

# **Keystone**

# Safety Data Sheet

Date of Issue: 2020-03-20 Version: 1.2

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

**Product Form:** Liquid Mixture **Product Name:** Keystone

**Product Code:** Keystone 001

# 1.2. Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

Use of the substance / mixture: Plant Bio-stimulant/surfactant/adjuvant

# 1.3. Details Of The Supplier Of The Safety Data Sheet

Address: 2258 Magnussen Place, North Vancouver, B.C. Canada

**Emergency Phone Number:** +1 (778) 835-5251

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification Of The Substance Or Mixture

**GHS-US** classification:

Skin Corr. 1C H314 **Eve Dam** H318

### 2.2. Label Elements

**GHS-US** labeling:

Hazard pictograms (GHS-US)

Signal word (GHS-US) Danger

**Hazard statements (GHS-US)** H314 - Causes severe skin burns and eye damage

H303 - May be harmful if swallowed

Precautionary statements (GHS-US) P260 - Do not breathe mist, vapors, spray

P264 - Wash exposed skin thoroughly after handling P280 - Wear protective gloves,

eye protection

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Remove / Take off immediately all

contaminated clothing. Rinse skin with water / shower

P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position

comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor / physician

P363 - Wash contaminated clothing before reuse

P501 - Dispose of contents / container to comply with local, state and federal

regulations

# 2.3. Other Hazards

Other hazards not contributing to the None

classification

2.4. Unknown Acute Toxicity (GHS-US)



#### No data available

#### **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

#### 3.1. Substance

Full text of H-phrases: see section 16

#### 3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Water	Water	33.3 – 53.8%	Not Classified
Oleic Acid	CAS # 112-80-1	15.0 – 20.0%	Not Classified
Tetra Hydro Furfuryl Alcohol	CAS # 97-99-4	5.0 – 10.0%	Acute Tox. 4, H302 Eye Irrit. 2, H319
Mono Ethanol Amine	CAS # 141-43-5	5.0 – 10.0%	Skin Corr. 1B H319 Eye Dam. 1, H318
Gluconic Acid	CAS # 526-95-4	5.0 – 10.0%	Not Classified
Alkyl Poly Glycoside		8.5%	Not Classified
Plant Oils Mixed. Non- Hazardous GRAS / FIFRA Allowed		1.7%	Not Classified
Proprietary mix natural plant and marine extracts, oils & emulsifier. Non-hazardous GRAS / FIFRA Allowed		6.5%	Not Classified

### **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description Of First Aid Measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at

rest in a position comfortable for breathing. Immediately call a POISON CENTER or

doctor / physician.

First-aid measures after skin contact: Remove / Take off immediately all contaminated clothing. Rinse skin with water /

shower. Immediately call a POISON CENTER or doctor / physician.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor /

physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor / physician.

# 4.2. Most Important Symptoms And Effects, Both Acute And Delayed

Symptoms / injuries: Redness and irritation/ Causes severe skin burns and eye damage.

Symptoms / injuries after eye

contact:

Redness and irritation/ Causes serious eye damage.

# 4.3. Indication Of Any Immediate Medical Attention And Special Treatment Needed

Obtain medical assistance.

#### **SECTION 5: FIREFIGHTING MEASURES**

### 5.1. Extinguishing Media

Suitable extinguishing media: Foam. Dry powder. Water spray.

# 5.2. Special Hazards Arising From The Substance Or Mixture

Reactivity: Thermal decomposition generates: Corrosive vapors.

#### 5.3. Advice For Fire Fighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting

any chemical fire.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory

protection.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# 6.1. Personal Precautions, Protective Equipment And Emergency Procedures

#### 6.1.1. For Non-Emergency Personnel

**Protective equipment:** Safety glasses. Gloves. Protective clothing.

**Emergency procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

**Protective equipment:** Equip clean-up crew with proper protection.

Ventilate area. **Emergency procedures:** 

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or

public waters in significant quantities.

### 6.3. Methods And Material For Containment And Cleaning Up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible.

#### 6.4. Reference To Other Sections

See Heading 8. Exposure controls and personal protection.

#### **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions For Safe Handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work. Provide good ventilation in process area

to prevent formation of vapor. Do not breathe mist, vapors, spray.

Hygiene measures: Wash exposed skin thoroughly after handling. Wash contaminated clothing before

reuse.

# 7.2. Conditions For Safe Storage, Including Any Incompatibilities

**Technical measures:** Comply with applicable regulations.

Storage conditions: Keep container closed when not in use.

Incompatible products: Strong Acids

Incompatible products: Sources of ignition. Direct sunlight.

# 7.3. Specific End Use(s)

No additional information available

#### **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### 8.1. Control Parameters

Provide exhaust ventilation or other engineering controls to minimize the airborne

concentrations of vapors.

8.2. Exposure Controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the

immediate vicinity of any potential exposure.

**Personal protective equipment:** Avoid all unnecessary exposure.

**Hand protection:** Wear protective gloves.

Eye protection: Chemical goggles or face shield.

Skin and body protection: Wear suitable protective clothing.

Other information: Do not eat, drink or smoke during use.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information On Basic Physical And Chemical Properties

Physical state: Liquid

Color: Cloudy / Brownish
Odor: Ammonical / Citrus
Odor threshold: No Data Available

**pH:** 9.95

Relative evaporation rate

(butylacetate=1):

No Data Available

Melting point:

No Data Available

Freezing point:

No Data Available

Boiling point: 88-90°C

Flash point: No Data Available Self ignition temperature: No Data Available **Decomposition temperature:** No Data Available Flammability (solid, gas): No Data Available Vapor pressure: No Data Available Relative vapor density at 20 °C: No Data Available Relative density: No Data Available **Density Solubility:** No Data Available Log Pow: No Data Available

#### 9.2. Other Information

No additional information available.

#### **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapors.

# 10.2. Chemical Stability

Stable under normal conditions.

#### 10.3. Possibility Of Hazardous Reactions

May react with acids

#### 10.4. Conditions To Avoid

Direct sunlight. Extremely high or low temperatures.

# 10.5. Incompatible Materials

Strong Acids

#### 10.6. Hazardous Decomposition Products

Thermal decomposition generates: Corrosive vapors (based on 100% MEA)

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

# 11.1. Information On Toxicological Effects

**Acute Toxicity:** Not Determined

Skin corrosion / irritation: Causes severe skin burns. Serious eye damage / irritation: Causes serious eye damage.

Respiratory or skin sensitization: Not Classified Germ cell mutagenicity: Not Classified Carcinogenicity: Not Classified

Specific target organ toxicity (single

exposure):

Not Classified Not Classified

Specific target organ toxicity

(repeated exposure):

Reproductive toxicity:

Not Classified

Aspiration hazard: Not Classified

Potential Adverse human health

effects and symptoms:

Based on available data, the classification criteria are not met.

Symptoms / injuries after eye

contact:

Causes serious eye damage.

# **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

# **NuVita Grow**

**Toxicity** Not established. However modeling of individual ingredients (ECOSAR) shows low

toxicity.

# 12.2. Persistence And Degradability

# **NuVita Grow**

Not established. However modeling of individual ingredients (EPISUITE) shows no P Persistence and degradability

and readily biodegraded.

#### 12.3. **Bioaccumulative Potential**

#### **NuVita Grow**

Bioaccumulative potential: Not established. However modeling of individual ingredients (EPISUITE) shows little

bioaccumulation potential.

12.4. Mobility In Soil

No Data Available.

12.5. Other Adverse Effects

Other information: None

**SECTION 13: DISPOSAL CONSIDERATIONS** 

13.1. Waste Treatment Methods

**Waste disposal recommendations:** Dispose in a safe manner in accordance with local / national regulations.

**Ecology - waste materials:** Avoid release to the environment. Does not damage plants.

**SECTION 14: Transport information** 

In accordance with DOT:

Classification: 8, III

DOT Proper Shipping Name: R e v 5

**Department of Transportation (DOT)** 

Hazard Classes:

8 - Class 8 - Corrosive material 49 CFR

173.136

8 - Corrosive substances



Packing group (DOT) III – Minor Danger

**Additional Information** 

Other information The Hazardous classification is based on 100% MEA as the most hazardous

ingredient in this mixture, this product has <10% after mixing it is no longer in the form of MEA. The resultant product does however have a relatively high pH so would be

classified in a mixture as corrosive.

**Transport By Sea** 

No additional information available

**Air Transport** 

No additional information available

**SECTION 15: REGULATORY INFORMATION** 

15.1. US Federal Regulations

No Further Information

15.2. International Regulations

**CANADA** No Further Information

**EU REGULATIONS** 

**European Labeling In Accordance With EC Directives** 

Hazard Symbols:

Risk Phrases: R 20 / 21 / 22 Harmful by inhalation, in contact with skin and if swallowed.

R 34 Causes burns.

Safety Phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S 36 / 37 / 39 Wear suitable protective clothing, gloves and eye / face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show

the label where possible).

15.2.1 Classification According To Directive 67 / 548 / EEC or 1999 / 45 / EC		
	See Above	
15.3. National Regulations		
	No Additional Information Available.	
15.3. US State Regulations		
	No Additional Information Available.	
<b>SECTION 16: OTHER INFORMATION</b>		
Other information	None	
Full text of H-phrases: see section 16:		
Eye Dam. 1	Serious eye damage / eye irritation, Category 1	
Skin Corr. 1B	Skin corrosion / irritation, Category 1B	
Skin Corr. 1C	Skin corrosion / irritation, Category 1C	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
NFPA health hazard:	<ul><li>3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.</li></ul>	
NFPA fire hazard:	0 - Materials that will not burn.	
NFPA reactivity:	<ul><li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li></ul>	
HMIS III Rating		
Health:	3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	

Flammability: 0 Minimal Hazard Physical: 0 Minimal Hazard

**Personal Protection:** Н

# SDS US (GHS HazCom 2012)

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