

SLURRYMONSTER Tank Cleaner

Version No: 1.0

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements



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SECTION 1: IDENTIFICATION**Product Name:** Tank Cleaner**Other Means of Identification:** None Recommended Use: Not available.**Recommended Restrictions:** Workers should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.**Manufacturer****Company Name:** SlurryMonster**Company Address:** 31001 Schoolcraft Road, Livonia, MI 48150 Telephone: 1-877-4SLURRY**Website:** <http://www.slurrymonster.com/>**E-Mail:** info@slurrymonster.com**In case of emergency call 911.****For information about this SDS, use this department contact phone#: 1-877-4SLURRY****SECTION 2: HAZARDS IDENTIFICATION****Physical Hazards:** Not classified**Health Hazards:** Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2B
Carcinogenicity, Category 1A
Specific Target Organ Toxicity, Repeated, Category 1**Environmental Hazards:** Not classified**OSHA Defined Hazards:** Not classified**Label Elements****Signal Word:** Danger**Hazard Statement:** Causes skin irritation. Causes eye irritation. May cause cancer. Causes damage to organs through prolonged or repeated exposure.**Precautionary Statements****Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.**Response:** If exposed or concerned: Get medical advice/attention.**Storage:** Store locked up.**Disposal:** Dispose of contents/contained in accordance with local/regional/national/international regulations.**Description of Other Hazards:** None known.**Supplemental Information:** 6.5% of the mixture consists of component(s) of unknown acute oral toxicity. 76.5% of the mixture consists of component(s) of unknown acute dermal toxicity. 76.5% of the mixture consists of component(s) of unknown acute inhalation toxicity. 6.5% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 76.5% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.**Contact Information**

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Synonym	CAS#	%
TRADE SECRET*		Proprietary*	70
Quartz (SIO ₂)	None	14808-60-7	1 - < 3
Cristobalite	None	14464-46-1	< 1
Other components below reportable levels	None		20 - < 30

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition Comments: Occupational Exposure Limits for impurities are listed in Section 8. This product contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 3%.

SECTION 4: FIRST-AID MEASURES

Inhalation: If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop. Move to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Call a physician if symptoms develop or persist.

Skin Contact: Immediately flush skin with running water for at least 20 minutes. Remove contaminated clothing. Get medical attention if irritation develops or persists. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: Do not rub eyes. Immediately flush eyes with plenty of water for at least 20 minutes. Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion: Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek medical attention. Get medical attention if symptoms occur.

Most Important Symptoms/Effects, Acute and Delayed: Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of Immediate Medical Attention and Special Treatment Needed: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General Information: IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, CO₂, water spray or regular foam.

Unsuitable Extinguishing Media: None known.

Specific Hazards Arising from the Chemical: During fire, gases hazardous to health may be formed.

Special Protective Equipment and Precautions for Firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use water spray to cool unopened containers.

Specific Methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General Fire Hazards: No unusual fire or explosion hazards noted.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Measures for Environmental Protection: Do not let product enter drains. Avoid discharge into drains, water courses or onto the ground.

Measures for Cleaning/Collecting: Stop leak if you can do so without risk. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Sweep up or gather material and place in appropriate container for disposal.

Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.

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Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime.

SECTION 7: HANDLING AND STORAGE

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Storage: Store locked up. No special restrictions on storage with other products. Store in original tightly closed container. Store in a well-ventilated place. No special storage conditions required. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL TABLE Z-1 Limits for Air Contaminants (29 CFR1910.1000)	OSHA TABLE Z-3 (29 CFR 1910.1000)	ACGIH OEL (TWA) Threshold Limit Values	US. NIOSH: Pocket Guide to Chemical Hazards	Impurities
Cristobalite (CAS 14464-46-1)	0.05 mg/m ³ Respirable dust	0.05 mg/m ³ Respirable <i>1.2 mppcf Respirable</i>	0.025 mg/m ³ Respirable fraction	0.05 mg/m ³ Respirable Dust	N/A
Quartz (SiO ₂) (CAS 14808-60-7)	0.05 mg/m ³ Respirable dust	0.1 mg/m ³ Respirable <i>2.4 mppcf Respirable</i>	0.025 mg/m ³ Respirable fraction	0.05 mg/m ³ Respirable Dust	N/A
Inert or Nuisance Dusts	N/A	N/A	N/A	N/A	5 mg/m ³ Respirable Fraction <i>15 mg/m³ Total Dust 50 mppcf Total Dust 15 mppcf Respirable Fraction</i>

Biological Limit Values: No biological exposure limits noted for the ingredients(s).

Exposure Guidelines: Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

Appropriate Engineering Controls: If engineering measures are not enough to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not enough to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual Protective Measures

Breathing Equipment: Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.

of Skin: Wear appropriate chemical resistant gloves. Impervious butyl rubber gloves. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Use of protective coveralls and long sleeves is recommended. Remove and wash contaminated clothing before re-use.

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Eye Protection: Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter. Eye wash fountain is recommended.

General Protective and Hygienic Measures: Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid

Form: Powder

Color: Tan

Odor: Not available.

Odor threshold: Not available.

pH: 3.5

Melting Point/Melting Range: Not available.

Boiling Point/Boiling Range: Not available.

Flash Point: Not available.

Evaporation Rate: Not available.

Flammability: Not available.

Upper/Lower Flammability or Explosive Limits: Not available.

Auto-Ignition Temperature: Not available.

Danger of Explosion: None.

Vapor pressure: 0.000004 hPa estimated.

Vapor density: Not available.

Relative density: Not available.

Solubility in/Miscibility with Water: 100%

Other Information

Explosive Properties: Not explosive.

Oxidizing Properties: Not oxidizing.

Percent Volatile: 0 % estimated

VOC: CARB

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SECTION 10: STABILITY AND REACTIVITY

Reactivity: This product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability: Material is stable under normal conditions.

Conditions to Avoid: Contact with incompatible materials.

Incompatible Materials: None known.

Hazardous Decomposition Products: No hazardous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation: May cause damage to organs through prolonged or repeated exposure by inhalation. Dust may irritate respiratory system.

Skin Contact: Causes skin irritation.

Eye Contact: Causes eye irritation.

Ingestion: Expected to be a low ingestion hazard.

Related Symptoms to Physical, Chemical, and Toxicological Characteristics: Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain.

Information on Toxicological Effects: Acute toxicity not known.

Components	Type	Species	Test Results
Cristobalite (CAS 14464-46-1)	Acute, Oral, LD50	Rat	> 22500 mg/kg

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Eye Irritation: Causes eye irritation.

Respiratory or Skin Sensitization

Respiratory Sensitization: Not a respiratory sensitizer.

Skin Sensitization: This product is not expected to cause skin sensitization.

Germ Cell Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibers, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

IARC Monographs. Overall Evaluation of Carcinogenicity

CRISTOBALITE (CAS 14464-46-1): 1 Carcinogenic to humans.

QUARTZ (SIO₂) (CAS 14808-60-7): 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

CRISTOBALITE (CAS 14464-46-1): Cancer

QUARTZ (SIO₂) (CAS 14808-60-7): Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

CRISTOBALITE (CAS 14464-46-1): Known To Be Human Carcinogen.

QUARTZ (SIO₂) (CAS 14808-60-7): Known To Be Human Carcinogen.

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

Specific Target Organ Toxicity - Single Exposure: Not classified.

Specific Target Organ Toxicity - Repeated Exposure: Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Not an aspiration hazard.

Chronic Effects: In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Components of this product have been identified as having potential environmental concerns.

Persistence and Degradability: No data is available on the degradability of this product.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local Disposal Regulations: Dispose in accordance with all applicable regulations.

Hazardous Waste Code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from Residues/Unused Products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated Packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION (NON-MANDATORY)

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

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SECTION 15: REGULATORY INFORMATION

US Federal Regulations

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances: Not applicable.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed.

SARA 304 Emergency Release Notification: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

CRISTOBALITE (CAS 14464-46-1): Cancer

QUARTZ (SIO2) (CAS 14808-60-7): Cancer

CRISTOBALITE (CAS 14464-46-1): Lung effects

QUARTZ (SIO2) (CAS 14808-60-7): Lung effects

CRISTOBALITE (CAS 14464-46-1): Immune system effects

QUARTZ (SIO2) (CAS 14808-60-7): Immune system effects

CRISTOBALITE (CAS 14464-46-1): Kidney effects

QUARTZ (SIO2) (CAS 14808-60-7): Kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely Hazardous Substance: Not listed.

SARA 311/312 Hazardous Chemical: No (Exempt)

SARA 313 (TRI Reporting): Not regulated.

Other Federal Regulations


Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

Safe Drinking Water Act (SWDA): Not regulated.

US State Regulations: WARNING: This product contains a chemical known to the State of California to cause cancer.

California Proposition 65

 **WARNING:** This product can expose you to QUARTZ (SIO2), which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov

California Proposition 65 – CRT: Listed Date/Carcinogenic Substance

QUARTZ (SIO2) (CAS 14808-60-7): Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

CRISTOBALITE (CAS 14464-46-1)

QUARTZ (SIO2) (CAS 14808-60-7)

International Inventories

Country(s) or Region	Inventory Name	On Inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes

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Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notifies Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States and Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: OTHER INFORMATION

Issue Date: 3-January-2020

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Version #: 01

HMIS® Ratings:

Health: 3*

Flammability: 0

Physical Hazard: 0

NFPA Ratings:

Health: 2

Flammability: 0

Instability: 0

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. SlurryMonster cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

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