## **SAFETY DATA SHEET**

Date: Nov /2016 Code: HS312

#### **Company Identification**

ADAMA Andina B.V. Sucursal Colombia Calle 1C # 7-53 Interior Zona Franca Phone: (057)3851890 www.adama.com

Barranquilla, Colombia

#### **Emergency numbers**

CISPROQUIM 2886012 Bogotá (Colombia) 01 8000 916 012 National Toll Free (Colombia) 24-hour care 365 days a year.



# **Shotgun**

Imazapir 240 gr. / L



**Imazapyr** 

Family: Imidazolinonas Use: herbicide



## 2. Hazards Identification

Appearance: Product Soluble concentrate, Bluish - greenish white with ammonia odor

Physical and chemical

properties:

Not flammable Not explosive Not oxidizing

Human health hazards: K

Keep out of the reach of children

Risks to the environment:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

# 3. Composition / information on ingredients

Chemical Name	CAS number	EC number	Content (% w / w)	Molecular Formula	synonym	Classification
2-(4-isopropyl-4-methyl-5-oxo- 2-imidazolin-2-yl)nicotinic acid, isopropylammonium	81510-83-0	617-240-2	240 gr./L	C <sub>13</sub> H <sub>15</sub> N <sub>3</sub> O <sub>3</sub>	lmazapyr	R52/53

#### 4. First Aid Measures

**Inhalation:** Remove victim to fresh air. If breathing is difficult: artificial respiration. Get medical attention.

**Ingestion:** Wash out mouth with plenty of water. Never give anything by mouth to an unconscious

person. Get medical attention.

Skin contact: Remove contaminated clothing and shoes. Wash away remainder with plenty of water.

Eye contact: Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get

medical attention.

**Note to physician:** No specific antidote known. Treat symptomatically and give supportive therapy.

**Protection of First Aid:** Wear suitable gloves and eye / face protection.

See Section 8

# 5. Fire Fighting Measures

Suitable extinguishing media:

For small fire: dry chemical powder, water spray carbon dioxide

For large fire: foam, water fog, water spray.

Hazardous decomposition

products:

Nitrogen oxides (NO, NO2), Carbon oxides (CO, CO2).

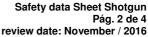
**Protection against fire** Self-contained breathing apparatus and total protection required in enclosed areas.

#### 6. Measures in case of Accidental Spill

Personal protection: Observe all protection and safety precautions when cleaning up spills. Wear suitable

gloves and eye / face protection.

See Section 8





Environmental precautions: Do not empty into drains Do not discharge into the environment.

Measures in case of spillage:

Collect spills and put it into appropriated container. Dispose of this material and its container at hazardous or special waste collection point.

7. Handling and Storage

**Handling Precautions:** Ventilation required.

Storage precautions: Keep in original containers. Keep away from food, drink and animal feed stuffs. Store in

dry, well-ventilated area.

Storage - away from Direct sunlight.

Precautions in handling and

Handle in accordance with good industrial hygiene and safety procedures. storage:

8. Exposure Control / Personal Protection

Industrial hygiene: Ventilation required.

Personal protective equipment

Respiratory system: No special respiratory protection equipment is recommended under normal conditions of use with

adequate ventilation.

Skin and body: Wear suitable protective clothing Wear safety boots.

hands: Wear suitable gloves.

eyes: Chemical goggles or safety glasses.

TLV - ACGIH [mg/m<sup>3</sup>]: Imazapyr isopropylammounium: 0.5

**Working Procedures and** 

Wash hands thoroughly after handling. When using do not eat, drink or smoke. Wash clothing

Safety: before re-using.

9. Physical and chemical properties

Form: Soluble concentrate. Colour: Bluish - greenish

Odor: Ammonia 6-8

pH: **Melting point:** Not available **Evaporation rate:** Not available **Boiling point:** Not available Flashpoint: Not available

**Evaporation rate:** Not available Inflammability: Not flammable

Vapor pressure: <0.013@ 60°C (Imazapyr)

Relative density: 1.060 Solubility: Miscible

Partition coefficient n-octanol / water: 0.11 (Imazapyr) Ignition temperature: Not available **Decomposition temperature:** Not available **Explosive properties:** Not explosive Oxidative properties: Not oxidizing

10. Stability and reactivity

Stability: Stable under normal conditions.

Materials to avoid: oxidizing agents, acids, alkali.

**Hazardous Decomposition:** nitrogen oxides (NO, NO2), carbon oxides (CO, CO2).



# 11. Toxicological information

**Acute toxicity** 

Oral, Rat LD50 (mg/kg): >2,000 Dermal, Rat LD50 [mg/kg] >2,000

Inhalation, Rat LC50

[mg/l/4h]>5.22 Skin corrosion / irritation: Not irritating

Serious eye damage /

irritation:

Minimal irritant

Respiratory or skin

sensitisation: Non sensitizer

Germ cell mutagenicity: (Imazapyr): Not mutagenic Carcinogenicity: Not classified

Imazapyr: Reproductive toxicity: Not classified STOT-single exposure: Not available STOT-repeated exposure: Not available Aspiration hazard: Not available

### 12. Ecological Information

Common name **Imazapyr** 

**Acute toxicity** 

96 H-LC50 - Rainbow trout

[mg/l]:

48 H-EC50 - Daphnia magna

>100 [mg/l]: 120 H - EC50 Algae [mg/l]:

Bees LD50 [µg]:

LD50 - Japanese quail

Not toxic to bees

>100

[mg/kg]:

>2,000 Long-term exposure: Not available

Persistence - degradability

Soil:

Moderately persistent in soil

Half-life time (t1/2) Field: 25-142 days.

Water: Half-life time (t1/2) = 7 days

Bioaccumulative potential: Low bioaccumulation potential (log Kow=0.11).

Mobility:

Soil:

Low mobility

Low risk of underground water contamination.

Results of PBT and vPvB

assessment

Not available

Other adverse effects: None known.

# 13. Considerations Relating to the Elimination

Waste management: To avoid contamination all precautions for the use of this product should be taken into

account, according to its registered use. If you cannot safely handle and dispose of

waste safely.

**Disposal methods:** After completely emptying the contents of this container, rinse placing clean water to

occupy a quarter of that: plug it, shake it hard, then pour the solution to the spray tank while being filled, repeat this procedure three (3) times. Finally unusable by crushing or piercing the package to be delivered to the nearest dealer for further incineration in

places authorized by the ANC. No package must be reused.

#### 14. Transport Information

Not classified

**IMDG-Marine** pollution NO



15. Regulatory Information

#### National regulations:

- 1. Law 769/202. National road traffic code. Article 32: Burden of a veiculo must be properly packaged, labeled, packed and filled in accordance with national technical regulations.
- 2. Decree 1609 of July 31, 2002, whereby the motor ground handling and transportation of dangerous goods by road is regulated.
- 3. Ministry of Transport. Resolution 3800 of December 11, 1998. By which is adocta design and unique mechanisms of calcification distribution of cargo manifest format are set.
- **4.** Law 55 of 1993 from the presidency of the replublica through which the Convention No. 170 and Recommendation No. 177 on the safe use of chemicals at work is approved.
- **5.** Decree 4741 of 2005. By which regulates parcialamente prevention and management of waste or hazardous waste generated within the framework of comprehensive management.

Risk Phrases: R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

**Safety Phrases:** S57 Use appropriate containment to avoid environmental contamination.

S60 This material and its container must be disposed of as hazardous waste. S29/35 Do not empty into drains; dispose of this material and its container in a safe

way.

S13 Keep away from food, drink and animal feedingstuffs.

S46 If swallowed, seek medical advice immediately and show this container or label.

S02 Keep out of the reach of children.

#### 16. Other informations

Material Safety Data Sheet Material according to 91/155 / CEB.93 / 112 / EEC (as amended) and OSHA, 29 CFR 1910.1200 (g). The information contained herein is considered accurate and reliable, based on the recommendations given by the good manufacturing practices and manipulation of these products entered in the available literature. But it is up to the user under his sole responsibility to decide whether this information is appropriate and useful.

This material should only be used by people who are aware of the safety standards required and to know the recommendations in this material safety data sheet for any further information contact the Emergency Phone: 2886012 CISPROQUIM Bogota (Colombia), Line 01 8000 916 012 national free (Colombia) 24-hour care los365 days a year.

#### **ABREVIATURAS:**

**ACGIH:** American Conference of Governmental Industrial Hygienists (USA)

**CAS:** (Chemical Abstract Service) Entity that organizes information published in Chemical Abstracts by the American Chemical Society.

LC50: Lethal Concentration 50% EC50: Effective Concentration 50%

LD50: Lethal dose 50%

NFPA: National Fire Protection Association (USA)

**STEL** (Short Time Exposure Limited) Limit value of allowable concentration in a short time of exposure or maximum concentration for continuous exposure over a period of 15 minutes (with a maximum of four such periods per day, with at least 60 minutes between exposure periods provided that the daily value of TLV - TWA is not exceeded.

**TWA** (Time Weight Average) permissible average value, time weighted for a normal eight-hour work day or 40 hours per week.

TLV (Threshold Limit Value) measures of toxicity established by the ACGIH.

NIOSH National Institute for Occupational Safety and Health

**OSHA:** Occupational Safety & Health Administration)

**PEL:** Permissible Exposure Limit **REL:** Recommended Exposure Limit

**UN:** United Nations

**KOW:** Coefficient of n-octanol water partition **NTP:** National Institute for Safety and Health at Work.

DOT: Department of Transportation

IMO: International Maritime Organization

IATA: International Air Transport Association

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