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# 1. Product and Company Identification

Company BASF Canada Inc. 100 Milverton Drive Mississauga, ON L5R 4H1 CANADA 24 Hour Emergency Response Information CANUTEC (reverse charges): (613) 996-6666 BASF HOTLINE: (800) 454-COPE (2673)

Molecular formula: PCP # 30203 Synonyms: C(13) H(15) N(3) O(3). C(3) H(9) N

Isopropylamine salt of imazapyr

### 2. Hazards Identification

#### **Emergency overview**

CAUTION:
Eye irritant.
Potential skin sensitizer.
KEEP OUT OF REACH OF CHILDREN.
May cause sensitization by skin contact.
May cause eye irritation.
Avoid contact with the skin, eyes and clothing.
Avoid inhalation of mists/vapours.

State of matter: liquid Colour: transparent Colour: light yellow Odour: odourless

# Potential health effects

#### Acute toxicity:

Slightly toxic after single ingestion. Relatively nontoxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

#### Irritation / corrosion:

May cause slight but temporary irritation to the eyes. May cause slight irritation to the skin.

#### Sensitization:

Caused skin sensitization in animal studies.

#### Chronic toxicity:

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**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.

**Repeated dose toxicity:** The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organization was observed after repeated administration to animals.

**Reproductive 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.

**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.

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

#### Signs and symptoms of overexposure:

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.

#### Potential environmental effects

#### Aquatic toxicity:

There is a high probability that the product is not acutely harmful to fish. There is a high probability that the product is not acutely harmful to aquatic invertebrates. Acutely harmful for aquatic plants.

#### Terrestrial toxicity:

With high probability not acutely harmful to terrestrial organisms.

#### 3. Composition / Information on Ingredients

CAS NumberContent (W/W)Hazardous ingredients81510-83-021.8 %imazapyr isopropylamine salt

#### 4. First-Aid Measures

#### General advice:

Remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air. Assist in breathing if necessary. Consult a physician.

#### If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes. Remove contaminated clothing. If irritation develops, seek medical attention.

#### lf in eyes:

Hold eyelids open to facilitate rinsing. Flush with copious amounts of water for at least 15 minutes. If symptoms persist, seek medical advice.

#### If swallowed:

If person is conscious and can swallow, give two glasses of water. Induce vomiting. Immediate medical attention required.

#### Note to physician

Antidote: No known specific antidote. Treatment: Treat symptomatically.

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# 5. Fire-Fighting Measures

Flash point: approx. 93.3 °C

Autoignition:

Based on the water content the product does not ignite.

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. Flammability: not highly

flammable

Suitable extinguishing media:

foam, dry powder, carbon dioxide, water spray

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, Hydrocarbons,

If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

#### Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

#### 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:

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

#### **Environmental precautions:**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

#### Cleanup:

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

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# 7. Handling and Storage

#### **Handling**

#### General advice:

Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

#### 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

#### General advice:

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination.

#### Storage incompatibility:

General advice: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

## 8. Exposure Controls and Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

#### Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

#### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### Hand protection:

Chemical resistant protective gloves, Suitable materials, rubber, plastic

#### Eye protection:

Tightly fitting safety goggles (chemical goggles).

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling cropprotection agents in final-consumer packing. Wearing of closed work clothing is recommended. Wash soiled clothing immediately.

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## 9. Physical and Chemical Properties

Form: liquid Odour: odourless Odour threshold: No data available. Colour: transparent

light yellow

pH value: approx. 6 - 8 (25 °C)

approx. 0 °C (1,013.3 hPa) Information applies to the Freezing point:

solvent.

Boiling point: approx. 100 °C (1,013.3 hPa) Information applies to the

solvent.

Vapour pressure: approx. 23.3 hPa (20°C) Information applies to the solvent.

(20°C) approx. 1.10 g/cm3

Vapour density: not applicable Partitioning coefficient n-

not applicable

octanol/water (log Pow):

Density:

(20°C) Viscosity, dynamic: 163.2 mPa.s Solubility in water: miscible

Other Information: If necessary, information on other physical and chemical parameters is

indicated in this section.

# 10. Stability and Reactivity

#### Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

#### Substances to avoid:

strong oxidizing agents, reducing agents

#### Hazardous reactions:

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

#### **Decomposition products:**

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

## Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, Hydrocarbons

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released.

#### Corrosion to metals:

Corrosive effect on: brass mild steel

#### Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

#### 11. Toxicological information

### **Acute toxicity**

Oral:

Type of value: LD50 Species: rat

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

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Inhalation:

Type of value: LC50 Species: rat Value: > 5.5 mg/l Exposure time: 4 h

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

Dermal:

Type of value: LD50 Species: rabbit

Value: > 5,000 mg/kg (OECD Guideline 402)

#### Irritation / corrosion

Skin:

Species: rabbit Result: non-irritant

Method: OECD Guideline 404

Eye:

Species: rabbit Result: non-irritant

**Sensitization:**Skin sensitization test
Species: guinea pig

Result: Caused skin sensitization in animal studies.

# 12. Ecological Information

#### Fish

Acute:

Cyprinus carpio/LC50 (96 h): > 120 mg/l

#### **Aquatic invertebrates**

Acute:

Daphnia magna/EC50 (48 h): > 100 mg/l

#### **Aquatic plants**

Toxicity to aquatic plants:

green algae/EC50 (72 h): > 98 mg/l

#### **Environmental mobility:**

Information on: Imazapyr

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.

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#### Other adverse effects:

Do not discharge product into the environment without control.

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## 13. Disposal considerations

#### Waste disposal of substance:

See product label for disposal and recycling instructions.

#### Container disposal:

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

# 14. Transport Information

Land transport

**TDG** 

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

# **Federal Regulations**

Registration status:

Crop Protection DSL, CA released / exempt

Chemical DSL, CA blocked / not listed

WHMIS does not apply to this product.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

### 16. Other Information

Recommended use: herbicide

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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SDS Prepared by:

**BASF NA Product Regulations** 

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