

Version 9/GB 10200007762 1/13 Revision Date: 19.04.2016 Print Date: 04.05.2016

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

1.1 Product identifier	
Trade name	LONGBOW
Product code (UVP)	05896401
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Use	Herbicide
1.3 Details of the supplier of	f the safety data sheet
Supplier	Bayer Environmental Science 230 Cambridge Science Park Milton Road Cambridge Cambridgeshire CB4 0WB United Kingdom
Telephone	00800-1214 9451
Telefax	+44(0)1223 426240
Responsible Department	Email: ukinfo@bayercropscience.com
1.4 Emergency telephone no	D.
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.

Eye irritation: Category 2 H319 Causes serious eye irritation.

Acute toxicity: Category 1 H400 Very toxic to aquatic life.

Acute 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:



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- MCPA
- 2,4-D
- mecoprop-P [1] and its salts, (R)-2-(4-chloro-2-methylphenoxy)propionic acid
- Dicamba



Signal word: Warning

Hazard statements

H319 H410 EUH208 EUH401	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains 2,4-D. May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions for
	use.

Precautionary statements

	P280 P305 + P351 + P338 P337 + P313 P501	Wear protective gloves/ protective clothing/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non- hazardous waste.
l		hazardous waste.

2.3 Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Soluble concentrate (SL) MCPA /2,4-D/Mecoprop-P/Dicamba 70:70:42:20 g/l acid equivalent as DMA salts

Hazardous components

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

Name	CAS-No. / EC-No. / REACH Reg. No.	Classification Regulation (EC) No 1272/2008	Conc. [%]
MCPA, DMA salt	2039-46-5 218-014-2	Acute Tox. 4, H302, H312, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	7.7 – 9.2
2,4-D, dimethylamine salt	2008-39-1 217-915-8	Acute Tox. 4, H302 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 2, H411	7.4 – 8.9
Mecoprop-P-	66423-09-4	Eye Dam. 1, H318	4.7 – 5.6



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dimethylamine salt	240-539-0	Acute Tox. 4, H302 Aquatic Chronic 2, H411	
Dicamba, dimethylamine salt	2300-66-5 218-951-7	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	2.3 – 2.8

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. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).	
Inhalation	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately. Oxygen or artificial respiration if needed.	
Skin contact	Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.	
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.	
4.2 Most important symptoms	s and effects, both acute and delayed	
Symptoms	If large amounts are ingested, the following symptoms may occur:	
	Apathy, Shortness of breath, Acidosis, Diarrhoea, Fever, Gastrointestinal disturbance, Cough, Hypotension, Coma, Spasm, Circulatory collapse, Liver and kidney injuries may occur., muscular weakness, Miosis, Kidney disorders, Irritation, Rhabdomyolysis, State of shock, Somnolence, Tachycardia, Nausea	
ll	Symptoms and hazards refer to effects observed after intake of significant amounts of the active ingredient(s).	
4.3 Indication of any immediate medical attention and special treatment needed		
Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. 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. Elimination by dialysis (forced alkaline diuresis). There is no specific antidote.	



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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	In the event of fire the following may be released:, Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NOx)
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. Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions	Avoid contact with spilled product or contaminated surfaces. Ensure adequate ventilation. 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	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean floors and contaminated objects with plenty of water.
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. For personal protection see section 8.		



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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 thoroughly with soap and water after handling. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).	
7.2 Conditions for safe stora	ge, 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. Protect from freezing. Keep away from direct sunlight. 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. Protect from freezing.	
Advice on common storage	Keep away from food, drink and animal feedingstuffs. Do not store together with oxidizing agents. Do not store near acids. Do not store with alkalis.	
Storage stability		
Storage period	24 Months	
7.3 Specific end use(s)	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 and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Tonowing recommendations we	
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 the contact time. Wash gloves when contaminated. Dispose of when contaminated



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	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 Nitrile 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 4 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.	
General protective measures	If product is handled while not enclosed, and if contact may occur: Complete suit protecting against chemicals	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Form	Liquid
Colour	brown
Odour	amine-like
рН	9 - 10
Flash point	>110 °C
Auto-ignition temperature	> 603 °C
Density	ca. 1.07 g/cm³ at 20 °C
Water solubility	completely soluble
Partition coefficient: n- octanol/water	MCPA: log Pow: 1.4
	2,4-D dimethylamine salt: log Pow: 0.65 Mecoprop-P: log Pow: 0.02 Dicamba: log Pow: 0.55
Viscosity, kinematic	2.337 mm2/s at 40 °C
Surface tension	69.9 mN/m
Oxidizing properties	No oxidizing properties
Explosivity	Not explosive
9.2 Other information	Further safety related physical-chemical data are not known.

9.1 Information on basic physical and chemical properties



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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	Strong acids, Strong bases, Strong oxidizing agents, 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 > 2,000 mg/kg
Acute inhalation toxicity	During intended and foreseen applications, no respirable aerosol is formed.
Acute dermal toxicity	LD50 > 2,000 mg/kg
Skin irritation	No skin irritation (Rabbit)
Eye irritation	Irritating to eyes. (Rabbit)
Sensitisation	Non-sensitizing.

Assessment repeated dose toxicity

MCPA did not cause specific target organ toxicity in experimental animal studies. 2,4-D dimethylamine salt did not cause specific target organ toxicity in experimental animal studies. Mecoprop-P did not cause specific target organ toxicity in experimental animal studies. Dicamba did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

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

2,4-D dimethylamine salt was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Mecoprop-P was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

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

Assessment carcinogenicity

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

2,4-D was not carcinogenic in lifetime feeding studies in rats and mice.

Mecoprop-P caused an increased incidence of tumours in mice in the following organ(s): Liver. The mechanism that triggers these tumours is not relevant to humans.

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



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Assessment toxicity to reproduction

MCPA did not cause reproductive toxicity in a two-generation study in rats. 2,4-D did not cause reproductive toxicity in a two-generation study in rats. Mecoprop-P did not cause reproductive toxicity in a two-generation study in rats. Dicamba did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

MCPA caused developmental toxicity only at dose levels toxic to the dams. 2,4-D dimethylamine salt caused developmental toxicity only at dose levels toxic to the dams. Mecoprop-P caused developmental toxicity only at dose levels toxic to the dams. Mecoprop-P caused a delayed foetal growth.

Dicamba did not cause developmental toxicity in rats and rabbits.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Fish) >110 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) >110 mg/l Exposure time: 48 h
Toxicity to aquatic plants	EC50 (Algae) > 800 mg/l Growth rate; Exposure time: 72 h
	EC50 (Lemna gibba (gibbous duckweed)) 68.9 mg/l Growth rate; Exposure time: 7 d
	EC50 (Myriophyllum spicatum (Eurasian watermilfoil)) 0.3 - 1 mg/l Growth rate; Exposure time: 14 d
	NOEC (Myriophyllum spicatum (Eurasian watermilfoil)) 0.03 - 0.1 mg/l Exposure time: 14 d
12.2 Persistence and degrad	ability
Biodegradability	MCPA: Not rapidly biodegradable 2,4-D dimethylamine salt: Not rapidly biodegradable Mecoprop-P: rapidly biodegradable Dicamba: Not rapidly biodegradable
Кос	MCPA: Koc: 50 - 60 2,4-D dimethylamine salt: Koc: 72 - 471 Mecoprop-P: Koc: 135 - 167 Dicamba: Koc: 5.1
12.3 Bioaccumulative potential	
Bioaccumulation	MCPA: Bioconcentration factor (BCF) 1 Does not bioaccumulate. 2,4-D dimethylamine salt: Bioconcentration factor (BCF) 0.1



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	Does not bioaccumulate. Mecoprop-P: Bioconcentration factor (BCF) 3 Does not bioaccumulate. Dicamba: Does not bioaccumulate.
12.4 Mobility in soil	
Mobility in soil	MCPA: Mobile in soils 2,4-D dimethylamine salt: Moderately mobile in soils Mecoprop-P: Mobile in soils Dicamba: Highly mobile in soils
12.5 Results of PBT and vPv	B assessment
PBT and vPvB assessment	MCPA: 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). 2,4-D dimethylamine salt: 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). Mecoprop-P: 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). Dicamba: 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 m	ethods
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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 a waste disposal site or incineration plant. Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).
Contaminated packaging	Small containers (< 10 I or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.
Waste key for the unused product	02 01 08* agrochemical waste containing dangerous substances

SECTION 14: TRANSPORT INFORMATION

ADR/RID/ADN 14.1 UN number



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14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MCPA DMA SALT, 2,4-D DMA SALT SOLUTION)
14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environm. Hazardous Mark	9
14.4 Packing group	
14.5 Environm. Hazardous Mark	YES
Hazard no.	90
Tunnel Code	E

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

IMDG

INIDG	
14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (MCPA DMA SALT, 2,4-D DMA SALT SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	
14.5 Marine pollutant	YES
ΙΑΤΑ	
14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S.
14.2 Transport beyond close(ee)	(MCPA DMA SALT, 2,4-D DMA SALT SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group 14.5 Environm. Hazardous Mark	YES
	125
UK 'Carriage' Regulations	
14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S.
	(MCPA DMA SALT, 2,4-D DMA SALT SOLUTION)
14.3 Transport hazard class(es)	9

14.6 Special precautions for user

14.5 Environm. Hazardous Mark

14.4 Packing group

Emergency action code

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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YES

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

UK and Northern Ireland Regulatory References



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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

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eve damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- 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.

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



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	Road
ATE	Acute toxicity estimate (ATE)
CAS-Nr.	Chemical Abstracts Service number
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.

Note Bayer CropScience:

This data sheet has been generated according to the safety data sheet supplied by the manufacturer of the product:

AGRIPHAR S.A.

Reason for Revision:

Safety Data Sheet according to Regulation (EU) No. 2015/830. Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients. Section 16: Other Information.

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



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