

Safety data sheet

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BASF Safety data sheet
Date / Revised: 14.12.2020
Product: **Adexar**

Version: 4.0

(30519170/SDS_CPA_NZ/EN)

Date of print 08.02.2024

1. Substance/preparation and manufacturer/supplier identification

Adexar

Use: crop protection product, fungicide

Manufacturer/supplier:

BASF New Zealand Ltd.
5E City Works Depot
77 Cook Street
Auckland Central, Auckland 1010
NEW ZEALAND
Telephone: +64 9 255-4300
Telefax number: +64 9 255-4307

Emergency information:

National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazard identification

Classification of the substance and mixture:

Acute toxicity: Cat. 4 (oral)
Acute toxicity: Cat. 5 (Inhalation - mist)
Serious eye damage/eye irritation: Cat. 2A
Skin sensitization: Cat. 1
Carcinogenicity: Cat. 2
Reproductive toxicity: Cat. Additional category for effects on or via lactation.
Reproductive toxicity: Cat. 2 (fertility)
Reproductive toxicity: Cat. 2 (unborn child)
Hazardous to the aquatic environment - acute: Cat. 1
Hazardous to the aquatic environment - chronic: Cat. 1

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Label elements and precautionary statement:

Pictogram:



Signal Word:
Warning

Hazard Statement:

H319	Causes serious eye irritation.
H333	May be harmful if inhaled.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H362	May cause harm to breast-fed children.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statement:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary Statements (Prevention):

P280	Wear protective gloves/clothing/eye protection.
P201	Obtain special instructions before use.
P260	Do not breathe dust or mist.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing should not be allowed out of the workplace.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.
P263	Avoid contact during pregnancy and while nursing.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311	IF exposed or concerned: Call a POISON CENTER or physician.
P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P330	Rinse mouth
P391	Collect spillage.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P337 + P311	If eye irritation persists: Call a POISON CENTER or physician.

Precautionary Statements (Storage):

P405	Store locked up.
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Precautionary Statements (Disposal):

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P501 Dispose of contents and 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, fungicide, Emulsifiable concentrate (EC)

Hazardous ingredients

Epoxiconazole

Content (W/W): 6 %

CAS Number: 133855-98-8

Acute Tox.: Cat. 5 (oral)

Carc.: Cat. 2

Repr.: Cat. 2 (fertility)

Repr.: Cat. 2 (unborn child)

Aquatic Acute: Cat. 1

Aquatic Chronic: Cat. 1

M-factor acute: 10

M-factor chronic: 10

Fluxapyroxad

Content (W/W): 6 %

CAS Number: 907204-31-3

Repr.: Cat. Add. cat. lact.

Aquatic Acute: Cat. 1

Aquatic Chronic: Cat. 1

Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)-

Content (W/W): < 50 %

CAS Number: 186817-80-1

Skin Corr./Irrit.: Cat. 2

Eye Dam./Irrit.: Cat. 2A

Skin Sens.: Cat. 1B

Aquatic Acute: Cat. 3

Benzyl alcohol

Content (W/W): < 25 %

CAS Number: 100-51-6

Flam. Liq.: Cat. 4

Acute Tox.: Cat. 4 (oral)

Acute Tox.: Cat. 4 (Inhalation - mist)

Acute Tox.: Cat. 4 (dermal)

Eye Dam./Irrit.: Cat. 2A

Aquatic Acute: Cat. 2

solvent naphtha

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Content (W/W): < 9 %	Asp. Tox.: Cat. 1
CAS Number: 64742-94-5	Flam. Liq.: Cat. 4
	Skin Corr./Irrit.: Cat. 2
	STOT SE: Cat. 3 (drowsiness and dizziness)
	Aquatic Acute: Cat. 2
	Aquatic Chronic: Cat. 2

Poly(oxy-1,2-ethanediyl), .alpha.-[tris(1-phenylethyl)phenyl]-.omega.-hydroxy-	
Content (W/W): < 8 %	Acute Tox.: Cat. 5 (oral)
CAS Number: 99734-09-5	Aquatic Acute: Cat. 3
	Aquatic Chronic: Cat. 3

Benzenesulfonic acid, tetrapropylene-, calcium salt

Content (W/W): < 5 %	Flam. Liq.: Cat. 3
CAS Number: 11117-11-6	Acute Tox.: Cat. 4 (dermal)
	Skin Corr./Irrit.: Cat. 1B
	Eye Dam./Irrit.: Cat. 1
	Aquatic Acute: Cat. 3
	Aquatic Chronic: Cat. 3

Alcohols, C11-14-iso-, C13-rich, ethoxylated

Content (W/W): < 3 %	Acute Tox.: Cat. 4 (oral)
CAS Number: 78330-21-9	Eye Dam./Irrit.: Cat. 1
	Aquatic Acute: Cat. 1
	Aquatic Chronic: Cat. 2

Methane, sulfinylbis-

Content (W/W): < 10 %	Flam. Liq.: Cat. 4
CAS Number: 67-68-5	

4. First-Aid Measures

General advice:

| 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.

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Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry powder

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride, 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:

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:

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. Wear suitable protective equipment.

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.

Storage stability:

Storage duration: 36 Months

Protect from temperatures below: -10 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

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

dimethyl sulfoxide, 67-68-5;

solvent naphtha, 64742-94-5;

TWA value 200 mg/m³ (ACGIHTLV), Non-aerosol

Measured as: total hydrocarbon vapor

Application restricted to conditions in which there are negligible aerosol exposures.

Skin Designation (ACGIHTLV), Non-aerosol

Measured as: total hydrocarbon vapor

Danger of cutaneous absorption

Epoxiconazole, 133855-98-8;

TWA value 0.3 mg/m³ (Recommendation of BASF), Respirable dust

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

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:

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: moderate odour, aromatic
Odour threshold: Not determined due to potential health hazard by inhalation.

pH value: approx. 4 - 6 (pH Meter)
(water, 1 %(m), approx. 20 °C)

crystallization temperature: < -20 °C
Boiling point: approx. 205 °C
(1,013 hPa)
Information applies to the solvent.

Flash point: 96 °C
Evaporation rate: not applicable

Flammability (solid/gas): not highly 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.

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Ignition temperature: approx. 282 °C (Directive 92/69/EEC, A.15)

Thermal decomposition: 170 °C , 10 kJ/kg (onset temperature) (DSC (OECD 113))

240 °C , 70 kJ/kg (onset temperature) (DSC (OECD 113))

405 °C , 100 kJ/kg (onset temperature) (DSC (OECD 113))

Explosion hazard: Not a substance liable to self-decomposition according to UN transport regulations, class 4.1. not explosive (Directive 92/69/EEC, A.14)
Fire promoting properties: not fire-propagating (Directive 2004/73/EC, A.21)

Vapour pressure: approx. 0.13 hPa (25 °C)
Information applies to the solvent.

Relative density: approx. 1.04 (20 °C) (calculated)

Relative vapour density (air): not applicable

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

Viscosity, dynamic: approx. 20.9 mPa.s (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 SDS section 7 - Handling and storage.

Thermal decomposition: 170 °C, 10 kJ/kg (DSC (OECD 113)) (onset temperature)

Thermal decomposition: 240 °C, 70 kJ/kg (DSC (OECD 113)) (onset temperature)

Thermal decomposition: 405 °C, 100 kJ/kg (DSC (OECD 113)) (onset temperature)

Thermal decomposition: Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

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

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:
Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:
LD50 rat (oral): > 500 - < 2,000 mg/kg (OECD Guideline 423)

LC50 rat (by inhalation): 5.84 mg/l 4 h (OECD Guideline 403)
An aerosol was tested.

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

Irritation

Assessment of irritating effects:
Not irritating to the skin. Eye contact causes irritation.

Experimental/calculated data:
Skin corrosion/irritation rabbit: (OECD Guideline 404)

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

Respiratory/Skin sensitization

Assessment of sensitization:
Sensitization after skin contact possible.

Experimental/calculated data:
Mouse Local Lymph Node Assay (LLNA) mouse: (OECD Guideline 429)

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: Benzyl alcohol

Assessment of mutagenicity:

The substance was mutagenic in various cell culture test systems; however, these results could not be confirmed in tests with mammals.

Carcinogenicity

Assessment of carcinogenicity:

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

Information on: Epoxiconazole

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests.

Information on: Fluxapyroxad

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests. The effect is caused by an animal specific mechanism that has no human counter part.

Information on: solvent naphtha

Assessment of carcinogenicity:

Long-term exposure to highly irritating concentrations resulted in skin tumors in animals. A carcinogenic effect in humans can be excluded after brief skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Reproductive toxicity

Assessment of reproduction toxicity:

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

Information on: Epoxiconazole

Assessment of reproduction toxicity:

The results of animal studies suggest a fertility impairing effect.

Information on: Fluxapyroxad

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. May cause harm to children via breast-feeding.

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: Epoxiconazole

Assessment of teratogenicity:

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

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.

Information on: Epoxiconazole**Assessment of repeated dose toxicity:**

Repeated exposure to large quantities may affect certain organs.

Information on: Fluxapyroxad**Assessment of repeated dose toxicity:**

Adaptive effects were observed after repeated exposure in animal studies.

Information on: Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)-**Assessment of repeated dose toxicity:**

After repeated exposure the prominent effect is local irritation.

Information on: Benzyl alcohol**Assessment of repeated dose toxicity:**

The substance may cause damage to the central nervous system after repeated ingestion of high doses.

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:**

Very toxic to aquatic life with long lasting effects.

Toxicity to fish:

LC50 (96 h) 10.6 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203)

Aquatic invertebrates:

EC50 (48 h) 28.9 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) 5.38 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

EC50 (7 d) 0.265 mg/l (growth rate), *Lemna gibba* (OECD guideline 221, static)

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: Epoxiconazole

Assessment transport between environmental compartments:

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

Information on: Fluxapyroxad

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: Epoxiconazole

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Information on: Fluxapyroxad

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: Epoxiconazole

Bioaccumulation potential:

Bioconcentration factor: 59 - 70, *Oncorhynchus mykiss* (OECD-Guideline 305)

Does not accumulate in organisms.

Information on: Fluxapyroxad

Bioaccumulation potential:

Bioconcentration factor: 36 - 37 (28 d), *Lepomis macrochirus* (OECD-Guideline 305)

Does not accumulate in organisms.

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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:

Packing group: III
ID number: UN 3082
Transport hazard class(es): 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains EPOXICONAZOLE, FLUXAPYROXAD)

Further information

Hazchem Code:3Z
IERG Number:47

Sea transport

IMDG

Packing group: III
ID number: UN 3082
Transport hazard class(es): 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains EPOXICONAZOLE, FLUXAPYROXAD)

Air transport

IATA/ICAO

Packing group: III
ID number: UN 3082
Transport hazard class(es): 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
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Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2).

15. Regulatory Information

Other regulations

To avoid risks to man and the environment, comply with the instructions for use.

ACVM Approval Number: P008871

Tracking requirements do not apply to this substance.
A certified handler is not required for the handling of this substance.

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.