



Safety Data Sheet

Preparation Date 28-Jan-2021

Revision date 01-Jul-2024

Revision Number: 2

1. Identification of the Substance/Preparation and of the Company/Undertaking

Identification of the product

Product Description Top Deck Aquatic Herbicide

Other means of identification

Internal SDS code 12-500A

Registration number(s) 70506-355

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

Uses advised against Activities contrary to label recommendation

Non labeled activities

Details of the Supplier of the Safety Data Sheet

Supplier Address

UPL NA Inc.

PO Box 12219

Research Triangle Park, NC 27709-12219

Emergency telephone number

Company Phone Number 1-800-438-6071

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison and Drug Safety (866) 673-6671 (24hrs)

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|--------------------------------------|-------------|
| Acute toxicity - Inhalation (Vapors) | Category 4 |
| Skin Corrosion/Irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization | Category 1 |

Label elements

EMERGENCY OVERVIEW

WARNING

Hazard Statements

HARMFUL IF INHALED

Causes serious eye irritation

May cause an allergic skin reaction

**Appearance** Clear**Physical state** Liquid**Odor** Mild aromatic**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection

Do not get in eyes, on skin, or on clothing

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor if you feel unwell

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)**OTHER INFORMATION**

- MAY BE HARMFUL IF SWALLOWED
- Toxic to aquatic life

- Toxic to aquatic life with long lasting effects

3. Composition/information on Ingredients

| Chemical name | CAS No | Weight-% |
|----------------------------|-------------|----------|
| Imazamox | 114311-32-9 | 12.1 |
| Ammonium hydroxide | 1336-21-6 | 2.5 |
| 1,2-Benzisothiazolin-3-one | 2634-33-5 | 0.2 |

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures**FIRST AID MEASURES****Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a poison control center or doctor for treatment advice.

Skin contact

Wash off immediately with soap and plenty of water. Call a poison control center or doctor for treatment advice.

Inhalation

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects no data available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None.

Specific hazards arising from the chemical

No information available.

Explosion data

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin and eyes. Use personal protective equipment. Avoid dust formation. Provide adequate ventilation. Remove all sources of ignition. Wash thoroughly after handling.

Environmental Precautions

Environmental precautions Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Clean-Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Handling Wear personal protective equipment. Avoid dust formation in confined areas. Avoid contact with skin and eyes. Provide adequate ventilation. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Storage Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labelled containers. Keep in a dry, cool and well-ventilated place.

incompatible materials No materials to be especially mentioned.

8. Exposure Controls/Personal Protection

| | |
|--------------------------------------|---|
| Exposure guidelines | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
| Engineering controls | Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. Provide appropriate exhaust ventilation at places where dust is formed. |
| Personal protective equipment | |
| Eye/Face Protection | Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact. If splashes are likely to occur, wear:. Goggles. |
| Skin protection | Wear protective gloves/clothing. Socks and footwear. |
| Respiratory protection | Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134. |

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Wear respiratory protection.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | | |
|---|--------------------------|------------------------|
| Appearance | Clear | |
| Physical state | Liquid | |
| Odor | Mild aromatic | |
| color | Light yellow | |
| Property | VALUES | Remarks/ Method |
| pH | | None known |
| Melting point/freezing point | | None known |
| Boiling Point/Range | | None known |
| Flash Point | > 94.1 °C | None known |
| Evaporation Rate | | None known |
| Flammability (solid, gas) | | None known |
| Specific gravity | 1.0484 | None known |
| Bulk density | | None known |
| Water solubility | | None known |
| Solubility in Other Solvents | No information available | None known |
| Partition coefficient: n-octanol/water | | None known |
| Autoignition temperature | | None known |
| Decomposition temperature | | None known |
| Viscosity | | None known |

9.2 OTHER INFORMATION- NONE

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

No materials to be especially mentioned.

Hazardous decomposition products

Carbon oxides.

11. Toxicological Information**Information on Likely Routes of Exposure****Product information**

The information provided below is for a similar formulation:

Imazamox 120 =

Acute oral LD50 (rat) = 5000 mg/kg

Acute dermal LD50 (rat/rabbit) = >2000 mg/kg

Acute inhalation LC50 (rat) = >4.67 mg/L/ 4 hr

Inhalation

May cause irritation of respiratory tract.

Eye contact

May cause slight irritation.

Skin contact

Substance may cause slight skin irritation.

Ingestion

MAY BE HARMFUL IF SWALLOWED.

Information on Toxicological Effects**Symptoms**

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Sensitization**

No information available.

Mutagenic effects

no data available.

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Reproductive effects

Not Available.

STOT - Single Exposure

no data available.

STOT - Repeated Exposure

no data available.

Aspiration hazard

No information available.

Numerical Measures of Toxicity - Product information**LD50 Oral**

> 5000 mg/kg

LD50 Dermal

> 2000 mg/kg

LC50 Inhalation

18.48 mg/l (1 hr)

12. Ecological Information**ecotoxicity**

None known

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

| Chemical name | Log Pow |
|---|------------------------------------|
| Imazamox 114311-32-9 | Koc = 5.36 at 25°C (log Pow = 0.7) |
| 1,2-Benzisothiazolin-3-one 2634-33-5 | 0.76 |

Other Adverse Effects

no data available

13. Disposal Considerations**Waste Treatment Methods****Waste Disposal Method**

Pesticide wastes can be hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packaging

Refer to product label.

| | |
|---------------|--------------------|
| Chemical name | Ammonium hydroxide |
|---------------|--------------------|

14. Transport Information**DOT**

NOT REGULATED

IATA

NOT REGULATED

IMDG

NOT REGULATED

15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

signal word

CAUTION

Harmful if inhaled or absorbed through skin. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below mean high water mark.

International Inventories

USINV

Present

DSL/NDSL

Not present

EINECS/

Not Present

ELINCS**ENCS****China****KECL****PICCS****AICS****TSCA**

Not Present

Present

Not Present

Not Present

Not Present

Not Present

- **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Ammonium hydroxide 1336-21-6 | 1000 lb | | | X |

CERCLA

| Chemical name | RQ | CERCLA EHS RQs | RQ |
|---------------------------------|---------|----------------|---|
| Ammonium hydroxide 1336-21-6 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |

CERCLA

| Component | RQ |
|---|---------|
| Ammonium hydroxide 1336-21-6 (2.5) | 1000 lb |

RCRA**Pesticide Information**

| Component | FIFRA - Restricted Use | FIFRA - Pesticide Product Other Ingredients | FIFRA - Listing of Pesticide Chemicals | California Pesticides - Restricted Materials |
|---|------------------------|---|--|--|
| Imazamox 114311-32-9 (12.1) | | | X | |
| Ammonium hydroxide 1336-21-6 (2.5) | | | X | |
| 1,2-Benzisothiazolin-3-one 2634-33-5 (0.2) | | | X | |

State Regulations**State Right-to-Know**

| Chemical name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-----------------------------------|---------------|------------|--------------|----------|--------------|
| Ammonium hydroxide - 1336-21-6 | X | X | X | | |

International regulations**U.S. EPA Label information**

EPA Pesticide registration number 70506-355

16. Other Information

NFPA HEALTH 1 flammability 0 Instability 0 Physical hazard -

Preparation Date 28-Jan-2021
Revision date 01-Jul-2024

Revision Summary
Update section 2

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End of SDS