# **SAFETY DATA SHEET**

Issuing date: May 1, 2024	Version:
1. PRODUC	CT 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 sl	heet
SUPPLIER NAME	: Heads Up <sup>®</sup> 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)	- Category 4
Serious Eye Damage/Eye Irritation	Category 2B
Skin Corrosion/Irritation	Category 3
2.2. Label elements	
HAZARD PICTOGRAMS	
	<u>(!)</u>
SIGNAL WORD	: Warning
HAZARD STATEMENTS	: H332 – Harmful if inhaled H316 – Causes mild skin irritation H320 – Causes eye irritation
PRECAUTIONARY STATEMENTS	<ul> <li>P261 – Avoid breathing dust</li> <li>P272 – Use only outdoors or in a well ventilated area</li> <li>P332 + P313 – IF SKIN irritation occurs, get medical attention, advice.</li> <li>P264 – Wash exposed skin thoroughly after</li> </ul>
RESPONSE	<ul> <li>handling.</li> <li>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</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.</li> </ul>

cautiously with water for several minutes. Remove contact lenses, if present and easy to

do so. Continue rinsing.

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STORAGE		P337+P313: If eye irritation persists, get medical advice/attention.
DISPOSAL	:	NA
2.3. <u>Other hazards</u>		
OTHER HAZARDS NOT CONTRIBUTING TO THE CLASSIFICATION	:	NA

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1. Mixtures

This product is a mixture.

Component name	Identifier (CAS-no.)	%
Chenopodium quinoa saponins	404589-23-7	61.3
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. FIR	ST AID MEASURES
4.1. Description of first aid measures	
GENERAL	: Take hazard and precautionary statements into
IF IN EYES	<ul> <li>account.</li> <li>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.</li> </ul>
IF ON SKIN	<ul> <li>Wash skin thoroughly with soap and water.</li> <li>Remove contaminated clothes. IF SKIN irritation occurs, get medical attention, advice.</li> </ul>
IF INHALED	<ul> <li>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</li> </ul>
IF SWALLOWED	: Drink plenty of milk or water.
4.2. Most important symptoms and effects, both acut	e and delayed
No information available	
5. FIRE-F	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 m	ixture
SPECIFIC HAZARDS FOR FIREFIGHTING	: N/A
HAZARDOUS DECOMPOSITION PRODUCTS	: Carbon monoxide (CO), Carbon dioxide (CO2).
5.3. Advice for firefighters	

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.
6. ACCIDE	NTAL RELEASE MEASURES
6.1. Personal precautions, protective equipment a	nd 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 cl	leaning up
FOR CONTAINMENT AND CLEAN UP	: Provide adequate ventilation. Avoid inhalation of dust. Dispose of according to the local regulations.
7. HAI	NDLING 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- use.
7.2. Conditions for safe storage, including any inc	
STORAGE CONDITIONS	: Keep in tightly closed container, store in a cool, dry, ventilated area. Protect against physical damage.
INCOMPATIBLE MATERIALS	: None known
8. EXPOSURE CO	NTROLS/PERSONAL PROTECTION
8.1. <u>Control parameters</u>	
CONTROL PARAMETERS 8.2. <u>Exposure controls</u>	: If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.
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	<ul> <li>Avoid skin contact. Use gloves resistant to this material when prolonged or frequently repeated contact could occur.</li> </ul>
SKIN PROTECTION	<ul> <li>and have adequate ventilation systems.</li> <li>Avoid skin contact. Use gloves resistant to this material when prolonged or frequently repeated</li> </ul>

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

PHYSICAL STATE

COLOR

ODOR

ODOR THRESHOLD

рΗ

**MELTING POINT** 

FREEZING POINT

**BOILING POINT** 

FLASH POINT

**AUTO-IGNITION TEMPERATURE** 

**DECOMPOSITION TEMPERATURE** 

FLAMMABILITY (SOLID, GAS)

VAPOR PRESSURE

BULK DENSITY (g/mL)

SOLUBILITY

VISCOSITY, KINEMATIC

VISCOSITY, DYNAMIC

: Fine particle powder

- : Beige, yellow
- : Mild slightly meaty odor
- : No information available
- : 6.27
- : 156.2 degrees C
- : No information available
- : No information available
- : No information available
- : Not Applicable
- : No information available
- : No information available
- : No information available
- : 0.20
- : Soluble in water
- : No information available
- : 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	
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxides, carbon dioxides and unidentified compounds may be formed during combustion.	

## **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.

## **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

16.2. Revision date

**REVISION DATE** 

**REVISION COMMENT** 

16.3 <u>Disclaimer</u>

- : EcoSafe Natural Products Inc. 16-6782 Veyaness Road, V8M 2C2 Saanichton, B.C., Canada
- : N/A
- : N/A

#### 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