# **SAFETY DATA SHEET**

Issuing date: May 1, 2024 Version: 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

# 1.1. Product identifier

PRODUCT NAME : Saponin Extract

1.2. Relevant identified uses of the substance or mixture and uses advised against

RECOMMENDED USE : Seed Treatment

1.3. Details of the supplier of the safety data sheet

**SUPPLIER NAME** : Heads Up® Plant Protectants Inc.

SUPPLIER ADDRESS : 3002 Millar Ave

Saskatoon, Saskatchewan. Canada. S7K5X9

**SUPPLIER PHONE NUMBER** : 1 (866) 368-9306

**EMERGENCY PHONE NUMBER** : Heads Up Plant Protectant Inc.

1 (866) 368-9306

### 2. HAZARDS IDENTIFICATION

# 2.1. Classification

Acute Toxicity (Inhalation)

Serious Eye Damage/Eye Irritation

Skin Corrosion/Irritation

Category 2B

Category 3

### 2.2. Label elements

**HAZARD PICTOGRAMS** 



SIGNAL WORD : Warning

HAZARD STATEMENTS : H332 – Harmful if inhaled

H316 – Causes mild skin irritation H320 – Causes eye irritation

PRECAUTIONARY STATEMENTS : P261 – Avoid breathing dust

P272 – Use only outdoors or in a well

ventilated area

P332 + P313 - IF SKIN irritation occurs, get

medical attention, advice.

**P264** – Wash exposed skin thoroughly after

handling.

RESPONSE : P304+P340 +P312: 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 **P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do so. Continue rinsing.

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P337+P313: If eye irritation persists, get

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medical advice/attention.

STORAGE : NA DISPOSAL : NA

2.3. Other hazards

OTHER HAZARDS NOT CONTRIBUTING TO THE : NA CLASSIFICATION

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Mixtures

This product is a mixture.

Component name	Identifier (CAS-no.)	%
Chenopodium quinoa saponins	404589-23-7	63.020
Other inert ingredients not contributing to hazard classification	-	to 100

Disclaimer: Exact identities and/or concentrations of inert ingredients have been withheld as a trade secret

### 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

GENERAL : Take hazard and precautionary statements into

account.

**IF IN EYES** : Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists, get medical advice/attention.

IF ON SKIN : Wash skin thoroughly with soap and water.

Remove contaminated clothes. IF SKIN irritation occurs, get medical attention, advice.

IF INHALED : 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

**IF SWALLOWED** : Drink plenty of milk or water.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available

# 5. FIRE-FIGHTING MEASURES

# 5.1. Extinguishing media

SUITABLE EXTINGUISING MEDIA : Water, CO<sub>2</sub>, dry chemical, dry sand, alcohol-

resistant foam.

UNSUITABLE EXTINGUISHING MEDIA : N/A

5.2. Special hazards arising from the substance or mixture

SPECIFIC HAZARDS FOR FIREFIGHTING : N/A

HAZARDOUS DECOMPOSITION PRODUCTS : Carbon monoxide (CO), Carbon dioxide (CO2).

5.3. Advice for firefighters

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### PROTECTION DURING FIREFIGHTING

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

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### 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and accidental emergency procedures

PERSONAL PRECAUTIONS

Avoid inhalation and contact with skin and eyes.
 Appropriate personal protective equipment should be worn.

## 6.2. Methods and materials for containment and cleaning up

FOR CONTAINMENT AND CLEAN UP

 Provide adequate ventilation. Avoid inhalation of dust. Dispose of according to the local regulations.

### 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

PRECAUTIONS FOR SAFE HANDLING

Avoid excessive inhalation of dust and contact with skin or eyes. Follow good manufacturing practices for housekeeping and personal hygiene. Wash any exposed skin immediately after handling. Do not eat, drink, or smoke while using this product. Contaminated clothing and shoes should be thoroughly cleaned before re-

### 7.2. Conditions for safe storage, including any incompatibilities

STORAGE CONDITIONS

Keep in tightly closed container, store in a cool, dry, ventilated area. Protect against physical damage.
 None known

INCOMPATIBLE MATERIALS

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1. Control parameters

**CONTROL PARAMETERS** 

: If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

### 8.2. Exposure controls

**ENGINEERING CONTROLS** 

: If appropriate, isolate mixing rooms and other areas where this material is used or openly handled. Apply local exhaust system or maintain these areas under negative air pressure relative to the rest of the operation. Ensure access to showers, eye wash stations and have adequate ventilation systems.

**SKIN PROTECTION** 

Avoid skin contact. Use gloves resistant to this material when prolonged or frequently repeated contact could occur.

**EYE PROTECTION** 

: Use tight-fitting goggles, face shield or safety glasses.

RESPIRATORY PROTECTION

Heads Up® Plant Protectant has an airborne exposure limit of 0.5 mg/ L of air. Therefore, NIOSH/MSHA approved respiratory protection

is recommended when handling. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Wear a dust mask when handling powder.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

PHYSICAL STATE : Fine particle powder

COLOR : Beige, yellow

ODOR : Mild slightly meaty odor

ODOR THRESHOLD : No information available

**pH** : 6.27

MELTING POINT : 156.2 degrees C

FREEZING POINT : No information available

BOILING POINT : No information available

FLASH POINT : No information available

**AUTO-IGNITION TEMPERATURE** : Not Applicable

DECOMPOSITION TEMPERATURE: No information availableFLAMMABILITY (SOLID, GAS): No information available

VAPOR PRESSURE : No information available

BULK DENSITY (g/mL) : 0.20

SOLUBILITY : Soluble in water

VISCOSITY, KINEMATIC: No information availableVISCOSITY, DYNAMIC: No information available

### 10. STABILITY AND REACTIVITY

# 10.1. Reactivity, stability and hazards

**REACTIVITY** . No hazards to be specifically mentioned.

CHEMICAL STABILITY . No information available

POSSIBILITY OF HAZARDOUS REACTIONS . No information available

CONDITIONS TO AVOID . No information available

INCOMPATIBLE MATERIALS : Strong oxidizers

Carbon monoxides, carbon dioxides and

HAZARDOUS DECOMPOSITION PRODUCTS : unidentified compounds may be formed during

combustion.

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### 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### **ACUTE TOXICITY**

Component	Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity
Chenopodium quinoa saponins (CAS 404589-23-7)	LD 50 single dose >5000 mg/kg body weight in rats	>5000 mg/kg body weight in rats	LC 50 calculated by Probit Method was 0.824 mg/L for male rats and >2.04 mg/L for female rats

## SKIN CORROSION/IRRITATION

Chenopodium quinoa saponins are slightly irritating to the skin in rabbits.

### **SERIOUS EYE DAMAGE/IRRITATION**

Chenopodium quinoa saponins are mildly irritating to the eyes.

### RESPIRATORY OR SKIN SENSITIZATION

Chenopodium quinoa saponins are not a contact sensitizer in Guinea pigs.

## **MUTAGENICITY**

No data is available on mutagenicity for this product.

### **CARCINOGENECITY**

No data is available on carcinogenicity for this product.

### REPRODUCTIVE TOXICITY

No data is available on reproductive toxicity for this product.

# STOT - SINGLE EXPOSURE

No data is available on Specific Target Organ Toxicity – Single Exposure for this product.

### STOT - REPEATED EXPOSURE

No data is available on Specific Target Organ Toxicity - Repeated Exposure for this product.

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### **ASPIRATION HAZARD**

No data is available on Aspiration Hazards for this product.

### 12. ECOLOGICAL INFORMATION

### 12.1. <u>Toxicity</u>

### **GENERAL ECOLOGICAL TOXICITY**

Chenopodium quinoa saponins are toxic to fish and other organisms. Do not contaminate water bodies or wetland areas.

### PERSISTANCE AND BIODEGRADABILITY

No specific data on persistence and biodegradability is available for this product.

### **BIOACCUMALATIVE POTENTIAL**

No specific data on bio accumulative potential is available for this product.

#### **MOBILITY IN SOIL**

No specific data on soil mobility is available for this product.

### **OTHER ADVERSE AFFECTS**

No specific data on other adverse effects is available for this product. .

### 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

### WASTE DISPOSAL METHOD

: All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

# 14. TRANSPORT INFORMATION

This product is not considered a dangerous good for transport.

### 15. REGULATORY INFORMATION

# 15.1 United States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

# **16. OTHER INFORMATION**

16.1. Prepared by

SDS PREPARED BY : EcoSafe Natural Products Inc.

16-6782 Veyaness Road, V8M 2C2

Saanichton, B.C., Canada

16.2. Revision date

REVISION DATE : N/A
REVISION COMMENT : N/A

16.3 <u>Disclaimer</u>

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### **DISCLAIMER:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**END OF SAFEY DATA SHEET**