# **Safety Data Sheet**



Preparation Date 10-May-2017 Revision date 05-Sep-2019 Revision Number: 3

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

Identification of the product

Product Description Motif Herbicide

Other means of identification

 Product code
 12U-331

 UN/ID no
 UN3082

 Registration number(s)
 70506-331

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

Uses advised against

Non labeled activities

**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 215-715-2174

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)

Skin sensitization Category 1

## Label elements

## **EMERGENCY OVERVIEW**

# WARNING

Hazard Statements

May cause an allergic skin reaction



Appearance Semi-viscous Physical state Liquid Odor aromatic

#### **Precautionary Statements - Prevention**

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

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

IF ON SKIN: Wash with plenty of soap and water

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

Wash contaminated clothing before reuse

#### **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

# 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Mesotrione	104206-82-8	40
1,2-Benziosothiazolin-3-one (Proxel	2634-33-5	0.1
GXL)		

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 plenty of water for at least 15 minutes. Remove and wash

contaminated clothing before re-use. 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.

## 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 no data available.

#### Specific hazards arising from the chemical

No information available.

Hazardous combustion products Flammable hydrogen gas can be liberated from contact with some metals.

#### **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** Avoid contact with skin and eyes. Do not get in eyes, on skin, or on clothing. Wear

protective gloves/protective clothing and eye/face protection.

**Environmental Precautions** 

Consult a regulatory specialist to determine appropriate state or local reporting **Environmental precautions** 

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, **Methods for Clean-Up** 

sawdust). Sweep up and shovel into suitable containers for disposal.

# 7. Handling and Storage

# Precautions for safe handling

Spray solutions of this product should be mixed, stored and supplied using only plastic and Handling

> plastic lined steel stainless or fiberglass plastic containers. Concentrate should not be stored or maintained in long term contact with galvanized steel, copper, aluminum, brass or

cast iron.

## Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep only in original

container.

incompatible materials Potassium permanganate.

# 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.

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.

Skin protection Respiratory protection

Wear protective gloves/clothing. Chemical resistant footwear plus socks.

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.

# 9. Physical and Chemical Properties

# Information on basic physical and chemical properties

Physical state Liquid

Appearance Semi-viscous Odor aromatic

**color** white

<u>Property</u> <u>VALUES</u> <u>Remarks/ • Method</u>

pH 3.52

Melting point/freezing point
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid, gas)

no data available
No information available
No information available
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 1.1908 g/ml @ 20 C Water solubility Miscible with water Solubility in Other Solvents No information available Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** no data available **Decomposition temperature** No information available Viscosity, kinematic No information available 161.5 cPa@20 C **Dynamic viscosity** 

Dynamic viscosity 161.5 cPa@20 C
Explosive properties No information available
Oxidizing properties No information available

#### OTHER INFORMATION

Softening point
molecular weight
VOC Content
Liquid Density

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

Bulk density 10 lb/gal

# 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

Potassium permanganate.

## **Hazardous decomposition products**

no data available.

# 11. Toxicological Information

# Information on Likely Routes of Exposure

**Product information** Motif:

Acute inhalation LC50 (rat) = > 5.386 mg/L 4hr Acute dermal LD50 (rat) = >5000 mg/kg Acute oral LD50 (rat) = >5000 mg/kg

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** May cause slight irritation.

**Skin contact** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

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
STOT - Single Exposure
STOT - Repeated Exposure
Aspiration hazard
Not Available.
no data available.
No information available.

#### Numerical Measures of Toxicity - Product information

**LD50 Oral** > 5000 mg/kg (rat) **LD50 Dermal** > 5000 mg/kg (rat)

LC50 Inhalation Inhalation LC50 > 22 mg/l (1 hr)

# 12. Ecological Information

Marine Pollutant.

# ecotoxicity

Mesotrione formulation 40%:
Bob white quail 14 day LD50 = >2000 mg/kg
Daphnia magna 48 hr EC50 = 840 ppm
Rainbow trout 96 hr LC50 = >114 ppm
Algae 5 day EC50 = 1.9 ppm

## Persistence/Degradability

no data available.

#### **Bioaccumulation/ Accumulation**

Bioaccumulative potential.

Chemical name	Log Pow
1,2-Benziosothiazolin-3-one (Proxel GXL)	1.3
2634-33-5	

## **Other Adverse Effects**

no data available

# 13. Disposal Considerations

**Waste Treatment Methods** 

Waste Disposal Method Dispose of in accordance with all applicable federal, state, and local laws and regulations.

Contaminated packaging Do not reuse empty containers. Rinse empty container with water to ensure removal of all

residue. Observe all applicable regulations for container disposal.

# 14. Transport Information

**DOT**When shipped domestically by highway in non-bulk containers this product can be shipped

as not regulated.

UN/ID no UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s (Mesotrione)

Hazard class 9
Packing group PG III

**IMDG - Marine Pollutant** Marine Pollutant.

**TDG** When shipped in Canada domestic highway non-bulk this product can be shipped as Not

regulated as per TDG 1.45.1

UN/ID no UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Mesotrione)

Hazard class 9
Packing group PG III

Marine Pollutant: Y or N [List

Ingredient(s) with %]

Marine pollutant.

**IATA** 

UN/ID no UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Mesotrione)

Hazard class 9
Packing group PG

**Description** IMDG - Marine Pollutant

<u>IMDG</u>

UN/ID no UN3082

**Proper shipping name** Environmentally hazardous substances, liquid, n.o.s (Mesotrione)

Subsidiary class 9 Packing group PG III

**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:

**CAUTION** signal word

Harmful if absorbed through the skin.

## **International Inventories**

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

**ELINCS** 

**ENCS** Not Present China Not Present **KECL** Not Present Not Present **PICCS 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**

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:

# **CERCLA**

Not applicable

## CERCLA

RCRA

# **Pesticide Information**

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Mesotrione 104206-82-8 ( 40 )			X	

## **State Regulations**

# State Right-to-Know

International regulations U.S. EPA Label information

EPA Pesticide registration number 70506-331

# 16. Other Information

NFPA HEALTH 1 flammability 0 Instability 0 Physical hazard -

Preparation Date10-May-2017Revision date05-Sep-2019

**Revision Summary** 

Update logo **Disclaimer** 

UPL NA Inc. believes that the information and recommendations container herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPL NA Inc. and UPL NA Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

**End of SDS**