CLAY PLANET



Safety Data Sheet

Section 1. Identification

SDS prepared by Jon Dunlavy 6/10/2015

GHS – United States

| Product Names | Lead-free Oxide Wash: OX-1, OX-3, OX-5 |
|---------------------------|---|
| Synonym | Ceramic Oxide wash – Water based, liquid, Oxide Wash |
| Supplier/ Manufacturer | Clay Planet 1775 Russell Ave Santa Cara, CA 95054 USA 408-295-3352 phone 408-295-8717 fax |
| Emergency Phone | 800-443-2529 toll-free info@clay-planet.com Number 911 |
| – • • • • | |

Product Use Ceramic Sculpture and Pottery Surface coating

Restrictions on use Not for spray application.

Section 2. Hazards Identification

| OSHA/HCS status | This mixture, only when in dry powder form or if sprayed, is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) |
|-----------------------|--|
| Classification of the | OSHA - CARCINOGENICITY (Inhalation) - Category 1A |
| Substance or mixture | (See section 16 for OSHA, IARC, and NTP carcinogen listings) OSHA/HCS - SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) (respiratory tract) (inhalation) - Category 2 |
| Signal Word | Danger |
| Hazard Statement | WARNING! Cancer Hazard. Contains quartz (crystalline silica) which can cause cancer. Risk of cancer depends upon duration and level of exposure to dust. Not an acute hazard. Prolonged inhalation of dry Oxide Wash dust may cause lung injury. Inhalation of high concentrations of dry Oxide Wash dust may cause mechanical irritation and discomfort of the (respiratory tract). Repeated exposure may cause chronic effects. * Oxide Wash in liquid form poses no health risk. Inhalation of dry Oxide Wash dust or ingestion of Oxide Wash should be avoided. |

Planet **CLAY PLANET Safety Data Sheet** SDS prepared by Jon Dunlavy 6/10/2015 GHS – United States GHS label elements / **Hazardous Materials Hazard pictograms** Identification System HAZARD INDEX 0 Minimal Hazard Severe Hazard 4 An asterisk (*) or other designation corresponds to additional informa-tion on a data sheet or separate chronic effects notification. 3 Serious Hazard 2 Moderate Hazard 1 Slight Hazard PERSONAL PROTECTION INDEX **Precautionary Statements DQ** Avoid generating dust. V + Do not breath dust. Avoid skin contact. VV Do not take internally. 1 Avoid fumes from firing. 0 **Fire Hazard Unclassified Hazards** Reactivity 0 E VV Slippery when wet. Е **Personal Protection** V + * Chronic Potential

| % of ingredients with | | |
|-----------------------|------------|--|
| unknown acute | toxicity | |
| 1 | None Known | |

| Section 3: Composition / Info | ormation on Ingred | ients | | | |
|--------------------------------------|-----------------------|--------------------------------------|-------------------|----------------------------|----------------|
| Substances: N/A Mixt | ures: A propriety for | mula trade secret claim is ma | de for this group | of substantially simil | ar mixtures. |
| Chemical | CAS Numbers | Ingredient % of Product I (Glaze) | Mixture | Chemical % of Ing | redient |
| Quartz, SiO2 (Crystalline Silica) | CAS # 14808-60-7 | Frit Silica | 1 - 2 3 - 8 | Frit Silica | 100 98.7-99 |
| Alumina Oxide Al2O3 | CAS # 1344-28-1 | Silica Calcined Alumina | 3-8 1-8 | Silica Calcined Alumina | < 1.1 > 98 |
| Titanium Dioxide TiO2 | CAS # 13463-67-7 | Silica | 3 - 8 | Silica | < 0.1 |
| Sodium Carboxymethyl Cellulose | CAS # 9004-32-4 | CMC Gum | 0.08 - 0.5 | CMC Gum | 99-100 |
| CTAC | CAS # 4080-31-3 | Dowicil-75 | 0.03-0.07 | Dowicil-75 | 64 |
| Nepheline Syenite | CAS # 37244-96-5 | Nepheline Syenite | 1 - 3 | Nepheline Syenite | 100 |
| Frit* | CAS # 65997-18-4 | Frit | 1 - 3 | Frit | 100 |
| Ceramic Pigments** | Varies | Ceramic Pigments | 0.3 - 6 | Ceramic Pigments | 0.3 - 6 |

*Frit, CAS # 65997-18-4, is a complex mixture of materials, fused into a glassy substance, confining the materials into a non-migratory form. **Proprietary blends of pigments used that are not considered a hazard; follow guidelines set for silica as a precaution.



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Section 4: First-Aid Measures

| Description of first-aid | Measures: |
|--|--|
| First-aid measures general | Never give anything by mouth to an unconscious person. If you feel unwell, seek medical attention. |
| First-aid measures after inhalation | Move victim to well ventilated area. If mechanical discomfort persists, seek medical attention. |
| First-aid measures after skin contact | Remove contaminated clothing. Wash affected area with soap and warm water. Obtain medical attention if irritation persists. |
| First-aid measures after eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. It is recommended to obtain medical attention. |
| First-aid measures after ingestion | Rinse mouth. Give 200-300mL water to drink. Do NOT induce vomiting. If ingested, seek medical attention as a precaution. |
| Most Important Sympt | oms and Effects, both Acute and Delayed: |

| wost important symp | toms and Effects, both Acute and Delayed: |
|---------------------|--|
| Symptoms/injuries | Causes damage to organs through prolonged or repeated exposure (inhalation) from dust. |
| | May Irritate the skin. |
| Symptoms/injuries | May cause cancer by repeated inhalation. Dust from this product may cause irritation to the |
| after inhalation | respiratory tract. |
| Symptoms/injuries | Prolonged contact may cause mechanical irritation. |
| after skin contact | |
| Symptoms/injuries | Prolonged contact with large amounts of dust may cause mechanical irritation. Oxide Wash |
| after eye contact | is abrasive and may scratch eyes. |
| Symptoms/injuries | If a large quantity has been ingested: intestinal blockage, gastrointestinal irritation, or |
| after ingestion | abdominal pain. |
| Chronic symptoms | Repeated or prolonged exposure to respirable crystalline silica dust can cause lung damage |
| | in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, |
| | fever, and weight loss. Acute silicosis can be fatal. |

If exposed or concerned, get medical advice and attention.

Section 5. Fire-Fighting Measures



National Fire Protection Association (U.S.A.)

| Suitable extinguishing media | This product is not combustible. |
|---|---|
| | Use extinguishing media appropriate for surrounding fire. |
| Unsuitable extinguishing media | No restrictions on extinguishing media for this mixture. |
| Special hazards arising from the substance or | This mixture is not flammable and does not support fire. The plastic jars and |
| mixture | cardboard boxes containing the mixture are flammable. |
| Hazardous thermal decomposition products | This mixture does not contain hazardous decomposition products. |
| Special protective actions | Product can become slippery when wet. |
| for fire-fighters | |
| Special protective equipment | Fire-fighters should wear appropriate protective equipment. |
| for fire-fighters | |

Lead-free Underglazes: OX-1, OX3, OX5



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Section 6. Accidental Release Measures

| Use of personal precautions | Avoid inhalation of dry Oxide Wash dust. Wear a N-95 face mask when cleaning up dry Oxide Wash dust. |
|--|---|
| Emergency procedures | There are no emergency procedures required for this mixture. |
| Methods and Materials for containment | Product comes in plastic pint or gallon jars. Do not allow spills or wastewater to flow into sewer or waterway. |
| Clean up procedures | For dry dusts, use a vacuum to clean up spillage. For liquid spills, use suitable absorbent material and place in disposal containers. If appropriate, use gentle water spray to wet down and minimize dust generation. Spill area can be washed with water. Place dry Oxide Wash dust in a sealed container. Wear a N-95 face mask when cleaning up dry Oxide Wash dust . |
| Section 7. Handling & Storage | |
| Precautions for safe handling | Keep out of direct sunlight. Do not expose to freezing. |

Precautions for safe handling

Recommendations on the conditions for safe storage No special storage considerations, but keep in a dry, cool location.

| Section 8. Exposure Controls / Personal Protection | | | | |
|--|------------------|---|--|--|
| Chemical Name | CAS Numbers | Occupational Exposure Limits | | |
| Quartz, SiO2 | CAS#14808-60-7 | ACGIH TLV: TWA 0.025 mg/ m ³ (respirable) | | |
| (Crystalline Silica) | | OSHA PEL : TWA 10 mg/m ³ / divided by the value "%SiO2" + 2 (respirable) | | |
| | | OSHA PEL: TWA 30 mg/m ³ / divided by the value "%SiO2" + 2 (total dust) | | |
| Alumina Oxide | CAS#1344-28-1 | ACGIH TLV: TWA 10 mg/m ³ for particulate matter containing | | |
| AI2O3 | | no asbestos and < 1% crystalline silica | | |
| | | OSHA PEL : TWA 5 mg/ m ³ (respirable) | | |
| | | OSHA PEL : TWA 15 mg/m ³ (total dust) | | |
| Titanium Dioxide | CAS# 13463-67-7 | ACGIH TLV: TWA 10 mg/ m ³ (respirable) | | |
| TiO2 | | OSHA PEL: TWA 15 mg/m ³ (total dust) | | |
| Sodium Carboxymethyl | CAS # 9004-32-4 | ACGIH TLV: Not Established* | | |
| Cellulose | | OSHA PEL: Not Established* | | |
| CTAC | CAS # 4080-31-3 | ACGIH TLV: Not Established* | | |
| | | OSHA PEL: Not Established* | | |
| Nepheline Syenite | CAS # 37244-96-5 | ACGIH TLV: Not Established* | | |
| | | OSHA PEL: TWA 5 mg/ m ³ (respirable) | | |
| | | OSHA PEL: TWA 15 mg/ m ³ (total dust) | | |
| Frit | CAS # 65997-18-4 | ACGIH TLV: Not Established* | | |
| | | OSHA PEL: Not Established* | | |
| Ceramic Pigments | Varies | ACGIH TLV: Not Established* | | |
| | | OSHA PEL: Not Established* | | |

*For values not established, follow guidelines set for silica as a precaution



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Appropriate engineering controls

Oxide Wash in liquid form poses no health risk and no inhalation risk (dust).

Once Oxide Wash has dried, there may be dust generated by cleaning and working processes. In the event that dust is generated, use local exhaust ventilation or other engineering controls as required to maintain exposures below applicable occupational exposure limits (TLV). Not recommended for spray application, but local exhaust system may be used as required to maintain exposures below applicable occupational exposure limits (TLV) while spraying.

Recommendations for personal protective measures

Local Exhaust: When dry sanding or grinding clay/glaze products, or during spray application of underglaze, use sufficient local exhaust to reduce the level of respirable dust to the applicable standards set forth in Section III. See ACGIH "Industrial Ventilation, A Manual of Recommended Practice," latest edition.

Respiratory Protection: Dust is generated when working with dry Oxide Wash or during spray application. To minimize exposure to dust and/or crystalline silica, cutting or sanding dry clay/glaze products should be conducted with sufficient ventilation. Respirable dust and quartz levels should be monitored regularly. Dust and quartz levels in excess of appropriate exposure limits should be reduced by feasible engineering controls, including (but not limited to) wet sanding, wet suppression, ventilation, and process enclosure. When such controls are not feasible, NIOSH/MSHA approved respirators must be worn in accordance with a respiratory protection program which meets OSHA requirements as set forth at 29 CFR1910.134 and ANSI Z88.2-1080 "Practices for Respiratory Protection". In most cases, a disposable N-95 Particulate Respirator is sufficient.

Eye Protection: Use NIOSH/OSHA approved safety glasses with side shields. Face shields should also be used when dry sawing clay/glaze products. Wear tight fitting dust goggles when excessively (visible) dusty conditions are present or are anticipated. NIOSH recommends that contact lenses not be worn when working with crystalline silica dust.

Skin Protection: Use gloves and/or protective clothing if abrasion or allergic reactions are experienced.

Work/Hygienic Practices: Avoid creating and breathing dust. Wear NIOSH/MSHA approved dust mask when working in dusty conditions. (N-95) Food, beverages, and smoking materials should NOT be in the work area. Persons using ceramic materials should wash thoroughly before eating, drinking, smoking, or applying cosmetics.



Protective Clothing Pictograms

N-95 face mask

| | Section | 9. Ph | vsical 8 | & Cł | hemical | Prop | erties |
|--|---------|-------|----------|------|---------|------|--------|
|--|---------|-------|----------|------|---------|------|--------|

| Physical State | Liquid Oxide Wash |
|---------------------------|--------------------|
| Appearance | Colored liquid |
| Odor | Earthy |
| Odor Threshold | Not Applicable |
| рН | 6 - 8 |
| Solubility in Water | Miscible |
| Melting Point | > 982 °C (>1800°F) |
| Freezing Point | < 0 °C (<32°F) |
| Specific Gravity | 1.3 - 1.8 |
| Relative Density | 10.8 - 15.0 lb/gal |
| Evaporation Rate | No data available |
| Boiling Point | 100°C (212°F) |
| Flash Point | Not Applicable |
| Auto-Ignition Temperature | Not Applicable |
| Decomposition Temperature | Not Applicable |
| Flammability | Not Applicable |
| Vapor Pressure | Not Applicable |
| Vapor Density | Not Applicable |

Lead-free Underglazes: OX-1, OX3, OX5



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| Section 9. Physical & Chemical Properties | |
|---|----------------|
| Explosive Limits | Not Applicable |
| Viscosity | Not Applicable |
| Partition Coefficient: n-octanol/water | Not Applicable |

| Hazardous reactions will not occur under normal conditions. |
|---|
| Stable at standard temperature and pressure. No stabilizers required to maintain chemical stability. |
| Hazardous polymerization will not occur. |
| None known. |
| None known |
| None Known. |
| |

Section 11: Toxicological Information

Routes of Exposure

Inhalation of dry Oxide Wash dust, Ingestion

| Descriptions of the delayed, immediate | e, or chronic effects from short- and long-term exposure |
|---|---|
| Inhalation | Inhalation of high concentrations of dry Oxide Wash dust may cause |
| | mechanical irritation and discomfort. Repeated exposure may cause chronic |
| | effects. |
| Eye Contact | Not a primary eye irritant. May cause mechanical irritation. |
| Skin Contact/Irritation | May cause mechanical irritation. Not absorbed through skin. |
| Sensitization | Not a sensitizer. |
| Ingestion | May cause intestinal blockage. |
| Chronic Effects | |
| OSHA Carcinogen | Lung cancer – Silica has been classified by OSHA as a human lung carcinogen. |
| _ | Repeated or prolonged exposure to respirable crystalline silica dust can cause |
| | lung damage in the form of silicosis. Symptoms will include progressively more |
| | difficult breathing, cough, fever, and weight loss. Acute silicosis can be fatal. |
| Mutagenic Effects | None Known |
| Teratogenic Effects | None Known |
| Developmental Toxicity | None Known |
| Effects of Silicosis | Symptoms of Silicosis |
| Bronchitis/Chronic Obstructive Pulmonary | Shortness of breath; possible fever. |
| Disorder. | Fatigue; loss of appetite. |
| Tuberculosis – Silicosis makes an individual | Chest pain; dry, nonproductive cough. |
| more susceptible to TB. | Respiratory failure, which may eventually lead to death. |
| Scleroderma – a disease affecting skin, blood | |
| vessels, joints and skeletal muscles. | |
| Possible renal disease. | |
| Numerical Measures of toxicity | None Known |



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Section 12. Ecological Information (non-mandatory)

Prevent from entering drains, sewers and waterways.

Section 13. Disposal Considerations (non-mandatory) **Personal Protection** Refer to Section 8: "Recommendations for Personal Protective Measures" when disposing of ceramic waste. **Appropriate disposal containers** Standard waste disposal containers – no specials requirements. Appropriate disposal methods Disposal of this product should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. The generation of waste should be avoided or minimized. Dispose of non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Physical and chemical properties that may affect disposal Dry Oxide Wash dust should be placed in a sealed container or in a manner that reduces or eliminates the release of the product. Liquid glaze should be placed in suitable container. Packaging should be recycled before disposal. Sewage disposal Do not dispose of into sinks or toilets. They will clog. Never dispose of this product into a sewer system. Special precautions for landfills There are no special precautions for disposal in a landfill. This product is or incineration activities non-combustible and is not suitable for incineration.

Section 14. Transportation Information (non-mandatory)

| Regulatory Information | UN Number | UN Proper Shipping Name | Transport Hazard Class | Packing Group Number | Bulk Transport Guidance | Special Precautions |
|---------------------------|---------------|----------------------------|---------------------------|-------------------------|----------------------------|------------------------|
| DOT Classification | Not regulated | - | - | - | - | - |
| TDG Classification | Not regulated | - | - | - | - | - |
| ADR/RID Class | Not regulated | - | - | - | - | - |
| IMDG Class | Not regulated | - | - | - | - | - |
| IATA-DGR Class | Not regulated | - | - | - | - | - |

| Section 15. Regulatory Information (non-mandatory) | | | | |
|--|---|--|--|--|
| TSCA – Toxic Substances Control Act - EPA | Quartz and other chemicals are listed in the TSCA Chemical Substance Inventory | | | |
| CONFORMS WITH ASTM D4236 | ASTM - American Society for Testing and Materials | | | |
| California Prop. 65 | WARNING: This product contains a chemical known to the State of California to cause cancer. (Prop. 65 - Calif. Health & Safety Code Section 2549 Et Seq.) | | | |



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Section 16. Other Information

| OSHA, IARC, and NTP Carcinogen Classifications | | | | | | | | |
|--|------|-----------------------|------|----------------|-----|--|--|--|
| Chemical with Carcinogen Potential | | CAS# | OSHA | IARC | NTP | | | |
| Quartz, (Crystalline Silica) | SiO2 | CAS # 14808-60-7 | Yes | Yes - Group 1 | Yes | | | |
| Alumina Oxide | | CAS # 1344-28-1 | No | No - Group 3 | No | | | |
| Sodium Carboxymethyl Cellulose | | CAS # 9004-32-4 | No | No - Group 3 | No | | | |
| CTAC | | CAS # 4080-31-3 | No | No - Group 3 | No | | | |
| Titanium Dioxide | TiO2 | CAS # 13463-67-7 | No | Yes – Group 2b | No | | | |
| Nepheline Syenite | | CAS # 37244-96-5 | No | No – Group 3 | No | | | |
| Frits | | CAS # 65997-18-4 | No | No - Group 3 | No | | | |
| Ceramic Pigments | | Various; Follow | N/A | N/A | N/A | | | |
| | | guidelines for silica | | | | | | |

Substances, mixtures and exposure circumstances in this list have been classified by the <u>IARC</u> as **Group 1**: The agent (mixture) is <u>carcinogenic</u> to humans. The exposure circumstance entails exposures that are carcinogenic to humans. This category is used when there is *sufficient evidence* of carcinogenicity in humans. Exceptionally, an agent (mixture) may be placed in this category when evidence of carcinogenicity in humans is less than sufficient but there is *sufficient evidence* of carcinogenicity in experimental animals and strong evidence in exposed humans that the agent (mixture) acts through a relevant mechanism of carcinogenicity.

The agents in this list have been classified in **Group 2A** (probable <u>carcinogens</u>)^[1] by the IARC (<u>International Agency for Research on</u> <u>Cancer</u>). The term "agent" encompasses both substances and exposure circumstances that pose a risk. This designation is applied when there is *limited evidence* of <u>carcinogenicity</u> in humans as well as *sufficient evidence* of carcinogenicity in <u>experimental animals</u>. In some cases, an agent may be classified in this group when there is *inadequate evidence* of carcinogenicity in humans along with *sufficient evidence* of carcinogenicity in experimental animals and *strong evidence* that the carcinogenesis is mediated by a mechanism that also operates in humans. Exceptionally, an agent may be classified in this group solely on the basis of *limited evidence* of carcinogenicity in humans.

Substances, mixtures and exposure circumstances in this list have been classified by the <u>International Agency for Research on Cancer</u> (IARC) as *Group 2B*: *The agent (mixture) is possibly carcinogenic to humans*. *The exposure circumstance entails exposures that are* possibly carcinogenic to humans. This category is used for agents, mixtures and exposure circumstances for which there is limited evidence of carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals. It may also be used when there is inadequate evidence of carcinogenicity in humans but there is sufficient evidence of carcinogenicity in experimental animals. In some instances, an agent, mixture or exposure circumstance for which there is inadequate evidence of carcinogenicity in experimental animals together with supporting evidence from other relevant data may be placed in this group. Further details can be found in the <u>preamble to the IARC Monograph</u>.

Substances, mixtures and exposure circumstances in this list have been classified by the <u>LARC</u> as *Group 3*: *The agent (mixture or exposure circumstance)* is not classifiable as to its carcinogenicity to humans. This category is used most commonly for agents, mixtures and exposure circumstances for which the evidence of carcinogenicity is inadequate in humans and inadequate or limited in experimental animals. Exceptionally, agents (mixtures) for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans. Agents, mixtures and exposure circumstances that do not fall into any other group are also placed in this category.

Further details can be found in the IARC Monographs.

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Appendix C – Supplementary Exposure Limits

Mineral Dusts

OSHA PELS for "mineral dusts" listed below are from Table Z-3 of 29 CFR 1910.1000. The OSHA PEL (8-hour TWA) for crystalline silica (as respirable quartz) is either 250 mppcf divided by the value " $SiO_2 + 5$ " or 10 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PEL (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PEL (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PEL (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PELs (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PELs (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PELs (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PELs (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PELs (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PELs (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PELs (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PELs (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PELs (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value " $SiO_2 + 2$." The OSHA PELs (8-hour TWA) for crystalline silica (as total quartz) is 30 mg/m³ divided by the value silica (as total quartz) is 30 mg/m³ divided by the value silica (as total quartz) is 30 mg/m³ divided by the value silica (as total quartz) is 30 mg/m³ divided by the value silica (as total quartz) is 30 mg/m³ divided by the value silica (as total quartz) is 3

The OSHA PEL (8-hour TWA) for amorphous silica (including diatomaceous earth) is either 80 mg/m³ divided by the value " SiO_2 ," or 20 mppcf.

The OSHA PELs (8-hour TWAs) for talc (not containing asbestos), mica, and soapstone are 20 mppcf. The PELs for talc (not containing asbestos), mica, and soapstone, are applicable if the material contains less than 1% crystalline silica.

Section 16. Other Information

Definitions

OSHA means Occupational Safety & Health Administration IARC means International Agency for Research on Cancer

Definitions

NTP means National Toxicology Program HCS means Hazardous Communication Standard TLV means Threshold Limit Value - American Conference of Governmental Industrial Hygienists (ACGIH) PEL means OSHA Permissible Exposure Limit TWA means Time Weighted Average (average exposure on the basis of an 8h/day, 40h/week work schedule) CAS means Chemical Abstract Service ASTM means American System of Testing and Materials

This SDS is in compliance with The Globally Harmonized System of Classification and Labeling of Chemicals (GHS). This data sheet is subject to change without notice.

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any patent or in violation of any law or regulation. It is the user's responsibility to determine for himself the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.