

Safety data sheet

ARSENAL

Revision date : 2006/01/11
Version : 1.0

Page : 1/6
(30129775/MDS_GEN_CA/EN)

1. Substance/preparation and company identification

Company

BASF CANADA
Milverton Drive 100
Mississauga, ON L5R 4H1

24 Hour Emergency Response Information

CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE (800) 454-COPE (2673)

Molecular formula:	C(13) H(15) N(3) O(3). C(3) H(9) N
Molecular weight:	320.4 g/mol
PCP #23713	
Synonyms:	isopropylamine of imazapyr

2. Hazardous ingredients

Not WHMIS controlled.

3. Hazard identification

Potential health effects

Acute toxicity:

Harmful if swallowed.

Irritation:

Irritating to eyes and respiratory system. Prolonged contact with the product can result in skin irritation.

4. First-aid measures

If inhaled:

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

If on skin:

Wash affected areas thoroughly with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.

If 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.

5. Fire-fighting measures

Safety data sheet

ARSENAL

Revision date : 2006/01/11
Version : 1.0

Page : 2/6
(30129775/MDS_GEN_CA/EN)

Flash point: > 98.88 °C
Self-ignition temperature: 93 °C

Suitable extinguishing media:

foam, dry extinguishing media, carbon dioxide, water spray

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, Nitrogen oxide,
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.

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.

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 up 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.

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.

Safety data sheet

ARSENAL

Revision date : 2006/01/11
Version : 1.0

Page : 3/6
(30129775/MDS_GEN_CA/EN)

Storage incompatibility:

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

8. Exposure controls and personal protection

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).

General safety and hygiene measures:

Wash soiled clothing immediately.

9. Physical and chemical properties

Form	liquid
Odour:	ammonia-like, faint odour
Odour threshold:	No data available.
Colour:	blue, clear
pH value:	6.6 - 7.2
Density:	1.06 - 1.09 g/ml
Solubility in water:	miscible

10. Stability and reactivity

Conditions to avoid :

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

Substances to avoid:

strong oxidizing agents, reducing agents

Hazardous reactions :

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

Safety data sheet

ARSENAL

Revision date : 2006/01/11
Version : 1.0

Page : 4/6
(30129775/MDS_GEN_CA/EN)

Decomposition products :

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

Corrosion to metals:

brass mild steel

11. Toxicological information

Acute toxicity**Oral:**

LD50/rat/male/female: > 5,000 mg/kg

Dermal:

LD50/rabbit/male/female: > 2,000 mg/kg

Skin irritation:

rabbit: Mildly irritating. (Primary skin irritation test)

Eye irritation :

rabbit: Nonirritating.

12. Ecological information

*Information on: imazapyr**Acute and prolonged toxicity to fish:*

Rainbow trout/LC50 (96 h): > 100 mg/l

*Information on: imazapyr**Acute toxicity to aquatic invertebrates:*

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

*Information on: imazapyr**Toxicity to aquatic plants :*

green algae/EC50: 71 mg/l

13. Disposal considerations

Waste disposal of substance :

See product label for disposal and recycling instructions.

Safety data sheet

ARSENAL

Revision date : 2006/01/11
Version : 1.0

Page : 5/6
(30129775/MDS_GEN_CA/EN)

14. Transport information

Land transport

TDG

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains IMAZAPYR 23%)
Hazard class: 9
ID-number: UN 3082
Packing group: III
Marine pollutant: YES

Air transport

IATA/ICAO

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
contains (IMAZAPYR 23%)
Hazard class: 9
ID-number: UN 3082
Packing group: III

15. Regulatory information

Federal Regulations

Registration status :

DSL, CA released / exempt

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

Local contact information

BASF Canada Product Safety
289-360-1300

Safety data sheet
ARSENAL

Revision date : 2006/01/11
Version : 1.0

Page : 6/6
(30129775/MDS_GEN_CA/EN)

END OF DATA SHEET