Safety Data Sheet



Preparation Date 23-Apr-2015 Revision date 04-Sep-2019 Revision Number: 5

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

Identification of the product

Product Description Current Aquatic Herbicide

Other means of identification

 Product code
 12P-0002

 UN/ID no
 UN3010

 Registration number(s)
 70506-248

Recommended use of the chemical and restrictions on use

Recommended use Aquatic herbicide.

Uses advised against Activities contrary to label recommendation

Details of the Supplier of the Safety Data Sheet

Supplier Address

UPL NA Inc.

630 Freedom Business Center

Suite 402

King of Prussia, PA 19406

Emergency telephone number

Company Phone Number 1-800-438-6071

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887Medical: 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 - Oral	Category 4
Skin Corrosion/Irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard Statements

HARMFUL IF SWALLOWED

Causes severe skin burns and eye damage

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

Revision date 04-Sep-2019



Appearance dark purple Physical state Liquid Odor no data available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

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

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing 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

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC) OTHER INFORMATION

- May be harmful in contact with skin
- Very toxic to aquatic life with long lasting effects

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Ethylene diamine	107-15-3	15.13
Copper sulfate pentahydrate	7758-99-8	31.43

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 Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact

lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or

doctor for treatment advice.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. 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 physician or poison

control center immediately.

Ingestion Call a physician or poison control center immediately. Never give anything by mouth to an

unconscious person. Do not induce vomiting without medical advice.

Protection of First-aidersUse personal protective equipment.

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:. Dry chemical. Carbon dioxide (CO2). Water spray. alcohol-resistant foam.

Unsuitable extinguishing media no data available.

Specific hazards arising from the chemical

No information available.

Explosion data

Protective equipment and precautions for firefighters

Use personal protective equipment. 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 Use personal protective equipment. Avoid contact with skin and eyes. Provide adequate

ventilation. 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.

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 contact with skin and eyes. Do not breathe

vapours or spray mist. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Keep in properly labelled containers. Keep container tightly closed in a dry and Storage

well-ventilated place.

incompatible materials No information available.

8. Exposure Controls/Personal Protection

This product does not contain any hazardous materials with occupational exposure limits **Exposure guidelines**

established by the region specific regulatory bodies.

ACGIH TLV OSHA PEL Chemical name Ethylene diamine TWA: 10 ppm TWA: 10 ppm TWA: 25 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 25 mg/m³

Investigate engineering techniques to reduce exposures. Local mechanical exhaust **Engineering controls**

ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design

of exhaust systems.

Personal protective equipment

Eye/Face Protection Use eye protection to avoid eye contact. Where there is potential for eye contact have eye

flushing equipment available. Safety glasses with side-shields. If splashes are likely to

occur, wear:. Goggles.

Long sleeved clothing. Impervious butyl rubber gloves. Boots. Apron. Skin protection

Respiratory protection In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and

protective suit.

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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state Liquid

Appearance dark purple Odor no data available

color No information available

VALUES Remarks/ • Method Property

9.62

Melting point/freezing point 10.62 °C / 51 °F 102 °C / 216 °F

Boiling Point/Range

Flash Point

Evaporation Rate No information available

Flammability (solid, gas) No information available

Flammability limit in air

Upper Flammability Limit No information available **Lower Flammability Limit** No information available vapor pressure No information available **Vapor Density** No information available Specific gravity No information available Water solubility No information available Solubility in Other Solvents No information available Partition coefficient: n-octanol/waterNo information available

Autoignition temperature no data available **Decomposition temperature** No information available No information available Viscosity, kinematic No information available Dynamic viscosity **Explosive properties** No information available No information available **Oxidizing properties**

OTHER INFORMATION

Softening point
molecular weight
VOC Content
Liquid Density

No information available
No information available
No information available
No information available

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Hazardous polymerisation does not occur. Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Should not be used where pH of water is below 6 due to the possibility that the copper chelate may dissociate and release copper ions which could subsequently be precipitated as insoluble copper salts. Should not be applied when water temperature is below 60 F.

incompatible materials

No information available.

Hazardous decomposition products

Carbon oxides.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information Current:

Acute oral LD50 = 498 mg/kg
Acute dermal LD50 = >2000 mg/kg
Acute inhalation LC50 = 0.81 mg/L 4 hr (rat)
Eye irritation = Moderately irritating.
Skin irritation = SLightly toxic dermally

Inhalation Harmful by inhalation.

Eye contact Moderately irritating to the eyes.

Skin contact May be absorbed through the skin in harmful amounts. Prolonged contact may cause

redness and irritation.

Ingestion MAY BE FATAL 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

SensitizationNo information available. **Mutagenic effects**no data available.

CarcinogenicityThe information below indicates whether any agency has listed any ingredient as a

carcinogen.

Reproductive effects Not Available. STOT - Single Exposure no data available.

12P-0002 Current Aquatic Herbicide

STOT - Repeated Exposure no data available.
Chronic toxicity Avoid repeated exposure.

Target organ effects liver, kidney, Respiratory System, skin.

Aspiration hazard No information available.

Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document .

 LD50 Oral
 498 mg/kg (rat)

 LD50 Dermal
 > 2000 mg/kg (rat)

 LC50 Inhalation
 0.81 mg/l (rat) (4-hr)

12. Ecological Information

Marine Pollutant.

ecotoxicity

Toxic to fish and aquatic invertebrates

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
Ethylene diamine	-1.221
107-15-3	

Other Adverse Effects

no data available

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method Pesticide wastes are acutely 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 Ethylene diamine

14. Transport Information

DOT When shipped non-bulk domestically (US) the Marine pollutant marking is not required.

UN/ID no UN3010

Proper shipping name Copper based pesticides liquid, toxic

Hazard class 6.1 Packing group PG III

IMDG - Marine Pollutant Marine Pollutant.

<u>ICAO</u>

UN/ID no UN3010

Proper shipping name Copper based pesticides liquid, toxic

Hazard class 6.1 Packing group PG III

Description IMDG - Marine Pollutant

IATA

UN/ID no UN3010

Proper shipping name Copper based pesticides liquid, toxic

Hazard class 6.1 Packing group PG III

Description IMDG - Marine Pollutant

IMDG

UN3010

Proper shipping name Copper based pesticides liquid, toxic

Hazard class 6.1
Packing group PG III
EmS No. F-A,S-A

Environmental hazards IMDG - Marine Pollutant

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 WARNING

Ventilation Control PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO

PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA

WORKER PROTECTION STANDARD 40 CFR PART 170.

Keep out of Reach of Children. Causes moderate eye irritation. Harmful if inhaled or absorbed through skin. May be fatal if swallowed. Toxic to fish and aquatic inverebrates.

International Inventories

USINV Not present
DSL/NDSL Not present
EINECS/ Not Present

ELINCS

ENCS Not Present
China Not Present
KECL Not Present
PICCS Not Present
AICS Not Present
TSCA Not Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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

Revision date 04-Sep-2019

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
Ethylene diamine 107-15-3	5000 lb			Х

CERCLA

Not applicable

Chemical name	RQ	CERCLA EHS RQs	RQ
Ethylene diamine	5000 lb	5000 lb	RQ 5000 lb final RQ RQ 2270 kg
107-15-3			final RQ

CERCLA

Component	RQ
Ethylene diamine	5000 lb
107-15-3 (15.13)	

SARA Product RQ

0

Component	CERCLA EHS RQs
Ethylene diamine	5000 lb
107-15-3 (15.13)	

RCRA

Pesticide Information

State Regulations

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethylene diamine - 107-15-3	Χ	Χ	X		

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-248

16. Other Information

Instability 0 NFPA **HEALTH** 3 flammability 1 Physical hazard -

Preparation Date 23-Apr-2015 **Revision date** 04-Sep-2019

Revision Summary

Update logo **Disclaimer**

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End of SDS