

**BASF Australia Ltd**

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**Material Safety Data Sheet**

Product Name:

**FLAME®  
HERBICIDE****NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA****TRADE NAME:** FLAME HERBICIDE**OTHER NAMES:** imazapic  
(±)2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-5-methylnicotinic acid**USE:** Herbicide**MANUFACTURER'S NAME/ADDRESS**  
BASF Australia Ltd  
Norwest Business Park, 7 Maitland Place,  
Baulkham Hills NSW 2153**U.N. NUMBER:** Not Applicable  
**DANGEROUS GOODS CLASS:** Not Applicable**SUBSIDIARY RISK:** Not Applicable**HAZCHEM CODE:** Not Applicable**POISONS SCHEDULE:** Exempt**PACKAGING GROUP:** Not Applicable**EPG:** Not Applicable**PHYSICAL DESCRIPTION/PROPERTIES****APPEARANCE AND ODOUR:** Amber to green-brown clear liquid**BOILING POINT °C:** Not Applicable      **DENSITY kg/L:** 1.07-1.09**VAPOUR PRESSURE:** Not Applicable      **MELTING POINT:** Not Applicable**VAPOUR DENSITY at 15°C:** Not Applicable      **EVAPORATION RATE:** Not available**SOLUBILITY (WATER):** Fully miscible      **PERCENT VOLATILES:** 65% as water**FIRE/EXPLOSION HAZARD  
FLASH POINT °C :**> 90      **AUTOIGNITION °C:** NA**LEL:** Not available      **UEL:** Not available**INGREDIENTS**

INGREDIENT	CAS NO.	PROPORTION (w/v)
Imazapic	81334-60-3	26.0%
ammonium hydroxide	1336-21-6	5.6%
urea	57-13-6	5.4%
buffers	-	1.3%
antifoam/preservative	-	0.2%
water	-	69.7%

## **HEALTH HAZARD INFORMATION**

### **HEALTH EFFECTS**

#### **ACUTE EFFECTS**

No adverse health effects are expected if the product is handled in accordance with this Material Safety Data Sheet and the product label.

#### **SWALLOWED**

Practically non-toxic in single doses.

#### **EYE**

Will irritate the eyes.

#### **SKIN**

May be slightly irritating.

#### **INHALED**

Practically non toxic.

#### **CHRONIC EFFECTS**

No evidence of mutagenicity or teratogenicity in animal tests. In experimental animal studies with the active constituent, anaemia and liver effects were seen at high doses, while muscular effects were seen at lower doses. However, no adverse effects are expected from use of the formulated product when handled according to label directions.

### **FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre.  
Telephone 131126 Australia-wide.

#### **EYE**

If product in eyes, wash it out immediately with water. See a doctor if irritation persists.

#### **SKIN**

Remove contaminated clothing and wash skin thoroughly with soap and water. See a doctor if irritation persists.

#### **INHALED**

Remove to fresh air.

### **ADVICE TO DOCTOR**

Treat symptomatically.

## MSDS - FLAME HERBICIDE

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### **TOXICITY**

Acute toxicity LD <sub>50</sub>	( mg / kg )
Rat oral	>5000
Rat dermal	>5000
Rat inhalation (4 hours)	>2.38mg/L

### **PRECAUTIONS FOR USE**

#### **EXPOSURE LIMITS**

No exposure standard has been allocated to imazapic, the active constituent.  
The NOHSC exposure standard for acetic acid is 25 mg/m<sub>3</sub> Time Weighted Average and 37 mg/m<sub>3</sub> Short Term Exposure Limit.

#### **ENGINEERING CONTROLS**

Provide adequate ventilation.

#### **PERSONAL PROTECTION**

Will irritate the eyes. Avoid contact with eyes. When opening the container and preparing spray, wear elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves.

#### **FLAMMABILITY**

Not flammable (water based).

### **SAFE HANDLING INFORMATION**

#### **STORAGE AND TRANSPORT**

Keep out of reach of children.

Store in the closed, original container in a dry, cool, well-ventilated area.

Do NOT store for prolonged periods in direct sunlight.

#### **SPILLS AND DISPOSAL**

Wear protective clothing specified in "Precautions for Use: Personal Protection". Dike spill area to prevent release. Absorb with an inert absorbent material (eg. Granular clay or sawdust) and shovel or sweep into covered containers for disposal at an approved landfill. Rinse spill area several times with soapy water. Contain and absorb rinsate with absorbent material and place into same disposal containers as spilled residues. Small spills to soil can be shovelled directly into disposal containers. Do NOT store spillage in unlined steel or aluminium containers.

Depending on the quantity released to the environment, notifications to regulatory authorities may be required. If spill is to a water body, immediately notify applicable authorities downstream, so that contingencies can be taken.

End-Users: Triple or preferably pressure rinse containers before disposal. Add rinsate to spray tank. Do NOT dispose of undiluted chemicals on-site.

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If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

### **FIRE/EXPLOSION HAZARD**

#### Fire Extinguishing Media:

Use water, foam, carbon dioxide, or dry chemical extinguisher.

#### Fire Control Tactics:

Keep unnecessary people away. Wear self-contained positive pressure breathing apparatus, and full fire fighting protective clothing. Use as little water as possible. Dike area of fire to prevent herbicidal run-off. Use spray or fog; solid stream may cause spreading. If water enters drains, advise authorities downstream

Decontaminate personnel and equipment with soap and water, before leaving the fire site. During decontamination, and when handling broken packages or containers, wear protective equipment.

Avoid breathing dusts, vapours and fumes from burning material. Thermal decomposition may produce oxides of carbon and nitrogen.

### **OTHER INFORMATION**

#### **PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS**

Do NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

Do NOT spray within 50 m of wetlands or waterways.

#### **PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

Do NOT contaminate streams, rivers or waterways with the chemical or used containers.

### **DISCLAIMER**

This MSDS 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. It should read taking into account how the product is handled in your particular situation and how it is used in conjunction with other products.

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Collated by HerbiGuide. Phone 08 98444064 for more information.