

Safety data sheet

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BASF Safety data sheet
Date / Revised: 05.09.2008
Product: **LIGHTNING**

Version: 1.2

687 00 H
(30128247/SDS_CPA_AU/EN)

Date of print 16.02.2010

1. Substance/preparation and company identification

LIGHTNING

Use: crop protection product, herbicide

Company:

BASF Australia Limited (ABN 62 008 437 867)
Level 12, 28 Freshwater Place Southbank
Victoria 3006, AUSTRALIA
Telephone: +61 3 8855-6600
Telefax number: +61 3 8855-6511

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]
BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

2. Hazard identification

DANGEROUS GOOD, NON-HAZARDOUS SUBSTANCE

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

Keep out of the reach of children.

Keep away from food, drink and animal feeding stuffs.

When using do not eat, drink or smoke.

This material and its container must be disposed of in a safe way.

Use appropriate container to avoid environmental contamination.

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3. Composition/information on ingredients

Chemical nature

crop protection product, herbicide, water dispersible granules

Hazardous ingredients

imazapyr

Content (W/W): 17.5 %
CAS Number: 81334-34-1
Hazard symbol(s): Xi
R-phrase(s): 36, 52/53

imazethapyr

Content (W/W): 52.5 %
CAS Number: 81335-77-5
Hazard symbol(s): Xn, N
R-phrase(s): 20, 50/53

sodium alkylnaphthalene sulphonate, formaldehyde condensate

Content (W/W): $\geq 4.5\%$ - $\leq 5.5\%$
Hazard symbol(s): Xi
R-phrase(s): 36/38

Morwet EFW Powder

Content (W/W): $\geq 1.7\%$ - $\leq 2.3\%$
Hazard symbol(s): Xi
R-phrase(s): 38, 41

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-aid measures

General advice:

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention. If irritation develops, seek medical attention.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

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On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting measures

Suitable extinguishing media:

water spray, water fog, carbon dioxide, foam, dry extinguishing media

Specific hazards:

carbon monoxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Avoid dust formation.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. Handling and storage

Handling

No special measures necessary if stored and handled correctly.

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Protection against fire and explosion:
Dust can form an explosive mixture with air. No explosion proofing necessary.

Storage

Segregate from foods and animal feeds.
Further information on storage conditions: Protect against moisture. Keep away from heat. Protect from direct sunlight.

Storage stability:
Storage duration: 24 Months

Protect from temperatures above: 40 °C
Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure controls and personal protection

Components with workplace control parameters

no exposure standard allocated

Personal protective equipment

Respiratory protection:
Breathing protection if breathable aerosols/dust are formed. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2) Wear respiratory protection if ventilation is inadequate.

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:
The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and chemical properties

Form: granules
Colour: brown
Odour: faint odour

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pH value: approx. 3.0
(20 g/l)
(as a dispersion)

Melting point: Not applicable

Bulk density: 370 kg/m³

Solubility in water: dispersible
Partitioning coefficient n-octanol/water (log Pow):
Not applicable

10. Stability and reactivity

Conditions to avoid:
No conditions known that should be avoided.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:
oxidizing agents

Corrosion to metals: aluminum

Hazardous reactions:
No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:
nitrogen oxides

11. Toxicological information

Acute toxicity

LD50 rat (oral): > 5,000 mg/kg

LC50 rat (by inhalation): > 2.5 mg/l 4 h
No mortality was observed.

LD50 rabbit (dermal): > 2,000 mg/kg

Irritation

Primary skin irritation rabbit: non-irritant

Primary irritations of the mucous membrane rabbit: non-irritant

Sensitization

guinea pig: Skin sensitizing effects were not observed in animal studies.

Repeated dose toxicity

Information on: APN ref.sub. crystalline silica >0.1%-----

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological information

Ecotoxicity

Information on: imazapyr

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Oncorhynchus mykiss*

Information on: imazethapyr

Toxicity to fish:

LC50 (96 h) 340 mg/l, *Oncorhynchus mykiss*

Information on: imazapyr

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna*

Information on: imazethapyr

Aquatic invertebrates:

LC50 (48 h) > 1,000 mg/l, *Daphnia magna*

Information on: imazapyr

Aquatic plants:

EC50 71 mg/l, *Selenastrum capricornutum*

EC50 0.024 mg/l, *Lemna gibba*

Information on: imazethapyr

Aquatic plants:

EC50 71 mg/l, *Selenastrum capricornutum*

EC50 0.0044 mg/l, *Lemna gibba*

Information on: imazapyr

Information on: imazethapyr

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Persistence and degradability

Information on: imazapyr

Elimination information:

Not readily biodegradable (by OECD criteria).

Information on: imazethapyr

Elimination information:

Not readily biodegradable (by OECD criteria).

The product has not been tested. The statement has been derived from the structure of the product.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control. No data available for the preparation.

The ecological data given are those of the active ingredient.

13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport information

Domestic transport:

Hazard class: 9

Packing group: III

ID number: UN 3077

Hazard label: 9

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains IMAZAPYR 18%, IMAZETHAPYR 53%)

Further information

Hazchem Code:2Z

IERG Number:47

Sea transport

IMDG

Hazard class: 9

Packing group: III

ID number: UN 3077

Hazard label: 9

Marine pollutant: YES

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

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Air transport

IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3077
Hazard label:	9
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains IMAZAPYR 18%, IMAZETHAPYR 53%)

15. Regulatory informationStandard for the Uniform Scheduling of Drugs and Poisons (Australia):

Poisons Schedule: Drugs & Poisons, Schedule 5

Hazard symbol(s)

N Dangerous for the environment.

R-phrase(s)

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

S-phrase(s)

S2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S35	This material and its container must be disposed of in a safe way.
S57	Use appropriate container to avoid environmental contamination.

Hazard determining component(s) for labelling: IMAZAPYR, IMAZETHAPYR

Other regulations

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

Registration status:

AICS, AU blocked / not listed

16. Other information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

Xi	Irritant.
Xn	Harmful.
N	Dangerous for the environment.
36	Irritating to eyes.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
20	Harmful by inhalation.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
36/38	Irritating to eyes and skin.
38	Irritating to skin.
41	Risk of serious damage to eyes.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.