



Safety Data Sheet (SDS) WOODCHIP

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According to SANS 10234:2019/UN GHS 7th Ed
Revision Date: 22 September 2021

First print date: 22 September 2021

Version: 1.0

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: **WOODCHIP**

Additional information: Woodchip is generated from underground mine supports that become caught up in the precious metal silica ore during blasting.

Relevant identification uses of the substance and uses advised against:

Identified uses: Mining.

Uses advised against: None.

Details of the supplier of the Safety Data Sheet:

LCOA (Pty) Ltd
Office 301 Vineyard Centre,
10 Vineyard Road,
Claremont, Cape Town,
7708

Emergency telephone numbers:

Tel: +27 (0) 21 671 5118 (office hours)

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture:

The mixture is classified according to:

| | |
|---|------------------|
| SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP] | |
| Hazard classes/Hazard categories | Hazard statement |
| Not hazardous | Not required |

For full text of H see section 16

The most important adverse effects;

The most important adverse physiochemical effects: None known.

The most important adverse human health effects: None known.



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Label elements:

Hazard pictograms: Not required.

Signal Words: Not required.

Hazard Statements: Not required.

Precautionary Statements: Not required.

Special labelling of certain mixtures: Not required.

Other hazards: Not known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients: Not hazardous

| Substance name (IUPAC) | CAS –No. | Concentration % by weight | Classification EC1272/2008 |
|---------------------------|------------|------------------------------|-------------------------------|
| | EC/list no | | |
| Silicon dioxide | 14808-60-7 | 50-60% | Not classified. |
| | 238-878-4 | | |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if irritation occurs in dusty environments.

In case of skin contact: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. In case of irritation seek medical attention.

In case of eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for at least 15 minutes. In case of irritation seek medical attention.

In case of ingestion: Unlikely route of exposure. However, if swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if you feel unwell.

Most important symptoms and effects, both acute and delayed:

Inhalation: May cause respiratory tract irritation in dusty environments.



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Ingestions: Not a likely exposure route.

Skin contact: May cause mechanical irritation.

Eye contact: May cause mechanical irritation.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Use any means of extinction appropriate for the surrounding fire conditions such as water spray, carbon dioxide, dry chemical, or foam.

Unsuitable extinguishing media: Water jet, caution must be taken when using water to put out large fires.

Special hazard arising from the mixture:

During fire, gases hazardous to health may be formed.

Advice for fire-fighters:

Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Firefighters must be fully trained and wear full protective clothing including an approved, self-contained breathing apparatus (SCBA) which supplies a positive air pressure within a full-face mask.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Avoid breathing vapours, mist or gas.

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Isolate area. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing dust. Provide adequate ventilation.

For emergency responders: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Do not breathe dust. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions:

Prevent from entering soil, ditches, sewers, waterways and/or groundwater.

Methods for containment and cleaning up:

For small spills: Avoid dust formation, contain spilled material if possible. Return to storage area.

For large spills: Avoid dust formation, contain spilled material if possible. Return to storage area.

Reference to other sections:



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See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information:

None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Protective measures: See section 8.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product. Observe good industrial hygiene.

Conditions for safe storage, including incompatibilities:

When stored in bulk, minimise dust generation by dampening with water or covering with a tarp or similar.

Specific end uses:

Dispose of as regulated.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limits:

Silicon dioxide quartz (CAS 14808-60-7) RHCA-OEL-RL 0.1^(R) mg/m³. ^(R) respirable fraction.

Biological exposure indices (BEI): No data available.

Additional exposure limits under the conditions of use: No data available.

Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control. Ensure that eyewash stations and safety showers are close to the workstation location.

Appropriate engineering controls: Avoid inhalation. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

Individual protection measures, such as personal protective equipment:

Hygiene measures: Wash hands, forearms and face thoroughly after handling material, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.



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Eye/face protection: Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Hand protection: Handle with gloves.

Body protection: Choose body protection in relation to its type and to the specific workplace.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.

Environmental exposure controls: None required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (form): Solid particles various sizes and dust.

Colour: Brown/grey.

Odour: None.

Odour threshold: None.

pH: Not known.

Melting point/range (°C): Not known.

Boiling point/range (°C): Not known.

Flash point (°C): Not applicable.

Evaporation rate: Not known.

Flammability (solid, gas): Not flammable.

Ignition temperature (°C): Not applicable.

Upper/lower flammability/explosive limits: Not known.

Vapour pressure (20°C): Not known.

Vapour density: Not known.

Relative density (25°C): Not known.

Water solubility (g/l) at 20°C: Not known.

n-Octanol/Water partition coefficient: Not known.

Auto-ignition temperature: Not known.

Decomposition temperature: Not known.



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Viscosity, dynamic (mPa s): Not known.

Physical hazards:

None.

Other information:

Fat solubility (solvent-oil to be specified): Not known.

Bulk density: Not known.

Dissociation constant in water (p Ka): Not known.

Oxidation-reduction potential: Not known.

SECTION 10. STABILITY AND RELIABILITY

Reactivity:

Not reactive.

Chemical stability:

Stable under normal conditions of storage.

Possibility of hazardous reactions:

Hazardous polymerization is not expected to occur.

Conditions to avoid:

None.

Hazardous decomposition products:

Metal oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No data available.

Method: No data available.

Dosage: No data available.

Routes of administration: No data available.

Results: No data available.

Absorption: No data available.

Distribution: No data available.



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Metabolism: No data available.

Excretion: No data available.

Information on toxicological effects:

Acute toxicity: No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/irritation: No data available.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: silicon dioxide: Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stages, loss of appetite, pleuritic pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruction of lung tissue. Crystalline silica is classified as group 1 "known to be carcinogenic to humans" by IARC and "sufficient evidence" of carcinogenicity by the NTP., The chronic health risks are associated with respirable particles of 3-4 um over protracted periods of time. Currently, there is a limited understanding of the mechanisms of quartz toxicity, including its mechanisms for lung carcinogenicity. Additional studies are needed to determine whether the cell transforming activity of quartz is related to its carcinogenic potential.

Reproductive toxicity: No data available.

STOT-single exposure: No data available.

STOT-repeated exposure: No data available.

Aspiration hazard: No data available.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

No data available.

Persistence and degradability:

No data available.

Bioaccumulative potential:

No data available.

Mobility in soil

No data available.

Results of PBT& vPvB assessment:



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No data available.

Other adverse effects:

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Consider suitable waste recycling, re-use or recovery options. Dispose of in accordance with municipal, provincial and national regulations. Waste Classification and Management Regulations (GN 634 of 2013). Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

Product/ packaging disposal:

Not applicable.

SECTION 14. TRANSPORT INFORMATION

| | Land transport (ADR/RID) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|---|-----------------------------|-------------------------|---------------------------|
| UN-Number | Not required | Not required | Not required |
| UN Proper shipping name: | Not required | Not required | Not required |
| Transport hazard class: | Not required | Not required | Not required |
| Packaging group: | Not required | Not required | Not required |
| Marine pollutant: | No | No | No |
| Special precautions for user: | None | None | None |
| Transport in bulk according to MARPOL 73/78 Annex II and the IBC code | Not regulated | Not regulated | Not regulated |

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

Relevant information regarding restrictions: None.

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP].

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996). SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No



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SECTION 16. OTHER INFORMATION

Indication of changes:

None first version.

Relevant classification and H statements (number and full text):

None.

Training instructions:

Use as instructed.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.