

SDS Preparation Date (mm/dd/yyyy): 10/09/2023

Page 1 of 11

### SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: VITROBOND® HIGH STRENGTH CAPPING COMPOUND CRUSHED

Product Code(s) : TBD

Recommended use of the chemical and restrictions on use

: Sulfur Cement

Use Pattern: Professional Use Only Recommended Restrictions: None known.

Chemical family : Mixture

Name, address, and telephone number

Name, address, and telephone number of the manufacturer:

of the supplier: the manufacturer
Atlas Minerals and Chemicals Inc. Refer to supplier

1227 Valley Road Mertztown, PA, USA

19539

Supplier's Telephone # : 610-682-7171

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887

(Outside U.S.).

#### SECTION 2. HAZARDS IDENTIFICATION

## Classification of the chemical

Gray solid.

Mild sulfur odor.

Most important hazards: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Skin Corrosion/Irritation - Category 2

#### Label elements

Hazard pictogram(s)



Signal Word

WARNING!

## Hazard statement(s)

Causes skin irritation. Contains Sulfur. May liberate trace amounts of Hydrogen Sulfide and/or sulfur dioxide gases when heated. Vapors from heated material may cause eye or respiratory irritation. Contact with heated material causes thermal burns.



SDS Preparation Date (mm/dd/yyyy): 10/09/2023

Page 2 of 11

### SAFETY DATA SHEET

#### Precautionary statement(s)

Wash thoroughly after handling. Provide adequate ventilation when melting. Avoid prolonged breathing of vapor. Wear a respirator with organic vapor cartridges if exposure limits are exceeded. Wear protective equipment, such as gloves and face shields, when handling heated material. Keep containers upright to prevent leakage. In case of spillage of heated material, let cool, remove and dispose of in accordance with all applicable local, state and federal environmental regulations. After using, wash hands thoroughly before eating, drinking or smoking.

If overcome by inhalation of vapors, remove to fresh air. If breathing stops, begin artificial respiration. Get medical attention. In case of skin contact with heated material, immerse the affected area in cold water immediately and keep immersed. Do not attempt to remove the material. Get medical attention immediately. In case of eye contact with heated material, flush with water and get medical attention immediately. If contact is with cold material, wash with soap and water. Get medical attention if irritation develops.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs, get medical advice/attention.

#### Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause respiratory tract irritation. May cause eye irritation. May cause an allergic respiratory reaction (e.g. asthma) in some hypersensitive individuals. May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive individuals.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Chemical name</u>                        | Common name and synonyms   | CAS#       | Concentration |
|---|----------------------------|------------|---------------|
| Silica                                      | Crystalline silica, quartz | 14808-60-7 | 40.0 - 60.0   |
| Sulfur                                      | Sulphur                    | 7704-34-9  | 40.0 - 60.0   |
| Carbon black                                | Acetylene black            | 1333-86-4  | 0.1 - 1.0     |
| At 285°F (141°C) [ie. for normal use], fume |                            |            |               |
| the following chemical:                     |                            |            |               |
| Hydrogen sulfide                            | Dihydrogen sulfide H2S     | 7783-06-4  | Trace         |

#### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

Ingestion : DO NOT induce vomiting. Never give anything by mouth to an unconscious person.

Get medical attention.

Inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If

breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTER or doctor/physician if you

feel unwell.

Skin contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical

advice/attention. Take off contaminated clothing and wash before re-use.

: For eye contact, flush with running water for at least 15 minutes. If eye irritation

persists, get medical advice/attention.

## Most important symptoms and effects, both acute and delayed

: Causes skin irritation. Contact may cause redness, swelling and a painful sensation. May cause eye irritation. Symptoms may include stinging and tearing. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive individuals.

#### Indication of any immediate medical attention and special treatment needed

: Treat symptomatically.

#### SECTION 5. FIRE-FIGHTING MEASURES

## Extinguishing media

Eye contact

Suitable extinguishing media

: Carbon dioxide (CO2); dry chemical; alcohol-resistant foam; water fog .

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.



SDS Preparation Date (mm/dd/yyyy): 10/09/2023

Page 3 of 11

## SAFETY DATA SHEET

#### Special hazards arising from the substance or mixture / Conditions of flammability

: Not considered flammable.

## Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

#### Hazardous combustion products

: Carbon dioxide and carbon monoxide. sulfur oxides Hydrogen sulfide

#### Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

## Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Do not breathe fumes or vapors. Refer to protective measures listed in Sections 7 and 8.

#### **Environmental precautions**

Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

## Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. If product is heated and molten, allow product to cool off before cleaning up. Absorb spillage to prevent material damage. Sweep up and shovel into suitable containers for disposal. Pick up and transfer to properly labelled containers. Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

#### Special spill response procedures

 Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Do not breathe fumes or mists. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. At 141°C (285°F) toxic hydrogen sulfide fumes may be present.

## Conditions for safe storage

: Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking.

## Incompatible materials

: Oxidizing agents, mineral acids .

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION



SDS Preparation Date (mm/dd/yyyy): 10/09/2023

Page 4 of 11

### SAFETY DATA SHEET

| Chemical Name    | ACGIH 1                              | TLV         | OSHA                         | OSHA I |  |  |
|------------------|--------------------------------------|-------------|------------------------------|--------|--|--|
|                  | <u>TWA</u>                           | <u>STEL</u> | PEL                          | STEL   |  |  |
| Silica           | 0.025 mg/m³<br>(respirable fraction) | N/Av        | 0.1 mg/m³ (final rule limit) | N/Av   |  |  |
| Sulfur           | N/Av                                 | N/Av        | N/Av                         | N/Av   |  |  |
| Carbon black     | 3.0 mg/m³<br>(inhalable)             | N/Av        | 3.5 mg/m³                    | N/Av   |  |  |
| Hydrogen sulfide | 1 ppm                                | 5 ppm       | N/Av                         | N/Av   |  |  |

### **Exposure controls**

#### Ventilation and engineering measures

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use

explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory

equipment.

Respiratory protection : If airborne concentrations are above the permissible exposure limit or are not known,

use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection

specialists.

Skin protection : Wear protective gloves/clothing. Where extensive exposure to product is possible, use

resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye / face protection : Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles

Other protective equipment : Ensure that eyewash stations and safety showers are close to the workstation location.

Other equipment may be required depending on workplace standards.

General hygiene considerations

: Do not breathe fumes or vapors. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Gray solid.

Odor : Sulfur odor

Odor threshold: No information available.pH: No information available.Melting/Freezing point: No information available.

Initial boiling point and boiling range

>427°C (800°F )

Flash point : 207°C (405°F)

Flashpoint (Method) : Cleveland closed cup

Evaporation rate (BuAe = 1) : No information available.

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

Not applicable.

Upper flammable limit (% by vol.)

: Not applicable.

Oxidizing properties : None known.



SDS Preparation Date (mm/dd/yyyy): 10/09/2023

## SAFETY DATA SHEET

Explosive properties : Not explosive

Vapor pressure : Low Vapor density : N/Ap

Relative density / Specific gravity

: 2.15-2.30

Solubility in water : Slightly soluble.

Other solubility(ies) : No information available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

No information available.

Auto-ignition temperature : No information available.

Decomposition temperature : No information available.

Viscosity : 4000 cps maximum @ 275°F to 300°F (preferred temperature 275°F to 285°F)

Volatiles (% by weight) : none

Volatile organic Compounds (VOC's)

: No information available.

Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.

Other physical/chemical comments

No additional information.

## SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact

with incompatible materials.

Incompatible materials : Oxidizing agents, mineral acids.

Hazardous decomposition products

At 141°C (285°F) toxic hydrogen sulfide fumes may be present.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES

Routes of exposure skin absorption

: YES

## **Potential Health Effects:**

## Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May cause respiratory irritation. Symptoms may include coughing and sneezing.

Sign and symptoms ingestion

: Ingestion may cause severe irritation to the mouth, throat and stomach.

Page 5 of 11



SDS Preparation Date (mm/dd/yyyy): 10/09/2023

Page 6 of 11

### SAFETY DATA SHEET

Sign and symptoms skin

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:Skin Irritation - Category 2 Causes skin irritation.

Sign and symptoms eyes

: May cause eye irritation. Symptoms may include tearing, redness and discomfort.

**Potential Chronic Health Effects** 

: May cause damage to the lungs through prolonged or repeated exposure if inhaled. Prolonged exposure may cause cracking of the skin, dermatitis, possible allergenic response and sensitization.

Mutagenicity

Carcinogenicity

: Not expected to be mutagenic in humans.

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products

Regulations) (WHMIS 2015).

Contains crystalline silica. Crystalline silica is classified as carcinogenic by IARC (Group 1), the ACGIH (Category A2) and the NTP (Group 1 - Known human carcinogen). However, Crystalline silica is listed as causing cancer only when it's particles are airborne and of a respirable size. Airborne respirable particles are not expected for this product, based on the intended use and form of the product as a whole.

This product contains Carbon black, an IARC Group 2B carcinogen. However, the Carbon black used in this product is in a non-respirable form and under normal conditions of use, Carbon black cannot become airborne. The carcinogenic effects of Carbon black are therefore not applicable to this product.

#### Reproductive effects & Teratogenicity

This product is not expected to cause reproductive or developmental effects.

Sensitization to material

 Not expected to be a respiratory sensitizer. May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive individuals.

Specific target organ effects

The substance or mixture is not classified as specific target organ toxicant, single

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

## Medical conditions aggravated by overexposure

: Pre-existing skin and respiratory disorders.

Synergistic materials

No information available.

Toxicological data

: See below for individual ingredient acute toxicity data.

|  | LCso(4hr)        | LD <sub>50</sub> |                  |  |  |  |  |  |
|--|------------------|------------------|------------------|--|--|--|--|--|
| Chemical name  | inh, rat         | (Oral, rat)      | (Rabbit, dermal) |  |  |  |  |  |
| Silica   | N/Av             | N/Av             | N/Av             |  |  |  |  |  |
| Sulfur   | > 9.23 mg/L      | > 3000 mg/kg     | > 2000 mg/kg     |  |  |  |  |  |
| Carbon black   | 6.75 mg/L (dust) | > 10 000 mg/kg   | > 3000 mg/kg     |  |  |  |  |  |
| At 285°F (141°C) [i.e. for normal use], fumes may contain trace amounts of the following chemical: |                  |                  |                  |  |  |  |  |  |
| Hydrogen sulfide   | 0.701 mg/L 4 h   | N/Av             | N/Av             |  |  |  |  |  |

#### Other important toxicological hazards

: None reported by the manufacturer.

#### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Do not release, unmonitored, into the environment. See the following tables for individual ingredient ecotoxicity data.



SDS Preparation Date (mm/dd/yyyy): 10/09/2023

#### Page 7 of 11

## **SAFETY DATA SHEET**

#### Ecotoxicity data:

|                    |            | Toxicity to Fish                         |               |          |  |  |
|--------------------|------------|--|---------------|----------|--|--|
| <u>Ingredients</u> | CAS No     | LC50 / 96h                               | NOEC / 21 day | M Factor |  |  |
| Silica             | 14808-60-7 | N/Av                                     | N/Av          | N/Av     |  |  |
| Sulfur             | 7704-34-9  | >0.005 mg/L (Rainbow trout) (No effects) | N/Av          | None.    |  |  |
| Carbon black       | 1333-86-4  | > 1000 mg/L (Zebra fish)                 | N/Av          | None.    |  |  |

| <u>Ingredients</u> | CAS No     | Toxicity to Daphnia                     |               |          |  |  |
|--------------------|------------|---|---------------|----------|--|--|
|                    |            | EC50 / 48h                              | NOEC / 21 day | M Factor |  |  |
| Silica             | 14808-60-7 | N/Av                                    | N/Av          | N/Av     |  |  |
| Sulfur             | 7704-34-9  | >0.005 mg/L(Water flea)<br>(No effects) | N/Av          | None.    |  |  |
| Carbon black       | 1333-86-4  | > 5600 mg/L/24hr<br>(Daphnia magna)     | N/Av          | None.    |  |  |

| <u>Ingredients</u> | CAS No     | Toxicity to Algae                   |                   |          |  |  |
|--------------------|------------|-------------------------------------|-------------------|----------|--|--|
|                    |            | EC50 / 96h or 72h                   | NOEC / 96h or 72h | M Factor |  |  |
| Silica             | 14808-60-7 | N/Av                                | N/Av              | N/Av     |  |  |
| Sulfur             | 7704-34-9  | N/Av                                | N/Av              | N/Ap     |  |  |
| Carbon black       | 1333-86-4  | > 10 000 mg/L/72hr<br>(Green algae) | N/Av              | None.    |  |  |

## Persistence and degradability

: No data is available on the product itself.

Bioaccumulation potential : No data is available on the product itself.

| <u>Components</u>                   | Partition coefficent n-octanol/ater (log Kow) | Bioconcentration factor (BCF) |
|-------------------------------------|---|-------------------------------|
| Sulfur (CAS 7704-34-9)              | N/Ap  | N/Ap                          |
| Hydrogen sulfide (CAS<br>7783-06-4) | 0.45 at 25°C                                  | no bioaccumulation expected   |

Mobility in soil : The product itself has not been tested.

Other Adverse Environmental effects

: None known.

## SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to

protective measures listed in Sections 7 and 8.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local

regulations.

.



SDS Preparation Date (mm/dd/yyyy): 10/09/2023

Page 8 of 11

## **SAFETY DATA SHEET**

**RCRA** 

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

| Regulatory<br>nformation              | UN Number | UN proper shipping name | Transport<br>hazard<br>class(es) | Packing<br>Group | Label |  |
|---------------------------------------|-----------|-------------------------|----------------------------------|------------------|-------|--|
| 49CFR/DOT                             | None.     | Not regulated.          | not regulated                    | none             |       |  |
| I9CFR/DOT<br>Additional<br>nformation |           |                         |                                  |                  |       |  |
| TDG                                   | None.     | Not regulated.          | not regulated                    | none             |       |  |
| TDG<br>Additional<br>information      |           |                         |                                  |                  |       |  |
| IMDG                                  | None.     | Not regulated.          | not regulated                    | none             |       |  |
| IMDG<br>Additional<br>information     |           |                         |                                  |                  |       |  |
| ICAO/IATA                             | None.     | Not regulated.          | not regulated                    | none             |       |  |
| CAO/IATA<br>Additional<br>nformation  |           |                         |                                  |                  |       |  |

**Special precautions for user** : Appropriate advice on safety must accompany the package.

**Environmental hazards** : See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

**SECTION 15 - REGULATORY INFORMATION** 

## **US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:



SDS Preparation Date (mm/dd/yyyy): 10/09/2023

#### Page 9 of 11

## **SAFETY DATA SHEET**

|                    | TSCA Poports |           | SARA TITLE III:  CERCLA Sec. 302,  TSCA Reportable Extremely |  | 372 Specific Toxic Chemical |                             |  |
|--------------------|--------------|-----------|--|--|-----------------------------|-----------------------------|--|
| <u>Ingredients</u> | CAS#         | Inventory | Quantity(RQ) (40<br>CFR 117.302):                            | Hazardous<br>Substance, 40<br>CFR 355: | Toxic Chemical              | de minimus<br>Concentration |  |
| Silica             | 14808-60-7   | Yes       | N/Ap   | N/Av                                   | No                          | N/Ap                        |  |
| Sulfur             | 7704-34-9    | Yes       | N/Ap   | N/Av                                   | No                          | N/Ap                        |  |
| Carbon black       | 1333-86-4    | Yes       | None.  | None.                                  | No                          | N/Ap                        |  |
| Hydrogen sulfide   | 7783-06-4    | Yes       | 100 lb/ 45.4 kg  | 500 lb TPQ                             | No                          | 1%                          |  |

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

#### **US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

| <u>Ingredients</u> | Californ   |        | iia Proposition 65    |     | State "Right to Know" Lists |     |     |     |     |
|--------------------|------------|--------|-----------------------|-----|-----------------------------|-----|-----|-----|-----|
|                    | OAO#       | Listed | Type of Toxicity      | CA  | MA                          | MN  | NJ  | PA  | RI  |
| Silica             | 14808-60-7 | Yes    | airborne particles of | No  | Yes                         | Yes | Yes | Yes | Yes |
| Sulfur             | 7704-34-9  | No     | N/Ap                  | Yes | Yes                         | No  | Yes | Yes | Yes |
| Carbon black       | 1333-86-4  | Yes    | ne, unbound particle  | Yes | Yes                         | Yes | Yes | Yes | Yes |
| Hydrogen sulfide   | 7783-06-4  | No     | N/Ap                  | Yes | Yes                         | Yes | Yes | Yes | Yes |

## **Canadian Information:**

Canadian Environmental Protection Act (CEPA): All ingredients are present on the DSL.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this Safety Data Sheet contains all the information required by the CPR.

## **International Information:**

Components listed below are present on the following International Inventory list:

| Ingredients      | CAS#       | European<br>EINECs | Australia<br>AICS | Philippines<br>PICCS | Japan ENCS                    | Korea<br>KECI/KECL | China<br>IECSC | NewZealand<br>IOC |
|------------------|------------|--------------------|-------------------|----------------------|-------------------------------|--------------------|----------------|-------------------|
| Silica           | 14808-60-7 | 238-878-4          | Present           | Present              | (1)-548                       | KE-29983           | Present        | HSR003125         |
| Sulfur           | 7704-34-9  | 231-722-6          | Present           | Present              | Present                       | KE-32688           | Present        | HSR001284         |
| Carbon black     | 1333-86-4  | 215-609-9          | Present           | Present              | (5)-3328; (5)-5222            | KE-04682           | Present        | HSR002801         |
| Hydrogen sulfide | 7783-06-4  | 231-977-3          | Present           | Present              | (1)-434; (1)-434; (1)<br>-434 | KE-20209           | Present        | HSR001061         |

### SECTION 16. OTHER INFORMATION

: ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

ATE: Acute Toxicity Estimate

CA: California



SDS Preparation Date (mm/dd/yyyy): 10/09/2023

Page 10 of 11

### SAFETY DATA SHEET

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CFR: Code of Federal Regulations CSA: Canadian Standards Association DOT: Department of Transportation ECHA: European Chemicals Agency

ECOTOX: U.S. EPA Ecotoxicology Database

EINECS: European Inventory of Existing Commercial chemical Substances

ENCS: Existing and New Chemical Substances EPA: Environmental Protection Agency HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IBC: Intermediate Bulk Container

IECSC: Inventory of Existing Chemical Substances IMDG: International Maritime Dangerous Goods

IOC: Inventory of Chemicals

IUCLID: International Uniform Chemical Information Database

KECI: Korean Existing Chemicals Inventory KECL: Korean Existing Chemicals List

LC: Lethal Concentration

LD: Lethal Dose MA: Massachusetts MN: Minnesota N/Ap: Not Applicable N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

NJ: New Jersey

NOEC: No observable effect concentration

NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PA: Pennsylvania

PEL: Permissible exposure limit

PICCS: Philippine Inventory of Chemicals and Chemical Substances

RCRA: Resource Conservation and Recovery Act

RI: Rhode Island

RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act SDS: Safety Data Sheet / Material Safety Data Sheet

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TSCA: Toxic Substance Control Act TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &

Biological Exposure Indices for 2014.

2. International Agency for Research on Cancer Monographs, searched 2015.

 ${\it 3. Canadian \ Centre \ for \ Occupational \ Health \ and \ Safety, \ CCInfoWeb \ databases, \ 2015}$ 

(Chempendium, HSDB and RTECs).

4. Material Safety Data Sheets from manufacturer.

5. US EPA Title III List of Lists - October 2012 version.

6. California Proposition 65 List - December 26, 2014 version

Preparation Date (mm/dd/yyyy)

: 10/09/2023

## Other special considerations for handling

: Provide adequate information, instruction and training for operators.

References



Page 11 of 11

SDS Preparation Date (mm/dd/yyyy): 10/09/2023

#### SAFETY DATA SHEET

#### Prepared for:

Atlas Minerals and Chemicals Inc. 1227 Valley Road Mertztown, PA 19539 610-682-7171



## Prepared by:

ICC The Compliance Center Inc.
Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com



#### DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Atlas Minerals and Chemicals Inc. and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Atlas Minerals and Chemicals Inc.

expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this Safety Data Sheet does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Atlas Minerals and Chemicals Inc.

#### **END OF DOCUMENT**