

Safety data sheet

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BASF Safety data sheet
Date / Revised: 25.10.2016
Product: **AURA HERBICIDE**

Version: 4.0

(30665430/SDS_CPA_AU/EN)

Date of print 26.10.2016

1. Substance/preparation and manufacturer/supplier identification

AURA 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:

Aspiration hazard: Cat. 1
Flammable liquids: Cat. 4
Skin corrosion/irritation: Cat. 3
Serious eye damage/eye irritation: Cat. 2A
Carcinogenicity: Cat. 2
Reproductive toxicity: Cat. 2 (unborn child)
Specific target organ toxicity — single exposure: Cat. 3 (Vapours may cause drowsiness and dizziness.)
Hazardous to the aquatic environment - acute: Cat. 3
Hazardous to the aquatic environment - chronic: Cat. 2

Label elements and precautionary statement:

Pictogram:



Signal Word:
Danger

Hazard Statement:

Combustible liquid. Causes serious eye irritation. Causes mild skin irritation. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

Wear protective gloves/clothing/eye protection. Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing mist. Do not handle until all safety precautions have been read and understood. Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

IF exposed or concerned: Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Collect spillage. Do NOT induce vomiting. If eye irritation persists: Call a POISON CENTER or doctor/physician. If skin irritation occurs: Get medical advice/attention. In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.

Precautionary Statements (Storage):

Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

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.

Repeated exposure may cause skin dryness or cracking.

May produce an allergic reaction. Contains: PROFOXYDIM

3. Composition/information on ingredients

Chemical nature

crop protection product, herbicide, Emulsifiable concentrate (EC)

Hazardous ingredients

profoxydim

Content (W/W): 20.6 %
 CAS Number: 139001-49-3

Acute Tox.: Cat. 5 (oral)
 Skin Sens.: Cat. 1B
 Carc.: Cat. 2
 Repr.: Cat. 2 (unborn child)

solvent naphtha

Content (W/W): < 80 %
 CAS Number: 64742-94-5

Asp. Tox.: Cat. 1
 Flam. Liq.: Cat. 4
 Skin Corr./Irrit.: Cat. 2
 STOT SE: Cat. 3 (drowsiness and dizziness)
 Aquatic Acute: Cat. 2
 Aquatic Chronic: Cat. 2

naphthalene

Content (W/W): < 1 %
 CAS Number: 91-20-3

Acute Tox.: Cat. 4 (oral)
 Carc.: Cat. 2
 Aquatic Acute: Cat. 1
 Aquatic Chronic: Cat. 1
 M-factor acute: 1
 M-factor chronic: 1

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

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.

On contact with eyes:

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, carbon dioxide, dry powder

Specific hazards:
carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, carbon 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:
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 the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

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:
Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

Segregate from foods and animal feeds.

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

8. Exposure controls and personal protection

Components with occupational exposure limits

naphthalene, 91-20-3;

TWA value 10 ppm (ACGIHTLV)

STEL value 15 ppm (ACGIHTLV)

Skin Designation (ACGIHTLV)

The substance can be absorbed through the skin.

TWA value 52 mg/m³ ; 10 ppm (OEL (AU))

STEL value 79 mg/m³ ; 15 ppm (OEL (AU))

STEL value 79 mg/m³ ; 15 ppm (AU NOEL)

TWA value 52 mg/m³ ; 10 ppm (AU NOEL)

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:

Safety glasses with side-shields (frame 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:

Wearing of closed work clothing is recommended. The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Form:	liquid
Colour:	orange to brown
Odour:	strong, aromatic
Odour threshold:	Not determined due to potential health hazard by inhalation.

pH value:	approx. 5 - 7 (CIPAC standard water D, 1 %(m), 20 °C)	(pH Meter)
crystallization temperature:	< -20 °C	
Boiling range:	approx. 178 - 209 °C Information applies to the solvent.	
Flash point:	70 °C	(Directive 92/69/EEC, A.9)
Evaporation rate:	not applicable	
Flammability (solid/gas):	not applicable	
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:	465 °C	(Directive 92/69/EEC, A.15)
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Explosion hazard:	Based on the chemical structure there is no indicating of explosive properties.	(Directive 92/69/EEC, A.14)
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	(Directive 92/69/EEC, A.17)
Vapour pressure:	approx. 100 Pa (20 °C) Information applies to the solvent.	
Density:	approx. 0.97 g/cm ³ (20 °C)	(Directive 92/69/EEC, A.3)
Relative vapour density (air):	not applicable	
Solubility in water:	emulsifiable	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Viscosity, dynamic:	4.2 mPa.s (20 °C, 100 1/s)	(OECD 114)

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 oxidizing agents, strong bases, strong acids

Hazardous reactions:

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

Hazardous decomposition products:

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

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation): > 5.3 mg/l 4 h (OECD Guideline 403)

No mortality was observed. An aerosol was tested.

LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402)

Irritation

Assessment of irritating effects:

Skin contact causes slight irritation. Eye contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation rabbit: (OECD Guideline 404)

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

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:
modified Buehler test guinea pig: (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.

Information on: naphthalene

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was mutagenic in a mammalian cell culture test system. The substance was not mutagenic in a test with mammals. Literature data.

Carcinogenicity

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

Information on: profoxydim

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests.

Information on: naphthalene

Assessment of carcinogenicity:

In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was observed. EU-classification The substance was classified as a group 3 carcinogen by the German MAK-Commission (substances for which a suspicion of a carcinogenic potential exists). IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

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.

Information on: profoxydim

Assessment of teratogenicity:

Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

The product contains: Profoxydim

May produce an allergic reaction.

Specific target organ toxicity (single exposure):

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

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.

Information on: profoxydim

Assessment of repeated dose toxicity:

| Adaptive effects were observed after repeated exposure in animal studies.

| Information on: naphthalene

Assessment of repeated dose toxicity:

| The substance may cause damage to the olfactory epithelium after repeated inhalation.

Aspiration hazard

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

May also damage the lung at swallowing (aspiration hazard).

Other relevant toxicity information

Has a degreasing effect on skin.

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Toxicity to fish:

LC50 (96 h) 10.5 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203, static)

Aquatic invertebrates:

EC50 (48 h) 10.7 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

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EC50 (72 h) 26.8 mg/l (growth rate), *Desmodosmus subspicatus* (OECD Guideline 201, static)

Information on: solvent naphtha

Toxicity to fish:

other (96 h) 3.9 mg/l, *Oncorhynchus mykiss*

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: solvent naphtha

Aquatic invertebrates:

EL50 (48 h) 1.4 mg/l, *Daphnia magna*

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: solvent naphtha

Aquatic plants:

other (72 h) 4.6 mg/l, *Pseudokirchneriella subcapitata*

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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: Profoxydim

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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: Profoxydim

Information on: solvent naphtha

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: solvent naphtha

Assessment bioaccumulation potential:

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The product contains components with potential for bioaccumulation

Information on: Profoxydim
Bioaccumulation potential:
Bioconcentration factor: 10 - 400, Lepomis macrochirus (OECD-Guideline 305)
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:

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA)

Further information

Hazchem Code:3Z
IERG Number:47

Sea transport

IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA)

Air transport

IATA/ICAO

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Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA)

Further information

Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subjected to the Australian Dangerous Goods Code when transported by road or rail in packagings not exceeding 500 kg(L) or IBCs.

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 60040

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.