

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.19.2023

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### Liquid Trophy Rock

#### SECTION 1: Identification

##### Product Identifier

**Product Name:** Liquid Trophy Rock

##### Recommended Use of the Product and Restriction on Use

**Relevant Identified Uses:** Animal Feed Additive

**Uses Advised Against:** Human Consumption

**Reasons Why Uses Advised Against:** Not intended for human consumption.

##### Manufacturer or Supplier Details

###### Manufacturer:

###### United States

Redmond Minerals, Inc.

2725 N. 100 West

Redmond, Utah 84652

435-201-1322

##### Emergency Telephone Number:

###### United States

CHEMTREC

(800) 424-9300 (24 hours)

#### SECTION 2: Hazard(s) Identification

**GHS Classification:** Not a hazardous substance or mixture

##### Label elements

**Hazard Pictograms:** None

**Signal Word:** None

**Hazard statements:** None

**Precautionary Statements:** None

**Hazards Not Otherwise Classified:** None

#### SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 1344-01-0	Silicic acid, aluminum calcium sodium salt	10-20
CAS Number: 7647-14-5	Sodium chloride	10-20
CAS Number: 68476-78-8	Molasses	<6

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CAS Number: 1302-78-9	Bentonite	<1
CAS Number: 14808-60-7	Silica, crystalline quartz	<0.5

### Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

## SECTION 4: First Aid Measures

### Description of First Aid Measures

#### General Notes:

Show this Safety Data Sheet to the doctor in attendance.

#### After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention.

#### After Skin Contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and laundry before reuse. If skin irritation develops or persists, seek medical advice/attention.

#### After Eye Contact:

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention.

#### After Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

### Most Important Symptoms and Effects, Both Acute and Delayed

#### Acute Symptoms and Effects:

No significant adverse effects/symptoms.

#### Delayed Symptoms and Effects:

No significant delayed effects/symptoms.

### Immediate Medical Attention and Special Treatment

#### Specific Treatment:

Not determined or not applicable.

#### Notes for the Doctor:

Treat symptomatically.

## SECTION 5: Firefighting Measures

### Extinguishing Media

#### Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

#### Unsuitable Extinguishing Media:

Do not use water jet.

### Specific Hazards During Fire-Fighting:

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Thermal decomposition may produce irritating and toxic fumes including carbon oxides, sodium oxides, aluminum oxides, silicon oxides, calcium oxides and chlorine gas.

### Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

### Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

## SECTION 6: Accidental Release Measures

### Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

### Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

### Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

### Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

## SECTION 7: Handling and Storage

### Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

### Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

## SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

### Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
OSHA	Silica, crystalline quartz	14808-60-7	8-Hour TWA-PEL: 0.05 mg/m <sup>3</sup> (respirable)
	Silica, crystalline quartz	14808-60-7	8-Hour TWA-PEL: 0.025 mg/m <sup>3</sup> (Action level - respirable)
ACGIH	Silica, crystalline quartz	14808-60-7	8-Hour TWA: 0.025 mg/m <sup>3</sup> (respirable fraction)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Silicic acid, aluminum calcium sodium salt	1344-01-0	8-Hour TWA: 1 mg/m <sup>3</sup> (Aluminum metal and insoluble compounds, Respirable Fraction)
NIOSH	Silica, crystalline quartz	14808-60-7	REL-TWA: 0.05 mg/m <sup>3</sup> (respirable - up to 10 hr)
	Silica, crystalline quartz	14808-60-7	IDLH: 50 mg/m <sup>3</sup> (respirable)
	Silicic acid, aluminum calcium sodium salt	1344-01-0	REL: 2 mg/m <sup>3</sup> (Aluminum soluble salts and alkyls, as Al) 10 h workday)
United States(California)	Silica, crystalline quartz	14808-60-7	8-Hour TWA-PEL: 0.05 mg/m <sup>3</sup> (respirable dust)
	Silica, crystalline quartz	14808-60-7	REL: 3 ug/m <sup>3</sup> (chronic inhalation [respirable])
	Silicic acid, aluminum calcium sodium salt	1344-01-0	8-Hour TWA: 2 mg/m <sup>3</sup> (Aluminum soluble salts)

### Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

### Information on Monitoring Procedures:

Not determined or not applicable.

### Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

### Personal Protection Equipment

#### Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

#### Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

#### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

### General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

## SECTION 9: Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

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<b>Appearance</b>	Brown liquid
<b>Odor</b>	Not determined or not available.
<b>Odor threshold</b>	Not determined or not available.
<b>pH</b>	8.7
<b>Melting point/freezing point</b>	- 6°C
<b>Initial boiling point/range</b>	Not determined or not available.
<b>Flash point (closed cup)</b>	Not determined or not available.
<b>Evaporation rate</b>	Not determined or not available.
<b>Flammability (solid, gas)</b>	Not determined or not available.
<b>Upper flammability/explosive limit</b>	Not determined or not available.
<b>Lower flammability/explosive limit</b>	Not determined or not available.
<b>Vapor pressure</b>	Not determined or not available.
<b>Vapor density</b>	Not determined or not available.
<b>Density</b>	Not determined or not available.
<b>Relative density</b>	Not determined or not available.
<b>Solubilities</b>	Not determined or not available.
<b>Partition coefficient (n-octanol/water)</b>	Not determined or not available.
<b>Auto/Self-ignition temperature</b>	Not determined or not available.
<b>Decomposition temperature</b>	Not determined or not available.
<b>Dynamic viscosity</b>	Not determined or not available.
<b>Kinematic viscosity</b>	Not determined or not available.
<b>Explosive properties</b>	Not determined or not available.
<b>Oxidizing properties</b>	Not determined or not available.

## SECTION 10: Stability and Reactivity

### Reactivity:

Not reactive under recommended handling and storage conditions.

### Chemical Stability:

Stable under recommended handling and storage conditions.

### Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

### Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

### Incompatible Materials:

None known.

### Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological Information

### Acute Toxicity

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

**Product Data:** No data available.

**Substance Data:**

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Name	Route	Result
Sodium chloride	oral	LD50 Rat: 3550 mg/kg
	inhalation	LC50 Rat: >10.5 mg/L (4 hr [aerosol])
	dermal	LD50 Rabbit: >10,000 mg/kg
Silicic acid, aluminum calcium sodium salt	dermal	LD50 Rabbit: >5000 mg/kg
	oral	LD50 Mouse: >2000 mg/kg

### Skin Corrosion/Irritation

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

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Bentonite	Airborne dust may cause mechanical irritation/abrasion of the skin.

### Serious Eye Damage/Irritation

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

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Bentonite	Airborne dust may cause serious eye irritation/abrasion.

### Respiratory or Skin Sensitization

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

**Product Data:**

No data available.

**Substance Data:** No data available.

### Carcinogenicity

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

**Product Data:** No data available.

**Substance Data:**

Name	Species	Result
Silica, crystalline quartz		May cause cancer via inhalation.

### International Agency for Research on Cancer (IARC):

Name	Classification
Silica, crystalline quartz	Group 1

### National Toxicology Program (NTP):

Name	Classification
Silica, crystalline quartz	Known to be human carcinogens

### OSHA Carcinogens:

Ingredient Name	CAS	OSHA Carcinogens Status
Silica, crystalline quartz (respirable)	14808-60-7	Yes

### Germ Cell Mutagenicity

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

**Product Data:**

No data available.

**Substance Data:** No data available.

### Reproductive Toxicity

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

**Product Data:**

No data available.

**Substance Data:** No data available.

### Specific Target Organ Toxicity (Single Exposure)

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

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Bentonite	Airborne dust may cause respiratory irritation.

### Specific Target Organ Toxicity (Repeated Exposure)

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

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Silica, crystalline quartz	Causes damage to organs (lungs; kidneys; immune system) through prolonged or repeated exposure via inhalation.

### Aspiration toxicity

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

**Product Data:**

No data available.

**Substance Data:** No data available.

### Information on Likely Routes of Exposure:

Skin contact, eye contact, Inhalation, Ingestion.

### Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

See section 4 of this SDS.

### Other Information:

No data available.

## SECTION 12: Ecological Information

### Acute (Short-Term) Toxicity

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

**Product Data:** No data available.

**Substance Data:**

Name	Result
Sodium chloride	Fish LC50 <i>Lepomis macrochirus</i> : 5840 mg/L (96 hr)
	Aquatic Invertebrates EC50 <i>Daphnia magna</i> : 1900 mg/L (48 hr [immobilization])

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Name	Result
Silicic acid, aluminum calcium sodium salt	Aquatic Plants EC50 Pseudokirchneriella subcapitata: >75 mg/L (72 h)
	Aquatic Invertebrates EC50 Daphnia magna: >75 mg/L (48 h)
Bentonite	Fish LC50 Oncorhynchus mykiss: 19,000 mg/L (96 hr)

### Chronic (Long-Term) Toxicity

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

**Product Data:** No data available.

#### Substance Data:

Name	Result
Sodium chloride	Fish NOEC Pimephales promelas: 252 mg/L (33 d)
	Aquatic Invertebrates NOEC Daphnia pulex: 314 mg/L (21 d [reproduction])

### Persistence and Degradability

**Product Data:** No data available.

#### Substance Data:

Name	Result
Sodium chloride	Degradation/biodegradation testing is not relevant for inorganic substances such as this one.
Silicic acid, aluminum calcium sodium salt	Biodegradability studies are not required for inorganic chemicals as they cannot be tested for biodegradability.

### Bioaccumulative Potential

**Product Data:** No data available.

#### Substance Data:

Name	Result
Silicic acid, aluminum calcium sodium salt	This study is waived as the substance is inorganic and therefore has a low potential for bioaccumulation.

### Mobility in Soil

**Product Data:** No data available.

**Substance Data:** No data available.

### Results of PBT and vPvB assessment

#### Product Data:

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

#### Substance Data:

##### PBT assessment:

Sodium chloride	PBT assessment does not apply to inorganic substances.
Silicic acid, aluminum calcium sodium salt	PBT assessment does not apply as substance is an inorganic salt.

##### vPvB assessment:

Sodium chloride	vPvB assessment does not apply to inorganic substances.
Silicic acid, aluminum calcium sodium salt	vPvB assessment does not apply as substance is an inorganic salt.

**Other Adverse Effects:** No data available.

## SECTION 13: Disposal Considerations

### Disposal Methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to



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applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

### Contaminated packages:

Not determined or not applicable.

## SECTION 14: Transport Information

### United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

### International Maritime Dangerous Goods (IMDG)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

## SECTION 15: Regulatory Information

### United States Regulations

**Inventory Listing (TSCA):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export Notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 Extremely Hazardous Substances:** None of the ingredients are listed.

**SARA Section 313 Toxic Chemicals:** None of the ingredients are listed.

**CERCLA:** None of the ingredients are listed.

**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

### Massachusetts Right to Know:

14808-60-7	Silica, crystalline quartz	Listed
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### New Jersey Right to Know:

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14808-60-7	Silica, crystalline quartz	Listed
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**New York Right to Know:** None of the ingredients are listed.

**Pennsylvania Right to Know:**

14808-60-7	Silica, crystalline quartz	Listed
1344-01-0	Silicic acid, aluminum calcium sodium salt	Listed

**California Proposition 65:**

**⚠️WARNING:** This product can expose you to Silica, crystalline (airborne particles of respirable size); which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Additional information:** Not determined.

## SECTION 16: Other Information

**Abbreviations and Acronyms:** None

**Disclaimer:**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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**End of Safety Data Sheet**