

SAFETY DATA SHEET

Issuing date: September 12, 2022

Version: 1

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier

PRODUCT NAME : Heads Up® RTA Seed Treatment

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

RECOMMENDED USE : Liquid 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

Skin sensitization : Category 1

Skin corrosion : Category 3

2.2. Label elements

HAZARD PICTOGRAMS



SIGNAL WORD : **Warning**

HAZARD STATEMENTS : **H316** – Causes mild skin irritation
H317 – May cause an allergic skin reaction

PRECAUTIONARY STATEMENTS : **P261** – Avoid breathing fume/mist/vapors/spray
P272 – Contaminated work clothing should not be allowed out of the workplace.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE : **P321** – Specific treatment (see Section 4: First Aid Measures on this label).
P363 – Wash contaminated clothing before reuse.
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 – If SKIN irritation or rash occurs: Get medical advice/attention.

STORAGE : N/A

DISPOSAL : **P501** – Dispose of contents and/or container to an approved disposal plant.

2.3. Other hazards

OTHER HAZARDS NOT CONTRIBUTING TO THE CLASSIFICATION : Product contains an ingredient at <1.0 % that is known to be corrosive to metals. Long-term storage of the product in metal containers is not recommended.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixtures

This product is a mixture.

Component name	Identifier (CAS-no.)	%
Chenopodium quinoa saponins	404589-23-7	1.179
Proxel GXL Preservative	2634-33-5 & 1310-73-2	0 – 5
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 : Flush with water, lifting lower and upper eyelids occasionally.

IF ON SKIN : Remove contaminated clothes. Wash skin thoroughly with soap and water. Obtain medical advice if irritation or rash occurs.

IF INHALED : Remove to fresh air. If not breathing, give artificial respiration.

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 EXTINGUISHING MEDIA : Water, CO₂, 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

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. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and accidental emergency procedures

PERSONAL PRECAUTIONS : Avoid inhalation and contact with skin. 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 excessive inhalation of vapors. 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 vapors and contact with skin. 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 incompatibilities

STORAGE CONDITIONS : Long-term storage in metal containers is not recommended.

INCOMPATIBLE MATERIALS : None known

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 chemically 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- PHYSICAL STATE** : Liquid
- COLOR** : Dark red-brown, translucent
- ODOR** : No information available
- ODOR THRESHOLD** : No information available
- pH** : 6.25
- MELTING POINT** : No information available
- FREEZING POINT** : No information available
- BOILING POINT** : No information available
- FLASH POINT** : No information available
- AUTO-IGNITION TEMPERATURE** : Not Applicable
- DECOMPOSITION TEMPERATURE** : No information available
- FLAMMABILITY (SOLID, GAS)** : No information available
- VAPOR PRESSURE** : No information available
- DENSITY AT 20°C (g/mL)** : 1.0053
- SOLUBILITY** : No information available
- VISCOSITY, KINEMATIC** : No information available
- VISCOSITY, DYNAMIC** : 2.22 cP at 20 °C and 1.80 cP at 40 °C

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	:	Long term storage in metal containers.
INCOMPATIBLE MATERIALS	:	None known
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

No specific acute toxicity data is available for this mixture. Acute toxicity data on hazardous components >1.0% total concentration is given below:

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

Heads Up® RTA Seed Treatment is classified as slightly irritating to the skin in rabbits

SERIOUS EYE DAMAGE/IRRITATION

Heads Up® RTA Seed Treatment is not classified as irritating to the eyes

RESPIRATORY OR SKIN SENSITIZATION

No specific respiratory or skin sensitization data is available for this mixture. Respiratory and skin sensitization data on hazardous components >0.1% total concentration is given below:

Component	Respiratory and Skin Sensitization
Chenopodium quinoa saponins (CAS 404589-23-7)	Not a contact sensitizer in Guinea Pigs
Proxel GXL Preservative (CAS 2634-33-5 & CAS 1310-73-2)	May cause allergic skin sensitization in some individuals

MUTAGENICITY

No data is available on mutagenicity for this mixture. No components present at >1.0% of the total concentration are known to be mutagens.

CARCINOGENECITY

No data is available on carcinogenicity for this mixture. No components present at >0.1% of the total concentration are known to be carcinogens.

REPRODUCTIVE TOXICITY

No data is available on reproductive toxicity for this mixture. No components present at >0.1% of the total concentration are known to be reproductive toxins.

STOT – SINGLE EXPOSURE

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

STOT – REPEATED EXPOSURE

No data is available on Specific Target Organ Toxicity – Repeated Exposure for this mixture.

ASPIRATION HAZARD

No data is available on Aspiration Hazards for this mixture.

12. ECOLOGICAL INFORMATION

12.1. Toxicity**GENERAL ECOLOGICAL TOXICITY**

No specific ecological toxicity data is available for this mixture. Ecological toxicity data on hazardous components >1.0% total concentration is given below:

Component	Ecotoxicity
Heads Up® Plant Protectant (CAS 404589-23-7)	Toxic to fish and other aquatic organisms. Do not contaminate water bodies or wetland areas.

PERSISTANCE AND BIODEGRADABILITY

No specific data on persistence and biodegradability is available for this mixture or its components.

BIOACCUMALATIVE POTENTIAL

No specific data on bio accumulative potential is available for this mixture or its components.

MOBILITY IN SOIL

No specific data on soil mobility is available for this mixture or its components.

OTHER ADVERSE AFFECTS

No specific data on other adverse effects is available for this mixture or its components.

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 Disclaimer

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 SAFETY DATA SHEET

