

No control parameters known.

**8.2 Exposure controls**

**Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.**

**Personal protective equipment**

In normal use conditions personal protective equipment is not deemed to be necessary. If there is a potential for excessive exposure the following applies:

<b>Respiratory protection</b>	Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
<b>Hand protection</b>	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and

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always before eating, drinking, smoking or using the toilet.

**Eye protection**

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection**

Wear standard coveralls and Category 3 Type 5 suit.

If there is a risk of significant exposure, consider a higher protective type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Form</b>	granular
<b>Colour</b>	white
<b>Odour</b>	weak, amine-like
<b>pH</b>	ca. 4 at 1 % (20 °C) (deionized water)
<b>Bulk density</b>	ca. 730 kg/m <sup>3</sup>
<b>Water solubility</b>	miscible
<b>Partition coefficient: n-octanol/water</b>	Glyphosate: log Pow: -2.9
<b>Oxidizing properties</b>	No oxidizing properties
<b>Explosivity</b>	Not explosive

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

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

**Thermal decomposition** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** No hazardous reactions when stored and handled according to prescribed instructions.

**10.4 Conditions to avoid** Extremes of temperature and direct sunlight.

**10.5 Incompatible materials** Bases, Store only in the original container.

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

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### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### **11.1 Information on toxicological effects**

<b>Acute oral toxicity</b>	LD50 (Rat) > 5,000 mg/kg
<b>Acute dermal toxicity</b>	LD50 (Rat) > 2,000 mg/kg
<b>Skin irritation</b>	Slight irritant effect - does not require labelling. (Rabbit)
<b>Eye irritation</b>	Slight irritant effect - does not require labelling. (Rabbit)
<b>Sensitisation</b>	Non-sensitizing. OECD Test Guideline 429, local lymph node assay (LLNA)

#### **Assessment repeated dose toxicity**

Glyphosate did not cause specific target organ toxicity in experimental animal studies.

#### **Assessment mutagenicity**

Glyphosate was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

#### **Assessment carcinogenicity**

Glyphosate was not carcinogenic in lifetime feeding studies in rats and mice.

#### **Assessment toxicity to reproduction**

Glyphosate did not cause reproductive toxicity in a two-generation study in rats.

#### **Assessment developmental toxicity**

Glyphosate did not cause developmental toxicity in rats and rabbits.

### **SECTION 12: ECOLOGICAL INFORMATION**

#### **12.1 Toxicity**

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) > 100 mg/l Exposure time: 96 h
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia (water flea)) > 100 mg/l Exposure time: 48 h
<b>Toxicity to aquatic plants</b>	EC50 (Desmodesmus subspicatus (green algae)) 91.6 mg/l Exposure time: 96 h EC50 (Lemna gibba (gibbous duckweed)) 28 mg/l Exposure time: 72 h

#### **12.2 Persistence and degradability**

<b>Biodegradability</b>	Glyphosate: Not rapidly biodegradable
<b>Koc</b>	Glyphosate: Koc: 884 - 60000

#### **12.3 Bioaccumulative potential**

<b>Bioaccumulation</b>	Glyphosate: Bioconcentration factor (BCF) < 1 Does not bioaccumulate.
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#### **12.4 Mobility in soil**

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**Mobility in soil** Immobile in soil**Mobility in soil** Glyphosate: Slightly mobile in soils**12.5 Results of PBT and vPvB assessment**

This mixture contains no substance considered to be very persistent and very bioaccumulative (vPvB).  
This mixture contains no substance considered to be persistent, bioaccumulative and toxic (PBT).

**PBT and vPvB assessment** 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).

**12.6 Other adverse effects**

**Additional ecological information** No other effects to be mentioned.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Product** Do not empty into drains.  
Dispose of unused product in its container at a household waste site (civic amenity site).  
Contact your local council (local authority) for details.

**Contaminated packaging** Dispose of empty container in the dustbin.  
Follow advice on product label and/or leaflet.

**SECTION 14: TRANSPORT INFORMATION**

Segregation group according to 5.4.1.5.11.1 IMDG SEGREGATION GROUP 2 - AMMONIUM COMPOUNDS

**According to ADN/ADR/UK 'Carriage' Regulations/RID/IMDG/IATA not classified as dangerous goods.**

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**14.1 – 14.5** Not applicable.

**14.6 Special precautions for user**

See sections 6 to 8 of this Safety Data Sheet.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

No transport in bulk according to the IBC Code.

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**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK and Northern Ireland Regulatory References**

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

**Transport**

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367)

Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

**Supply and Use**

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)

Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009

Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)

EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits

Control of Pesticide Regulations 1986

Dangerous Substances and Explosive Atmospheres Regulations 2002

**Waste Treatment**

Environmental Protection Act 1990, Part II

Environmental Protection (Duty of Care) Regulations 1991

The Waste Management Licensing Regulations 1994 (as amended)

Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended)

Landfill Directive

Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

Water Resources Act 1991

Anti-Pollution Works Regulations 1999

**Further information**

WHO-classification: III (Slightly hazardous)

**15.2 Chemical Safety Assessment**

A chemical safety assessment is not required.

**SECTION 16: OTHER INFORMATION****Text of the hazard statements mentioned in Section 3**

H411 Toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms**

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

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Conc.	Concentration
EC-No.	European community number
ECx	Effective concentration to x %
EH40 WEL	Worker Exposure Limit
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SI	Statutory Instrument
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

**Reason for Revision:** Initial version

Changes since the last version are highlighted in the margin. This version replaces all previous versions.