

**LAWN WEEDKILLER RTU3 AL 6X750ML BOT GB**

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Version 3 / EU
102000017684Revision Date: 07.04.2014
Print Date: 13.08.2014**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Trade name LAWN WEEDKILLER RTU3 AL 6X750ML BOT GB
Product code (UVP) 79088663

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 AG
Alfred-Nobel-Straße 50
40789 Monheim am Rhein
Germany

Telefax +49(0)2173-38-7394

Responsible Department Product Safety and Specification Management
+49(0)2173-38-3409/3685 (during business hours only)
Email: BCS-SDS@bayer.com

1.4 Emergency telephone no.

Emergency telephone no. Global Incident Response Hotline
+1 (760) 476-3964 (Company 3E for Bayer CropScience)

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.

Not classified, the classification criteria are not met.

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

Not classified, the classification criteria are not met.

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:

- 2,4-D, dimethylamine salt
- MCPA, DMA salt
- Mecoprop-P-dimethylamine salt
- Dicamba, dimethylamine salt

Hazard statements

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.

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No particular hazards known.

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

Any other liquids (AL)

2,4-D/MCPA/Mecoprop-p/Dicamba 0,7:0,7:0,42:0,2 g/l as Dimethylamine salts

Hazardous components

R-phrases according to EC directive 67/548/EEC

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

Name	CAS-No. / EC-No.	Classification		Conc. [%]
		EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
2,4-D, dimethylamine salt	2008-39-1 217-915-8	Xn; R22 Xi; R41 R43 N; R51/53	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	>= 0,07 - <= 0,09
MCPA, DMA salt	2039-46-5 218-014-2	Xn; R20/21/22 N; R50/53	Acute Tox. 4, H302, H312, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	>= 0,07 - <= 0,09
Mecoprop-P- dimethylamine salt	66423-09-4 613-932-3	Xn; R22 Xi; R41 N; R51/53	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411	>= 0,04 - <= 0,06
Dicamba, dimethylamine salt	2300-66-5 218-951-7	Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	>= 0,02 - <= 0,03

Further information

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**

When symptoms develop and persist, seek medical advice.

Inhalation

Move the victim to fresh air and keep at rest.

Skin contact

Wash off immediately with soap and plenty of water.

Eye contact

Remove contact lens and rinse eyes immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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

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Symptoms Diarrhoea, Vomiting, Nausea, Breathing difficulties, Somnolence, Slight irritation

4.3 Indication of any immediate medical attention and special treatment needed

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. Forced alkaline diuresis and hemodialysis may be considered. There is no specific antidote.

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

Suitable Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)

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), Nitrogen oxides (NO_x), Carbon monoxide (CO)

5.3 Advice for firefighters

Special protective equipment for fire-fighters In the event of fire, wear self-contained breathing apparatus.

Further information 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. When dealing with a spillage do not eat, drink or smoke.

6.2 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 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 contaminated surface thoroughly.

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.

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

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Hygiene measures When using, do not eat, drink or smoke. Wash hands immediately after work, if necessary take a shower. Remove contaminated clothing immediately and dispose of safely.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers 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.

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

No control parameters known.

8.2 Exposure controls**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 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.

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

Form	Liquid
Colour	light brown
Odour	slight
pH	9 - 10 at 100 % (20 °C)
Flash point	>79 °C

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Density	ca. 1,00 g/cm ³ at 20 °C
Water solubility	completely soluble
Partition coefficient: n-octanol/water	2,4-D dimethylamine salt: log Pow: 0,65 MCPA: log Pow: 1,4 Mecoprop-P: log Pow: 0,02 Dicamba: log Pow: 0,55
Viscosity, kinematic	0,68 mm ² /s
Surface tension	48,1 mN/m at 40 °C 50,8 mN/m at 25 °C

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

not applicable

10.4 Conditions to avoid Extremes of temperature and direct sunlight.**10.5 Incompatible materials** Strong oxidizing agents, Strong acids, Strong bases**10.6 Hazardous decomposition products** Hydrogen chloride (HCl)
Nitrogen oxides (NO_x)
Carbon monoxide**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute oral toxicity** LD50 (rat) > 2.000 mg/kg**Acute inhalation toxicity** Not relevant**Acute dermal toxicity** LD50 (rat) > 2.000 mg/kg**Skin irritation** No skin irritation (rabbit)**Eye irritation** No eye irritation (rabbit)**Sensitisation** Non-sensitizing.**Assessment repeated dose toxicity**

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

MCPA 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

2,4-D dimethylamine salt was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

MCPA 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

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2,4-D was not carcinogenic in lifetime feeding studies in rats and mice.
MCPA was not carcinogenic in lifetime feeding studies in rats and mice.
Mecoprop-P caused an increased incidence of tumours in the following organ(s): . The mechanism that triggers these tumours is not relevant to humans.
Dicamba was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction

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

2,4-D dimethylamine salt caused developmental toxicity only at dose levels toxic to the dams.
MCPA 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**12.1 Toxicity**

Toxicity to fish	LC50 (Fish) > 110 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Water flea (Daphnia magna)) > 110 mg/l Exposure time: 48 h
Toxicity to aquatic plants	EC50 (Algae) > 488 mg/l Growth rate; Exposure time: 72 h EC50 (Lemna gibba (duckweed)) 830 mg/l Growth rate

12.2 Persistence and degradability

Biodegradability	2,4-D dimethylamine salt: not rapidly biodegradable MCPA: not rapidly biodegradable Mecoprop-P: rapidly biodegradable Dicamba: not rapidly biodegradable
Koc	2,4-D dimethylamine salt: Koc: 72 - 471 MCPA: Koc: 50 - 60 Mecoprop-P: Koc: 135 - 167 Dicamba: Koc: 5,1

12.3 Bioaccumulative potential

Bioaccumulation	2,4-D dimethylamine salt: Bioconcentration factor (BCF) 0,1 Does not bioaccumulate. MCPA: Bioconcentration factor (BCF) 1 Does not bioaccumulate. Mecoprop-P: Bioconcentration factor (BCF) 3 Does not bioaccumulate.
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Does not bioaccumulate.**12.4 Mobility in soil****Mobility in soil**

2,4-D dimethylamine salt: Moderately mobile in soils

MCPA: Mobile in soils

Mecoprop-P: Mobile in soils

Dicamba: Highly mobile in soils

12.5 Results of PBT and vPvB assessment**PBT and vPvB assessment**

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).
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).
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 further ecological information is available.

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

Contaminated packaging

Not completely emptied packagings should be disposed of as hazardous waste.

Waste key for the unused product

200119 pesticides

SECTION 14: TRANSPORT INFORMATION**According to ADN/ADR/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 73/78 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

Further information

WHO-classification: III (Slightly hazardous)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: OTHER INFORMATION

Text of R-phrases mentioned in Section 3

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation 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.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 eye 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.

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 453/2010 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 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 required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

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. 453/2010. Section 11: Toxicological Information. Section 12. Ecological information.



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