

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

Afalon

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 2
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Afalon

Pure substance/mixture Mixture

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

Recommended Use Herbicide

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address ADAMA Agricultural Solutions UK Ltd

Unit 15, Thatcham Buisness Village Colthrop Way, Thatcham Berkshire RG19 4LW, UK: 01635 860555

Fax: 01635 861555

For further information, please contact

Email address ukenquiries@adama.com

1.4. Emergency telephone number

Emergency Telephone National Chemical Emergency Centre (UK):

Tel: 01865 407333 (24 hours)

Section 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Carcinogenicity
Category 2 - (H351)
Reproductive Toxicity
Category 1B - (H360Df)
Specific target organ toxicity
Category 2 - (H373)

(repeated exposure)

Acute aquatic toxicity
Category 1 - (H400)
Hazardous to the Aquatic
Category 1 - (H410)

Environment - Chronic Hazard

Classification according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see section 16

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Carc. cat. 3;R40 - Repr. cat. 2;R61 - Repr. cat. 3;R62 - Xn;R48/22 - N;R50-53

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Signal word Danger

Hazard Statements H351 - Suspected of causing cancer

H360Df - May damage the unborn child. Suspected of damaging fertility H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection P501 - Dispose of contents/ container to an approved waste disposal plant

EU Specific Hazard Statements EUH401 - To avoid risks to human health and the environment, comply with the instructions

for use

EUH208 - Contains 1,2-Benzisothiazolin-3-one, reaction mass of:

5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one. May produce an

allergic reaction

Additional phrases for PPP SP1 - Do not contaminate water with the product or its container

<u>2.3. Other hazards</u>
No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Chemical Name	Weight-	CAS No	EC No	Index No	Classification according		M-Factor	REACH
	%				to Regulation (EC) No. 1272/2008 [CLP]	according to 67/548/EEC		Registration Number
Linuron	35-40	330-55-2	206-356-5	006-021-00-1	Acute Tox. 4 (H302) Repr. 1B (H360Df)	Xn; R22-48/22 Repr.Cat.2;		-
					Carc. 2 (H351) ´ STOT RE 2 (H373)	R61 Repr.Cat.3;		
					Aquatic Acute 1 (H400)	R62	M=100 M=10	
					Aquatic Chronic 1 (H410)	R40	IVI= I U	
						N; R50-53		

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection!.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

Skin ContactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aiderUse personal protective equipment as required.

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

Symptoms None known

4.3. Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

5.2. Special hazards arising from the substance or mixture

No specific hazard known.

5.3. Advice for firefighters

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

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration

(PNEC)

No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection
Body Protection

Tight sealing safety goggles.

Gloves made of plastic or rubber, Suitable protective clothing.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

after handling. Keep away from food, drink and animal feeding stuffs.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water. Local authorities

should be advised if significant spillages cannot be contained. Prevent product from

entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Not Applicable

9.1. Information on basic physical and chemical properties

<u>Values</u> Method **Property** Remarks

Appearance Physical state Liquid Color clear brown Odor Urea

Odor threshold : No data available

CIPAC MT 75.3 : 8-9 solution (1 %) Hq Melting point/freezing point °C Not Applicable

Boiling point/boiling range °C : No data available

Flash point °C > 79

Evaporation rate Not Applicable

Flammability (solid, gas) Not applicable for liquids Upper/lower flammability or No data available

explosive limits

Vapor pressure kPa

Vapor density : No data available

Relative density : 1.14 - 1.24

20 °C Solubility(ies) mg/l Not Applicable

Partition Coefficient See Section 12 for more

(n-octanol/water) Log Pow information

Autoignition temperature °C : 566

Decomposition temperature °C : No data available

OECD 114 Kinematic viscosity mm2/s 40 °C : 487.4

Explosive properties : Not an explosive **Oxidizing properties** : Not oxidizing

9.2. Other information

Bulk density g/ml Not Applicable Surface tension mN/m : ----No data available

Section 10: STABILITY AND REACTIVITY

CIPAC MT 3.3.2

EEC A.15

10.1. Reactivity

Not available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

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11.1. Information on toxicological effects

Acute toxicity

Values Species Method Remarks Oral LD50 mg/kg 4480 **OECD 401** Rat **OECD 402** Dermal LD50 mg/kg > 4000 Rat Inhalation LC50 mg/l/4h > 1.74 Rat OECD 403 Maximum attainable concentration

Skin corrosion/irritation : Non-irritating to the skin Rabbit OECD 404
Serious eye damage/eye irritation : Not irritating to eyes

Respiratory/skin sensitization : Not a skin sensitizer Mouse OECD 429

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Linuron : Not classified

Carcinogenicity

Chemical Name

Linuron : Suspected of causing cancer

Reproductive toxicity .

Chemical Name

Linuron : H360Df - May damage the unborn child. Suspected of damaging fertility

STOT - single exposure

Chemical Name

Linuron : No data available

STOT - repeated exposure

Chemical Name

Linuron : May cause damage to organs through prolonged or repeated exposure

Aspiration hazard Chemical Name

Linuron : Not available

Section 12: ECOLOGICAL INFORMATION

Lemna minor

12.1. Toxicity

Aquatic toxicity

Acute toxicity	<u>Values</u>	<u>Species</u>	<u>Method</u>	Remarks
Fish 96-hour LC50 mg/l	: 15.4	Rainbow trout	OECD 203	
Crustacea 48-hour EC50 mg/l	: 15	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: 0.199	D. Subspicatus	OECD 201	

Terrestrial Toxicity
Birds Oral LD50 mg/kg

Other plants EC50 mg/l

Chemical Name

Linuron : 314 Bobwhite quail

0.16

Bees Oral LD50 µg/bee

Chemical Name

Linuron : > 112

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OECD 221

12.2. Persistence and degradability

Abiotic Degradation Values Method Remarks

Water DT50 days **Chemical Name**

EPA-FIFRA 162-4 Linuron : 9.9

Soil DT50 days Chemical Name

Linuron : 38 - 135 15-25 °C

Biodegradation Chemical Name

Linuron : No data available

12.3. Bioaccumulative potential

Partition Coefficient Values <u>Method</u> Remarks

(n-octanol/water) Log Pow **Chemical Name**

23 °C Linuron EPA-FIFRA 63-11 : 3.0

Bioconcentration factor (BCF)

Chemical Name

Linuron : 38 0.95 mg/l

12.4. Mobility in soil

Adsorption/Desorption Values Method Remarks

Chemical Name

Linuron : 743 **OECD 106** Koc

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6. Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

14.1 UN/ID No

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linuron) 14.2 Proper shipping name

14.3 Hazard Class 14.4 Packing Group Ш 14.5 Marine pollutant Yes

14.6 Special precautions for user

RID/ADR

14.1 UN/ID No 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linuron)

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes

14.6 Special precautions for user

ICAO/IATA

14.1 UN/ID No 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linuron)

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes14.6 Special precautions for user

14.7 Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the

IBC Code



Section 15: REGULATORY INFORMATION

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

15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

Section 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed

R40 - Limited evidence of a carcinogenic effect

R61 - May cause harm to the unborn child

R62 - Possible risk of impaired fertility

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H351 - Suspected of causing cancer if inhaled

H360Df - May damage the unborn child. Suspected of damaging fertility

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Revision Note *** - Change from previous version.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet