



Product Name: Swan Imazamox + Imazapyr Herbicide

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Section 1 - Identification of the Material and Supplier

Product Name: Swan Imazamox + Imazapyr Herbicide
APVMA Approval No.: 95646
Chemical nature: Soluble Concentrate (SL) containing **Imazamox + Imazapyr**
Product Use: Agricultural herbicide for use as described on the product label.
Company: **Swan Chemical Holdings Pty Ltd.**
U2/9 Glossop Street, Wangara WA 6065
Phone: 1300 289 520
info@swanchemicalholdings.com
swanchemicalholdings.com
Creation Date: April 2025
Poisons Information Centre: Phone 13 11 26 from anywhere in Australia

Section 2 - Hazards Identification

Classification of the Substance

Poisons Schedule Not Applicable

Classification [1] Hazardous to the Aquatic Environment Long-Term Hazard Category 2

UN Number: 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. contains imazamox and 1,2-benzisothiazoline-3-one



Hazard Statement(s)

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

P273 Avoid release to the environment.

Precautionary Statement(s) (Response):

P391 Collect spillage.

Precautionary Statement(s) (Disposal):

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

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No.	% Weight
Imazamox	114311-32-9	3.1 %
Imazapyr	81334-34-1	1.4 %
1,2-benzisothiazoline-3-one	2634-33-5	0 – 1%
Other non-hazardous ingredients		to 1 kg

Chemical Nature

Herbicide, Soluble concentrate (SL)

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Preparation based on: imazapyr, 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(methoxymethyl)-, ammonium salts

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

Section 4 - First Aid Measures

General Advice:

Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air.

Skin contact: Wash thoroughly with soap and water.

Eye contact: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

Ingestion: Rinse mouth and then drink 200-300 mL of water. If swallowed do **NOT** induce vomiting.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable extinguishing media: water spray, carbon dioxide, foam, dry powder.

Specific hazards: carbon monoxide, ammonia, carbon dioxide, nitrogen oxides.

Special Hazards Arising from the Substrate

Fire Incompatibility: Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

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.

Section 6 - Accidental Release Measures

Personal Precautions:

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

Environmental Precautions:

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

Methods for Cleaning Up:

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

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.

Section 7 – Handling & 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:

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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: -10 °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.

Section 8 - Exposure Controls and Personal Protection

Personal Protective Equipment:

Respiratory protection: Respiratory protection not required.

Hand protection: Chemical resistant protective gloves.

Eye protection: Eye protection not required.

Body protection: Body protection not required.

General Safety and Hygiene Measures:

Avoid contact with the skin, eyes and clothing. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Wash contaminated clothing before reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Before eating, drinking, or smoking, wash face and hands with soap and water.

Section 9 - Physical and Chemical Properties:

Form:	Liquid
Colour:	Pale yellow to amber
Odour:	Aliphatic
Odour Threshold:	Not determined due to potential health hazard by inhalation.
pH value:	approx. 5 – 7 (approx. 20 °C) (measured with the undiluted substance)
Solidification Temperature:	approx. -14 °C (1,013.3 hPa)
Boiling Point:	approx. 100 °C (1,013.3 hPa) Information applies to the solvent.
Flash Point:	Non-flammable.
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:	398 °C
Thermal Decomposition:	Explosion hazard: Fire promoting properties: No decomposition if stored and handled as prescribed/indicated. Based on the chemical structure there is no indication of explosive properties. Based on its structural properties the product is not classified as oxidizing.
Vapour Pressure:	approx. 23.4 hPa (20 °C) Information applies to the solvent.
Density:	approx. 1.08 g/cm ³ (20 °C) / approx. 1.05 g/cm ³ (55 °C)
Relative vapour density (air):	Not applicable

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Solubility in water: Soluble

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

Viscosity, dynamic: approx. 83 mPa.s (20 °C) Not determined

Other Information:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. If necessary, information on other physical and chemical parameters is indicated in this section.

Section 10 - Stability and Reactivity

Conditions to Avoid:

See SDS Section 7 - Handling and Storage.

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

Substances to avoid: strong bases, strong acids, 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.

Section 11 - Toxicological Information

Acute Toxicity

Assessment of acute toxicity:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. 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): > 6.3 mg/L 4 h (OECD Guideline 403)

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

Irritation

Assessment of irritating effects:

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

Experimental/calculated data:

Skin corrosion/irritation rabbit:

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

Respiratory/Skin Sensitization

Assessment of sensitization:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

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. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity

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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.

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.

Section 12 - Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

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

Information on: imazapyr (ISO); Toxicity to fish: LC50 (96 h) > 100 mg/L, Oncorhynchus mykiss

Information on: imazamox: Toxicity to fish: LC50 (96 h) > 97 mg/L, Cyprinodon variegatus

Information on: imazapyr (

Aquatic invertebrates: EC50 (48 h) > 100 mg/L, Daphnia magna

Information on: imazamox

Aquatic invertebrates: EC50 (48 h) > 100 mg/L, Daphnia magna

Information on: imazapyr (ISO); Aquatic plants:

EC50 (7 d) 11.7 mg/L, Anabaena flos-aquae

No observed effect concentration 5.26 mg/L, Anabaena flos-aquae

Information on: imazamox: Aquatic plants:

EC10 (7 d) 0.0095 mg/L, Lemna gibba

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EC50 (72 h) 29.1 mg/L (growth rate), *Pseudokirchneriella subcapitata*

EC50 (7 d) 0.031 mg/L (growth rate), *Lemna gibba*

Information on: imazapyr (ISO):

Chronic toxicity to fish: No observed effect concentration (33 d) 118 mg/L, *Pimephales promelas*

Information on: imazamox

Chronic toxicity to fish: No observed effect concentration (35 d) 1.22 mg/L, *Cyprinodon variegatus*

Information on: imazapyr (ISO);2

Chronic toxicity to aquatic invertebrates: No observed effect concentration (21 d), 97.1 mg/L, *Daphnia magna*

Information on: imazamox

Chronic toxicity to aquatic invertebrates: No observed effect concentration (21 d), 137 mg/L, *Daphnia magna*

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: imazamox

Assessment transport between environmental compartments:

The substance will not evaporate into the atmosphere from the water surface.

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

Information on: imazapyr (ISO); 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridine carboxylate

Assessment transport between environmental compartments: The substance will not evaporate into the atmosphere from the water surface.

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: imazapyr (ISO); 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridine carboxylate

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Information on: imazamox

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: imazamox

Bioaccumulation potential:

Bioconcentration factor: < 1, *Lepomis macrochirus* (OECD-Guideline 305)

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Does not accumulate in organisms.

Information on: imazamox

Chronic toxicity to aquatic invertebrates: No observed effect concentration (21 d), 137 mg/L, Daphnia magna

Section 13 - Disposal Considerations

Disposal: Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

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

Section 14 - Transport Information

Domestic Transport:

ID number: UN 3082

Transport hazard class(es): **Class** 9, Subclass Not Applicable

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains IMAZAMOX)

Packing group: III

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 IMAZAMOX)

Air Transport

IATA/ICAO

Packing group: III

ID number: UN 3082

Transport hazard class(es): 9, EHSM

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains IMAZAMOX)

Section 15 - Regulatory Information

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.

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).

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Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS No.	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

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