SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



1/11

PATH & DRIVE WEEDKILLER

Version 3 / GB Revision Date: 04.12.2014 102000023526 Print Date: 14.05.2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name PATH & DRIVE WEEDKILLER

Product code (UVP) 80231652

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 Bayer CropScience Limited

230 Cambridge Science Park

Milton Road Cambridge

Cambridgeshire CB4 0WB

United Kingdom

Telephone +44(0)1223 226500 Telefax +44(0)1223 426240

Responsible Department Email: gardening.adviser@bayergarden.co.uk

1.4 Emergency telephone no.

Emergency telephone no. 0800-220876 (UK 24 hr)

+44(0)1635-563000 (Overseas 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 2

H411 Toxic to aquatic life with long lasting effects.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

N Dangerous for the environment, R51/53

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:

- Flufenacet
- Metosulam
- Glyphosate



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Hazard statements

H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains 1,2-Benzisothiazolin-3-one, 5-chloro-2-methyl-isothiazol-3-one/2-methyl-

isothiazol-3-one. May produce an allergic reaction.

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.

P102 Keep out of reach of children.

P260 Do not breathe spray.

P271 Use only outdoors or in a well-ventilated area.

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

Any other liquids (AL)

Flufenacet/Metosulam/Glyphosate 0,6:0,03:1,77 g/l

Hazardous components

R-phrase(s) according to EC directive 67/548/EEC

Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No./	Classification		Conc. [%]
	EC-No.	EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Flufenacet	142459-58-3 604-290-5	Xn; R22, R48/22 R43 N; R50/53	Acute Tox. 4, H302 STOT RE 2, H373 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	0.06
Metosulam	139528-85-1 604-145-6	Carc.Cat.3 R40 Xn; R48/22 N; R50/53	Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	0.003
Glyphosate	1071-83-6 213-997-4	Xi; R41 N; R51/53	Eye Dam. 1, H318 Aquatic Chronic 2, H411	0.18
Fatty alcohol polyglycol ether	61791-13-7	Xn; R22 Xi; R41	Acute Tox. 4, H302 Eye Dam. 1, H318	> 1.00 - <= 3.00
Benzyl alcohol	100-51-6 202-859-9	Xn; R20/22	Acute Tox. 4, H332 Acute Tox. 4, H302 Eye Irrit. 2, H319	> 1.00 - < 10.00
1,2-Benzisothiazol- 3(2H)-one	2634-33-5 220-120-9	Xn; R22 Xi; R38, R41	Acute Tox. 4, H302 Skin Irrit. 2, H315	> 0.005 - < 0.05

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PATH & DRIVE WEEDKILLER

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		R43 N; R50	Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	
Mixture of 5-Chlor- 2-methyl-3(2H)- isothiazolon and 2- Methyl-2H- isothiazol-3-on	55965-84-9	T; R23/24/25 C; R34 R43 N; R50/53	Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	> 0.0002 - < 0.0015

Further information

Flufenacet	142459-58-3	M-Factor: 100 (acute)
Metosulam	139528-85-1	M-Factor: 1,000 (acute), 100 (chronic)

For the full text of the R-phrases/ Hazard 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. Place and transport victim in stable

position (lying sideways). Remove contaminated clothing immediately

and dispose of safely.

Inhalation Move to fresh air. Keep patient warm and at rest. If symptoms persist,

call a physician.

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 eyes immediately with plenty of water,

also under the evelids, 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 The absorption of this product into the body may lead to the formation

of methaemoglobine that, in sufficient concentration, causes cyanosis.

4.3 Indication of any immediate medical attention and special treatment needed

Risks Danger of formation of methaemoglobin.

Treatment Initial treatment: symptomatic. In the event of a mouthful or more being

ingested, the following measures should be considered: In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. In case of methaemoglobinemia, oxygen and specific antidotes (methylene blue/

toluidine blue) should be given.

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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.

5.3 Advice for firefighters

Special protective

equipment for fire-fighters

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. 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 Keep in suitable, closed containers for disposal. Clean floors and

contaminated objects with plenty of water. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust).

6.4 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 No specific precautions required when handling unopened

packs/containers; follow relevant manual handling advice. Ensure

adequate ventilation.

Hygiene measures 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

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Requirements for storage areas and containers

Store in original container and out of the reach of children, preferably in a locked storage area. Keep away from direct sunlight. Protect from freezing. Keep containers tightly closed in a dry, cool and well-ventilated

place.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end uses

Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Flufenacet	142459-58-3	0.47 mg/m3 (TWA)		OES BCS*
Metosulam	139528-85-1	0.7 mg/m3 (TWA)		OES BCS*

^{*}OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

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:

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 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 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 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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form Liquid, clear Colour light yellow

Odour weak, characteristic

Flash point Not relevant; aqueous solution

Density ca. 1.00 g/cm³ at 20 °C

Water solubility miscible

Partition coefficient: n-

octanol/water

Flufenacet: log Pow: 3.2

Metosulam: log Pow: 2.46 at pH 7

Glyphosate: log Pow: -2.9

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 ofNo hazardous reactions when stored and handled according to

hazardous reactions prescribed instructions.

10.4 Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials Store only in the original container.

10.6 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 (rat) > 5,000 mg/kg

Test conducted with a similar formulation.

Acute inhalation toxicity LC50 (rat) > 5.067 mg/l

Exposure time: 4 h

Determined in the form of a respirable aerosol.

Highest attainable concentration.

Test conducted with a similar formulation.

Acute dermal toxicity LD50 (rat) > 4,000 mg/kg

Test conducted with a similar formulation.

Skin irritation No skin irritation (rabbit)

Test conducted with a similar formulation.

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Eye irritation No eye irritation (rabbit)

Test conducted with a similar formulation.

Sensitisation Non-sensitizing. (guinea pig)

OECD Test Guideline 406, Magnusson & Kligman test

Test conducted with a similar formulation.

Assessment repeated dose toxicity

Flufenacet caused neurobehavioral effects and/or neuropathological changes in animal studies.

Metosulam caused specific target organ toxicity in experimental animal studies in the following organ(s): kidneys, liver, Eyes.

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

Assessment Mutagenicity

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

Assessment Carcinogenicity

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

Metosulam caused an increased incidence of kidney tumours in rats at high dose levels. Metosulam was not carcinogenic in lifetime feeding studies in mice.

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

Assessment toxicity to reproduction

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

Assessment developmental toxicity

Flufenacet caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Flufenacet are related to maternal toxicity.

Metosulam did not cause developmental toxicity in rats and rabbits. Glyphosate did not cause developmental toxicity in rats and rabbits.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 2.13 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient flufenacet.

LC50 (Oncorhynchus mykiss (rainbow trout)) > 77.5 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient metosulam.

LC50 (Oncorhynchus mykiss (rainbow trout)) 95 - 171 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient glyphosate.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 30.9 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient flufenacet.

EC50 (Daphnia magna (Water flea)) > 100 mg/l

Exposure time: 48 h

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The value mentioned relates to the active ingredient metosulam.

EC50 (Daphnia magna (Water flea)) 87 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient glyphosate.

Toxicity to aquatic plants EC50 (Pseudokirchneriella subcapitata) 4.93 mg/l

Growth rate; Exposure time: 72 h

Test conducted with a similar formulation.

12.2 Persistence and degradability

Biodegradability Flufenacet:

not rapidly biodegradable

Metosulam:

not rapidly biodegradable

Glyphosate:

not rapidly biodegradable

Koc Flufenacet: Koc: 202

Metosulam: Koc: 166

Glyphosate: Koc: 884 - 60000

12.3 Bioaccumulative potential

Bioaccumulation Flufenacet: Bioconcentration factor (BCF) 71

Does not bioaccumulate.

Metosulam:

Does not bioaccumulate.

Glyphosate: Bioconcentration factor (BCF) < 1

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Flufenacet: Moderately mobile in soils

Metosulam: Moderately mobile in soils Glyphosate: Slightly mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Flufenacet: 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).

Metosulam: 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.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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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.

Waste key for the unused

product

020108 agrochemical waste containing dangerous substances

SECTION 14: TRANSPORT INFORMATION

ADR/RID/ADN

14.1 UN number 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(FLUFENACET, METOSULAM SOLUTION)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environm. Hazardous Mark
Hazard no.
700
Tunnel Code
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12

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 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(FLUFENACET, METOSULAM SOLUTION)

14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Marine pollutant YES

IATA

14.1 UN number **3082**

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(FLUFENACET, METOSULAM SOLUTION)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environm. Hazardous Mark
YES

UK 'Carriage' Regulations

14.1 UN number 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(FLUFENACET, METOSULAM SOLUTION)

14.3 Transport hazard class(es) 9
14.4 Packing group III

14.5 Environm. Hazardous Mark YES Emergency action code 3Z

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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 73/78 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 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: U (Unlikely to present acute hazard in normal use)

15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION

Text of R-phrases mentioned in Section 3

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns. R38 Irritating to skin.

R40 Limited evidence of a carcinogenic effect.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



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PATH & DRIVE WEEDKILLER

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R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50 Very toxic to aquatic organisms.
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.

Text of the hazard statements mentioned in Section 3

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs (kidneys, liver, Eyes) through prolonged or repeated exposure.
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.

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.

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