

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.26.2019

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Tripoli

SECTION 1: Identification

Product identifier

Product name: Tripoli

Synonyms: Crystalline silica

Product code: Tripoli

Recommended use of the product and restriction on use

Relevant identified uses: Tripoli is a mineral additive used in polishing and buffing compounds for metal finishing. The mineral is also used in some friction products and as an additive in purging compounds for equipment.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

American Tripoli Inc.

222 Onieda Street

Seneca MO, 64865

+ 1 417-776-2216 Fax: + 1 417-776-2217

bruce@americantripoli.com

Emergency telephone number:

United States

Emergency phone number:

+ 1 417-776-2216

SECTION 2: Hazard(s) identification

GHS classification:

Specific target organ toxicity - repeated exposure, category 1

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H372 Causes damage to respiratory system through prolonged or repeated exposure by inhalation.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash hands/eyes/mouth/skin/clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified:

Depending on the type of handling and use (e.g. grinding, drying), airborne respirable crystalline silica may

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be generated. Prolonged and/or massive inhalation of respirable crystalline silica may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled. This product should be handled with care to avoid / minimize dust generation

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 1317-95-9	Tripoli - Crystalline Silica	98
CAS number: 7631-86-9	Amorphous Silica	2

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

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Product will not burn

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Non-combustible. No hazardous thermal decomposition under normal conditions of storage and use

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Not determined or not applicable.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

- Avoid airborne dust generation
- Ensure adequate ventilation
- Ensure air handling systems are operational
- Wear protective eye wear, gloves and clothing

Environmental precautions:

No special requirement

Methods and material for containment and cleaning up:

- Wear protective eye wear, gloves and clothing
- Sweep or scoop up solid material while minimizing dust generation
- Dispose of contents / container in accordance with local regulations

Reference to other sections:

See sections 8 and 13 of this safety data sheet

SECTION 7: Handling and storage

Precautions for safe handling:

- Use only with adequate ventilation.
- Avoid breathing dust.
- Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

- Keep container tightly sealed.
- Keep container dry.
- Store in a cool, well-ventilated area.
- Minimize airborne dust generation and prevent wind dispersal during loading and unloading.
- Keep containers closed and store packaged products to prevent accidental bursting.

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
United States (OSHA)	Tripoli - Crystalline Silica	1317-95-9	8 Hour TWA : 0.05 mg/m ³
	Amorphous Silica	7631-86-9	8-hour TWA: 0.8 mg/m ³ (Table Z-3)
	Amorphous Silica	7631-86-9	TWA: 6 mg/m ³ (precipitated and gel) (Table Z-1-A)
United States (California)	Tripoli - Crystalline Silica	1317-95-9	8 Hour TWA : 0.05 mg/m ³

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Tripoli - Crystalline Silica	1317-95-9	8 Hour TWA : 0.025 mg/m ³
NIOSH	Tripoli - Crystalline Silica	1317-95-9	8 Hour TWA : 0.05 mg/m ³
	Amorphous Silica	7631-86-9	REL (10-hr): 6 mg/m ³
	Amorphous Silica	7631-86-9	IDLH: 3000 mg/m ³

Biological limit values:

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

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Cream or rose colored, free flowing non-metallic mineral powder
Odor	Odorless
Odor threshold	Not determined or not available.
pH	Cream = 6.2 - 7.0 (10% Aq. Soln) ; Rose = 5.3 - 6.0 (10% Aq. Soln)
Melting point/freezing point	Cream - 1707°C (3104.6°F) ; Rose - 1640°C (2984°F)
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Product will not burn.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.

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Vapor density	Not determined or not available.
Density	2.15 - 2.45 g/mL
Relative density	Not determined or not available.
Solubilities	Negligible in water. ; Silica will dissolve in hydrofluoric acid and produce a corrosive gas, silicon tetrafluoride (SiF ₄).
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Product is inert, not reactive.

Chemical stability:

Product is chemically stable under normal conditions of storage and use.

Possibility of hazardous reactions:

Silica will react with hydrofluoric acid and produce a corrosive gas, silicon tetrafluoride (SiF₄).

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

No decomposition products formed under normal conditions of storage and use.

SECTION 11: Toxicological information

Acute toxicity

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

Product data: No data available.

Substance data:

Name	Route	Result
Amorphous Silica	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rabbit: >5000 mg/kg
	inhalation	LC50 Rat: >58.8 mg/L (4 hr)

Skin corrosion/irritation

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

Product data:

No data available.

Substance data: No data available.

Serious eye damage/irritation

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

Product data:

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No data available.

Substance data: No data available.

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: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Amorphous Silica	Group 3 - Not classifiable as to its carcinogenicity to humans

National Toxicology Program (NTP):

Name	Classification
Tripoli - Crystalline Silica	Known to be human carcinogens

Germ cell mutagenicity

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: No data available.

Specific target organ toxicity (repeated exposure)

Assessment:

Causes damage to organs through prolonged or repeated exposure

Product data:

No data available.

Substance data:

Name	Result
Tripoli - Crystalline Silica	Causes damage to organs through prolonged or repeated exposure.

Aspiration toxicity

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

Product data:

No data available.

Substance data: No data available.

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Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

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: No data available.

Chronic (long-term) toxicity

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

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Amorphous Silica	BCF: 3.16 L/kg

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Amorphous Silica	Mobile (log Koc: 1.337)

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 applicable regulatory entities

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)

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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):

1317-95-9	Tripoli - Crystalline Silica	Listed
7631-86-9	Amorphous Silica	Listed

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:

1317-95-9	Tripoli - Crystalline Silica	Listed
7631-86-9	Amorphous Silica	Listed

New Jersey Right to Know:

1317-95-9	Tripoli - Crystalline Silica	Listed
7631-86-9	Amorphous Silica	Listed

New York Right to Know:

1317-95-9	Tripoli - Crystalline Silica	Listed
7631-86-9	Amorphous Silica	Not Listed

Pennsylvania Right to Know:

1317-95-9	Tripoli - Crystalline Silica	Listed
7631-86-9	Amorphous Silica	Listed

California Proposition 65:

⚠️WARNING: This product can expose you to Tripoli - Crystalline Silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

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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.

NFPA: 3-0-0

HMIS: 3-0-0

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End of Safety Data Sheet