

Safety data sheet

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BASF Safety data sheet
Date / Revised: 23.11.2022
Product: **Imtrex®**

Version: 3.1

(30509898/SDS_CPA_NZ/EN)

Date of print): 24.11.2022

1. Substance/preparation and manufacturer/supplier identification

Product name:
Imtrex®

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 (Inhalation - mist)
Serious eye damage/eye irritation: Cat.2B
Reproductive toxicity: Cat.Additional category for effects on or via lactation.
Hazardous to the aquatic environment - acute: Cat.2
Hazardous to the aquatic environment - chronic: Cat.2

Label elements and precautionary statement:

Pictogram:



Signal Word:
Warning

Hazard Statement:

H320	Causes eye irritation.
H332	Harmful if inhaled.
H362	May cause harm to breast-fed children.
H401	Toxic to aquatic life.
H411	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):

P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe dust/mist/vapours.
P202	Do not handle until all safety precautions have been read and understood.
P263	Avoid contact during pregnancy and while nursing.
P264	Wash contaminated body parts thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

Precautionary Statements (Response):

P308 + P311	IF exposed or concerned: Call a POISON CENTER or physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P391	Collect spillage.
P337 + P311	If eye irritation persists: Call a POISON CENTER or physician.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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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.

May produce an allergic reaction. Contains: (2S)-2-HYDROXY-PROPANOIC ACID 2-ETHYLHEXYL ESTER

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

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crop protection product, fungicide, Emulsifiable concentrate (EC)

Hazardous ingredients

Fluxapyroxad

Content (W/W): 6.02 %
CAS Number: 907204-31-3

Repr.: Cat. Add. cat. lact.
Aquatic Acute: Cat. 1
Aquatic Chronic: Cat. 1
M-factor acute: 1
M-factor chronic: 1

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

Content (W/W): < 30 %
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

Hexanedioic acid, dimethyl ester

Content (W/W): < 20 %
CAS Number: 627-93-0

Aquatic Acute: Cat. 3

Methyl-Oxirane, Blockpolymer with Oxirane, Monoisotridecyl ether

Content (W/W): < 20 %
CAS Number: 196823-11-7

Acute Tox.: Cat. 5 (oral)
Skin Corr./Irrit.: Cat. 3
Eye Dam./Irrit.: Cat. 2A
Aquatic Acute: Cat. 2

Poly(oxy-1,2-ethanediyl), .alpha.-[tris(1-phenylethyl)phenyl]-.omega.-hydroxy-

Content (W/W): < 15 %
CAS Number: 99734-09-5

Acute Tox.: Cat. 5 (oral)
Aquatic Acute: Cat. 3
Aquatic Chronic: Cat. 3

Methane, sulfinylbis-

Content (W/W): < 10 %
CAS Number: 67-68-5

Flam. Liq.: Cat. 4
Eye Dam./Irrit.: Cat. 2B

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts

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Content (W/W): < 10 %
CAS Number: 68953-96-8

Acute Tox.: Cat. 4 (dermal)
Skin Corr./Irrit.: Cat. 2
Eye Dam./Irrit.: Cat. 1
Aquatic Acute: Cat. 3
Aquatic Chronic: Cat. 2

Hydrocarbons, C10-C13, aromatics, <1% naphthalene

Content (W/W): < 10 %
CAS Number: 64742-94-5

Asp. Tox.: Cat. 1
Aquatic Acute: Cat. 2
Aquatic Chronic: Cat. 2

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

Content (W/W): < 3 %
CAS Number: 78330-21-9

Acute Tox.: Cat. 4 (oral)
Eye Dam./Irrit.: Cat. 1
Aquatic Acute: Cat. 1
Aquatic Chronic: Cat. 2

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

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

On skin contact:

Wash thoroughly with soap and water

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: 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

Specific hazards:

carbon monoxide, carbon dioxide, hydrogen fluoride, nitrogen oxides, halogenated compounds, sulfur 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.

Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Dispose of absorbed material in accordance with 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. If transport time lasts more than 4 days the packed product must be protected against exceeding the indicated temperature.

8. Exposure controls and personal protection

Components with occupational exposure limits

Solvent naphtha (petroleum), heavy arom., 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
Skin Designation (ACGIHTLV), Non-aerosol
Measured as: total hydrocarbon vapor
Danger of cutaneous absorption
TWA value 200 mg/m³ (ACGIHTLV), Non-aerosol
Measured as: total hydrocarbon vapor
Application restricted to conditions in which there are negligible aerosol exposures.

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 ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): 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. Keep away from food, drink and animal feeding stuffs. Store work clothing separately.

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9. Physical and Chemical Properties

Form:	liquid	
Colour:	yellow, clear	
Odour:	faintly aromatic	
Odour threshold:	Not determined since harmful by inhalation.	
pH value:	approx. 5 - 6 (water, 1 %(m), 20 °C)	(pH Meter)
crystallization temperature:	< -20 °C	(measured)
Boiling point:	approx. 200 °C Information applies to the solvent.	
Flash point:	99 °C	(Directive 92/69/EEC, A.9, closed cup)
Evaporation rate:	not applicable	
Flammability (solid/gas):	not flammable	(Directive 92/69/EEC, A.13)
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:	264 °C	(Directive 92/69/EEC, A.15)
Thermal decomposition:	150 °C , 20 kJ/kg (onset temperature)	(DSC (OECD 113))
	250 °C , 40 kJ/kg (onset temperature)	(DSC (OECD 113))
Explosion hazard:	Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.	
Fire promoting properties:	not explosive not fire-propagating	(Directive 2004/73/EC, A.21)
Vapour pressure:	approx. 0.13 hPa (25 °C) Information applies to the solvent.	

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Density:	approx. 1.04 g/cm ³ (20 °C)	(OECD Guideline 109)
Relative vapour density (air):	not applicable	
Solubility in water:	emulsifiable	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Viscosity, dynamic:	9.5 mPa.s (40 °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 SDS section 7 - Handling and storage.

Thermal decomposition:	150 °C, 20 kJ/kg (DSC (OECD 113)) (onset temperature)
Thermal decomposition:	250 °C, 40 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.

Chemical stability:

The product is stable if stored and handled as prescribed/indicated.

11. Toxicological Information

Routes of exposure**Acute oral toxicity**

Experimental/calculated data:

LD₅₀rat (oral): > 2,000 mg/kg (OECD Guideline 423)

No mortality was observed.

Acute inhalation toxicity

LC₅₀ rat (by inhalation): > 1.0 - < 5.32 mg/l 4 h (OECD Guideline 403)

An aerosol was tested.

Acute dermal toxicity

LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402)
No mortality was observed.

Assessment of acute toxicity

Virtually nontoxic after a single ingestion. Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single skin contact.

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

Irritation

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

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:
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: 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.

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: 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. 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)

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: Fluxapyroxad

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies.

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.

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: Dimethyl adipate

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation. The substance can cause changes in the following organs after repeated exposure to large quantities: olfactory epithelium

Information on: Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Toxicity to fish:

LC50 (96 h) 5.02 mg/l, *Cyprinus carpio* (OECD Guideline 203, static)

Aquatic invertebrates:

EC50 (48 h) 19.8 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) 42.4 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

EC10 (72 h) 3.03 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

Information on: Fluxapyroxad

Chronic toxicity to fish:

No observed effect concentration (33 d) 0.0359 mg/l, *Pimephales promelas* (OECD Guideline 210, Flow through.)

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: 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: 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: Fluxapyroxad

Bioaccumulation potential:

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

Does not accumulate in organisms.

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:

UN number or ID number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (FLUXAPYROXAD)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

Further information

Hazchem Code:3Z

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IERG Number:47

Sea transport

IMDG

UN number or ID number: UN 3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (FLUXAPYROXAD)
Transport hazard class(es): 9, EHS
Packing group: III
Environmental hazards: yes
Marine pollutant: YES
Special precautions for user: EmS: F-A; S-F

Air transport

IATA/ICAO

UN number or ID number: UN 3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (FLUXAPYROXAD)
Transport hazard class(es): 9, EHS
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

Further information

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) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

15. Regulatory Information

Other regulations

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

ACVM Approval number: P009613

A certified handler is not required for the handling of this substance.

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Tracking requirements do not apply to 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.