

Safety data sheet

Page: 1/11

BASF Safety data sheet

Date / Revised: 25.10.2016

Product: **BASAGRAN M60 HERBICIDE**

Version: 2.0

(30665431/SDS_CPA_AU/EN)

Date of print 26.10.2016

1. Substance/preparation and manufacturer/supplier identification

BASAGRAN M60 HERBICIDE

Use: crop protection product, herbicide

Manufacturer/supplier:

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

Classification of the substance and mixture:

Acute toxicity: Cat. 4 (oral)

Serious eye damage/eye irritation: Cat. 1

Skin sensitization: Cat. 1B

Hazardous to the aquatic environment - acute: Cat. 3

Label elements and precautionary statement:

Pictogram:



Signal Word:

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Danger**Hazard Statement:**

Causes serious eye damage. Harmful if swallowed. May cause an allergic skin reaction. Harmful to aquatic life.

Precautionary Statements (Prevention):

Wear protective gloves and eye/face protection. Avoid breathing mist. Wash contaminated body parts thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Wash with plenty of soap and water. Rinse mouth. Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

Dispose of contents/container to hazardous or special waste collection point.

Other hazards which do not result in classification:

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

crop protection product, herbicide, Soluble concentrate (SL)

Contains: 1H-2,1,3-Benzothiadiazin-4(3H)-one, 3-(1-methylethyl)-, 2,2-dioxide, sodium salt

Hazardous ingredients

| | | | | | | | | | | | |
|---|---|-----------------------|---------------------------|------------------------|--------------------------|--|---------------------|--|-----------------------|--|-------------------------|
| <p>1H-2,1,3-Benzothiadiazin-4(3H)-one, 3-(1-methylethyl)-, 2,2-dioxide, sodium salt</p> | <table border="0"> <tr> <td>Content (W/W): 33.6 %</td> <td>Acute Tox.: Cat. 5 (oral)</td> </tr> <tr> <td>CAS Number: 50723-80-3</td> <td>Eye Dam./Irrit.: Cat. 2B</td> </tr> <tr> <td></td> <td>Skin Sens.: Cat. 1B</td> </tr> <tr> <td></td> <td>Aquatic Acute: Cat. 3</td> </tr> <tr> <td></td> <td>Aquatic Chronic: Cat. 3</td> </tr> </table> | Content (W/W): 33.6 % | Acute Tox.: Cat. 5 (oral) | CAS Number: 50723-80-3 | Eye Dam./Irrit.: Cat. 2B | | Skin Sens.: Cat. 1B | | Aquatic Acute: Cat. 3 | | Aquatic Chronic: Cat. 3 |
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| | Aquatic Chronic: Cat. 3 | | | | | | | | | | |

| | | | | | | | | | | | | | |
|-----------------------|---|-----------------------|---------------------------|---------------------|---------------------------|--|-------------------------|--|-----------------------|--|-------------------------|--|-------------------|
| <p>MCPA TECHNICAL</p> | <table border="0"> <tr> <td>Content (W/W): 5.04 %</td> <td>Acute Tox.: Cat. 4 (oral)</td> </tr> <tr> <td>CAS Number: 94-74-6</td> <td>Skin Corr./Irrit.: Cat. 2</td> </tr> <tr> <td></td> <td>Eye Dam./Irrit.: Cat. 1</td> </tr> <tr> <td></td> <td>Aquatic Acute: Cat. 1</td> </tr> <tr> <td></td> <td>Aquatic Chronic: Cat. 1</td> </tr> <tr> <td></td> <td>M-factor acute: 1</td> </tr> </table> | Content (W/W): 5.04 % | Acute Tox.: Cat. 4 (oral) | CAS Number: 94-74-6 | Skin Corr./Irrit.: Cat. 2 | | Eye Dam./Irrit.: Cat. 1 | | Aquatic Acute: Cat. 1 | | Aquatic Chronic: Cat. 1 | | M-factor acute: 1 |
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| | Eye Dam./Irrit.: Cat. 1 | | | | | | | | | | | | |
| | Aquatic Acute: Cat. 1 | | | | | | | | | | | | |
| | Aquatic Chronic: Cat. 1 | | | | | | | | | | | | |
| | M-factor acute: 1 | | | | | | | | | | | | |

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

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

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, foam, dry powder, carbon dioxide

Specific hazards:

carbon monoxide, Sulphur dioxide, hydrogen chloride, carbon dioxide, nitrogen oxides, organochloric compounds

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:

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. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

6. Accidental Release Measures

Personal precautions:

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions:

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

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

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. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Protect from temperatures below: -5 °C

The product can crystallize below the limit temperature.

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 occupational exposure limits

| No occupational exposure limits known.

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

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. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

| | | |
|------------------------------|--|-----------------------------|
| Form: | liquid | |
| Colour: | red-brown | |
| Odour: | faint odour, spicy | |
| Odour threshold: | Not determined due to potential health hazard by inhalation. | |
| pH value: | approx. 6 - 8 (CIPAC standard water D, 1 %(m), 20 °C) | |
| crystallization temperature: | approx. -10 °C | |
| Boiling point: | approx. 100 °C | (measured) |
| Flash point: | (DIN EN 22719; ISO 2719) | |
| | No flash point - Measurement made up to the boiling point. | |
| Evaporation rate: | not applicable | |
| Flammability (solid/gas): | not flammable | |
| Lower explosion limit: | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. | |
| Upper explosion limit: | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. | |
| Ignition temperature: | 585 °C | (Directive 92/69/EEC, A.15) |

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Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.
 Explosion hazard: not explosive (Directive 92/69/EEC, A.14)
 Fire promoting properties: not fire-propagating (UN Test O.2 (oxidizing liquids))

Vapour pressure: approx. 23 hPa
 (20 °C)
 Information applies to the solvent.

Density: approx. 1.19 g/cm³ (OECD Guideline 109)
 (20 °C)

Relative vapour density (air):
 not applicable

Solubility in water: fully soluble
 Partitioning coefficient n-octanol/water (log Pow):
 not applicable

Information on: 1H-2,1,3-Benzothiadiazin-4(3H)-one, 3-(1-methylethyl)-, 2,2-dioxide

Partitioning coefficient n-octanol/water (log Pow): -0.46
 (22 °C; pH value: 7)
 -0.08
 (22 °C)
 0.77
 (22 °C; pH value: 5)
 -0.55
 (22 °C; pH value: 9)

Information on: MCPA TECHNICAL
 Partitioning coefficient n-octanol/water (log Pow): -0.71
 (20 °C; pH value: 7)

 Viscosity, dynamic: approx. 9.3 mPa.s (OECD 114)
 (20 °C)

Other Information:
 If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Conditions to avoid:
 See MSDS section 7 - Handling and storage.

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

Substances to avoid:
 strong acids, strong bases, strong oxidizing agents

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

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

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): 1,943 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation): > 5.4 mg/l 4 h (OECD Guideline 403)

No mortality was observed. An aerosol was tested.

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)

No mortality was observed.

Irritation

Assessment of irritating effects:

Not irritating to the skin. May cause severe damage to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: bentazone (ISO); 3-isopropyl-2,1,3-benzothiadiazine-4-one-2,2-dioxide

Experimental/calculated data:

Guinea pig maximization test guinea pig: skin sensitizing (OECD Guideline 406)

Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Specific target organ toxicity (single exposure):

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

Aspiration hazard

No aspiration hazard expected.

The product has not been tested. The statement has been derived from the properties of the individual components.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

Harmful to aquatic life.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203, static)

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (7 d) 25.22 mg/l (growth rate), Lemna gibba (OECD guideline 221, static)

| EC10 (7 d) 4.88 mg/l (growth rate), Lemna gibba (OECD guideline 221)

Mobility

Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.

| Information on: bentazone (ISO); 3-isopropyl-2,1,3-benzothiadiazine-4-one-2,2-dioxide

Information on: MCPA (ISO); 4-chloro-o-tolyloxyacetic acid

Assessment transport between environmental compartments:

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The product has not been tested. The statement has been derived from the properties of the individual components.

| Information on: bentazone (ISO); 3-isopropyl-2,1,3-benzothiadiazine-4-one-2,2-dioxide

Assessment biodegradation and elimination (H₂O):

| Not readily biodegradable (by OECD criteria).

Information on: MCPA (ISO); 4-chloro-o-tolyloxyacetic acid

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Bioaccumulation potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

| Information on: bentazone (ISO); 3-isopropyl-2,1,3-benzothiadiazine-4-one-2,2-dioxide

Information on: MCPA (ISO); 4-chloro-o-tolyloxyacetic acid

Bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control.

13. Disposal Considerations

Must be sent to a suitable incineration plant, observing 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:

Not classified as a dangerous good under transport regulations

Sea transport IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5

Registration status:

AICS, AU released w/o restriction f. BASF / not listed
APVMA Approval 55746

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16. Other Information

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. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.