

JOB DONE PATH WEEDKILLER RTU

84086436

1/18

Creation Date: 06.12.2017

Revision Date:

Version: 1 / Great Britain

SECTION I: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product Name	JOB DONE PATH WEEDKILLER RTU
Formulation code	84086436
Market Authorization Number	18229 (MAPP number)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use	Herbicide Product for the protection of plants (REACH PC27)
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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
Phone number	+44 (0)1223 563108
Fax number	+44 (0)1223 851369
Responsible Department	uk.gardenadvice@sbm-company.com QHSE Department Email: sds@corp.sbm-company.com

1.4 Emergency telephone number

Emergency telephone Number SBM	+1 813-676-1669
UK emergency telephone Number	(+44) 0800 220 876

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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.

Physical Hazards:

No classification for physical hazards.

Health and Safety Hazards:

No classification for health and safety hazards.

Environmental Hazards:

Chronic aquatic toxicity – Category 1

H410 Very toxic 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, isopropylamine salt.

Pictograms of hazards:



Signal word: Warning.

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements:

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P302	IF ON SKIN: wash with plenty of soap and water.
P332	If skin irritation occurs: get medical advice / attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing.
P337 + P313	If eye irritation persists get medical advice / attention.

Additional mentions:

EUH208	Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Additional labelling:

No additional labelling required.

2.3 Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Not concerned.

3.2 Mixtures**Chemical nature**

Any other liquids (AL)
 Diflufenican 0.30 g/L ; Glyphosate-isopropylaminsalt 2.5 g/L.

Hazardous components

Hazard statements in accordance with Regulation (EC) No. 1907/2006

Ingredients	CAS Number / EC Number / Index Number	REACH Number / recording	Classification	Environmental Hazards	Conc % (w/w)
			Regulation 1272/2008/EC		
Diflufenican	86164-33-4 /	No information available	Aquatic Chronic 3, H412	No information available	0.03

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	No information available / No information available				
Glyphosate, isopropylamine salt	38641-94-0 / 254-056-8 / No information available	No information available	Aquatic Chronic 2, H411	No information available	2.5
1.2-benzisothiazol-3(2H)-one	2634-33-5 / 220-120-9 / No information available	No information available	Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302 Skin Sens. 1, H317 Skin Irrit. 2, H315	No information available	>0.0002 -< 0.05
N-Octyl-2-pyrrolidinone	2687-94-7 / 403-700-8 / No information available	No information available	Skin Corr. 1B, H314 Aquatic Chronic 2, H411	No information available	>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**

General advice	Move out of dangerous area. Remove contaminated clothing immediately and dispose of safely. Place and transport victim in stable position (lying sideways).
Inhalation	Move to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at list 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison center immediately. Do NOT induce vomiting. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No symptoms known or expected.
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4.3 Indication of any immediate medical attention and special treatment needed

Hazards	No information available.
Treatments	Treat symptomatically. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. There is no specific antidote.

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

Special hazards arising from the substance or mixture	In the event of fire the following may be released: hydrogen cyanide (hydrocyanic acid), carbon monoxide (CO), nitrogen oxides (NO _x).
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5.3 Advice for firefighters

Special protective equipment for firefighters	In the event of fire and / or explosion do not breath fumes. In the event of fire, wear self-contained breathing apparatus.
Further information	Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Ensure adequate ventilation. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. Evacuate hazardous areas and follow emergency procedures.

For emergency responders Ensure adequate ventilation. Wear adequate personal protective equipment. Keep unnecessary and unprotected personnel away from the spillage.

6.2 Environmental precautions

Environmental precautions Do not allow to get into surface water, drains and ground water.

6.3 Methods and materials for containment and cleaning up

Methods for containment Contain the spread.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

Additional advice No additional advice.

6.4 Reference to other sections

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

7.1 Precautions for safe handling

Advice on safe handling Use only in area provided with appropriate exhaust ventilation.

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Advice on protection against fire and explosion No special precautions required.

Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Protect from freezing.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

Suitable materials HDPE (high density polyethylene).

7.3 Specific end use(s)

Specific end use(s) Refer to the label and / or leaflet.

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

Types of exposures (occupational exposure, biological exposure)	Components	CAS Number	Exposure limit values	Sources of the exposures	Update	Base
Occupational exposure	Diflufenican	83164-33-4	5.5 mg/m ³ (TWA)	No information available	No information available	No information available

Further information:

No further information.

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8.2 Exposure controls**Appropriate engineering controls**

Appropriate engineering controls Ensure an adequate ventilation. Eyes shower and safety shower must be placed close to the work area.

Individual protective measures, such as personal protective equipment

All the measures for collective protection should be set and use before to consider the use of 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 Respiratory protection is not required under anticipated circumstances of exposure. 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.

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 contact time. 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.
Material: nitril rubber;
Rate of permeability: > 480 min;
Glove thickness: > 0.4 mm;
Directive: protective gloves complying with EN 374.

Eye protection Wear goggles (conforming to EN166, field of use = 5 or equivalent).

Skin and body protection Wear standard coveralls and Category 3 type 6 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.

Thermal protection No information available.

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Environmental exposure controls

Environmental exposure controls	Avoid spread in the environment. DO NOT contaminate the drains, surface waters and ground waters.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance	Liquid, clear to slightly turbid.
Colour	Colourless to slightly white.
Odour	Weak.
Odour threshold	No information available.
pH	No information available.
Melting point / freezing point	No information available.
Initial boiling point and boiling range	No information available.
Flash Point	>101°C. No flash point – Determination conducted up to the boiling point.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper / lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	Ca. 1.00 g/cm ³ at 20°C.
Solubility in water	No information available.

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10.5 Incompatible materials

Incompatible materials Store only in the original container.

10.6 Hazardous decomposition products

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD50 > 2 000 mg/Kg – Rat.

Acute inhalation toxicity No information available.

Acute dermal toxicity LD50 > 2 000 mg/Kg – Rat.

Skin irritation / corrosion No skin irritation – Rabbit.

Serious eye damage / irritation No eye irritation – Rabbit.

Respiratory sensitisation No information available.

Skin sensitisation Non-sensitizing – Mouse.
OECD Test Guideline 429, local lymph node assay (LLNA).

Carcinogenicity:

Diflufenican: Not carcinogenic in lifetime feeding studies in rats and mice.
Glyphosate: Not carcinogenic in lifetime feeding studies in rats and mice.

Germ cell mutagenicity:

Diflufenican: Not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Glyphosate: Not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

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Reproductive toxicity and fertility:

Diflufenican: Did not cause developmental toxicity in rats and rabbits.

Glyphosate: Did not cause developmental toxicity in rats and rabbits.

Specific target organ toxicity (single exposure / repeated exposure):

Single Exposure: No information available.

Repeated Exposure: Diflufenican: Did not cause specific target organ toxicity in experimental animal studies. Glyphosate: Did not cause specific target organ toxicity in experimental animal studies.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Other information

No other information.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity to fish	No information available.
Toxicity to aquatic invertebrates	No information available.
Toxicity to aquatic plants	EC50 = 1.94 mg/L <i>Desmodesmus subspicatus</i> (green alga) Growth rate; Exposure Time: 72 h. NOEC < 0.0954 mg/L <i>Desmodesmus subspicatus</i> (green alga) Growth rate; Exposure Time: 72 h. EC50 = 126 mg/L <i>Lemna gibba</i> (gibbous duckweed) Growth rate; Exposure Time: 7 d.
Toxicity for bees	No information available.
Toxicity for earth-worms	No information available.

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Toxicity for birds No information available.

12.2 Persistence and degradability

Biodegradability Diflufenican: Not rapidly biodegradable.
Glyphosate: Not rapidly biodegradable.

Koc Diflufenican: Koc = 3417.
Glyphosate: Koc = 6920.

12.3 Bioaccumulative potential

Bioaccumulation Diflufenican: bioconcentration factor (BCF) = 1.596
Does not bioaccumulate.
Glyphosate: does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Diflufenican: Slightly mobile in soils.
Glyphosate: Immobile in soil.

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Diflufenican: 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).
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.

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

Generalities	Avoid spread in the environment. Handle contaminated packaging like it is the product itself. DO NOT mix the product or packaging with other wastes.
Product	In accordance with current regulations and, if necessary, after consultation with the site operator and / or with the responsible authority the product may be taken to waste disposal site or incineration plant.
Contaminated packaging	Not completely emptied packagings should be disposed of as hazardous waste.

SECTION 14: TRANSPORT INFORMATION**ADR/RID/ADN**

14.1 UN number	UN 3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (GLYPHOSATE ISOPROPYLAMMONIUM SALT SOLUTION).
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES
Hazard no.	90

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

IMDG

14.1 UN number	UN 3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (GLYPHOSATE ISOPROPYLAMMONIUM SALT SOLUTION).
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marin pollutant	YES

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IATA

14.1 UN number	UN 3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (GLYPHOSATE ISOPROPYLAMMONIUM SALT SOLUTION).
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES

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.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Further information**

WHO-Classification	III (Slightly hazardous).
Conformity with REACH annexes	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Conformity with CLP	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Specific provisions:

No specific provisions.

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15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION**Text of the precautionary statements (P sentences) mentioned in Section 2:**

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P302	IF ON SKIN: wash with plenty of soap and water.
P332	If skin irritation occurs: get medical advice / attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing.
P337 + P313	If eye irritation persists get medical advice / attention.

Text of the hazard statements (H sentences) mentioned in Sections 2 and 3:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Text of hazards classes and categories mentioned in Sections 2 and 3:

Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity – Category 1.
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity – Category 1.
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity – Category 2.
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity – Category 3.
Acute Tox. 4	Acute toxicity – Category 4.
Eye Dam. 1	Serious eye damage / eye irritation – Category 1.
Skin Corr. 1B	Skin corrosion / irritation – Category 1B.
Skin Irrit. 2	Skin irritation – Category 2.
Skin Sens. 1	Skin sensitization – Category 1.

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Abbreviations and acronyms

ADI	Acceptable Daily Intake
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
ARfD	Acute Reference Dose
A.S	Active Substance
ATE	Acute toxicity estimate
BCF	Bioconcentration Factor
CAS-Nr.	Chemical Abstracts Service number
CLP	Classification, Labelling, Packaging regulation
Conc.	Concentration
DMEL	Derived Minimal Effect Levels
DNEL	Derived No Effect Level
EC-No.	European community number
ECx	Effective concentration to x %
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
Koc	Absorption Coefficient
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
NOEC/NOEL	No observed effect concentration/level
N.O.S.	Not otherwise specified
OECD	Organization for Economic Co-operation and Development
OSHA	Occupational Safety and Health Administration
PBT	Persistent, Bioaccumulative and Toxic substances
PNEC	Predicted No Effect Concentration
Pow	Partition coefficient: n-octanol / water
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substance of Very High Concern
TWA	Time weighted average
vPvB	Very Persistent and Very Bioaccumulative
UN	United Nations
WHO	World health organisation

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Methods used for classification:

The classification of the product "Job Done General Tough Weedkiller RTU" was calculated according to the methods described in EC 1272/2008 regulation, with regards to the dangers for the environment and for health.

Further information:

Note from SBM Life Science: This SDS was elaborated according to the SDS of the producer of the product.

Purpose of the reviewing:

Initial version.

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

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge and the legislative and regulatory texts available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The information given in this data sheet have to be consider as a description of the requirements for the product and not consider as a guarantee or a quality specification concerning its properties. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.