

## 1. Identification

|   |  |  |
|---|--|--|
| <b>Product identifier</b>                                     | <b>Great Blue Pipe Joint Compound</b>                                |  |
| <b>Other means of identification</b>                          |  |  |
| <b>SDS number</b>   | 1704E  |  |
| <b>Synonyms</b>   | Part Numbers: 31261, 31262, 32163, 31265, 48330, 48331, 48332, 48333 |  |
| <b>Recommended use</b>  | Pipe Joint Compound for Threaded Metal Pipes                         |  |
| <b>Recommended restrictions</b>                               | None known.  |  |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |  |
| <b>Company Name</b>   | Oatey Co.  |  |
| <b>Address</b>  | 4700 West 160th St.<br>Cleveland, OH 44135                           |  |
| <b>Telephone</b>  | 216-267-7100   |  |
| <b>E-mail</b>   | info@oatey.com   |  |
| <b>Transport Emergency</b>                                    | Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)              |  |
| <b>Emergency First Aid</b>                                    | 1-877-740-5015   |  |
| <b>Contact person</b>   | MSDS Coordinator   |  |

## 2. Hazard(s) identification

|                              |   |            |
|------------------------------|---|------------|
| <b>Physical hazards</b>      | Not classified.                         |            |
| <b>Health hazards</b>        | Health hazards not otherwise classified | Category 1 |
| <b>Environmental hazards</b> | Not classified.                         |            |

### Label elements



|                                 |   |  |
|---------------------------------|---|--|
| <b>Signal word</b>              | Danger  |  |
| <b>Hazard statement</b>         | Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. |  |
| <b>Precautionary statement</b>  |   |  |
| <b>Prevention</b>               | Observe good industrial hygiene practices.  |  |
| <b>Response</b>                 | Wash hands after handling.  |  |
| <b>Storage</b>                  | Store away from incompatible materials.   |  |
| <b>Disposal</b>                 | Dispose of waste and residues in accordance with local authority requirements.                  |  |
| <b>Other hazards</b>            | None known.   |  |
| <b>Supplemental information</b> | None.   |  |

## 3. Composition/information on ingredients

### Mixtures

| <b>Chemical name</b>                                      | <b>CAS number</b> | <b>%</b> |
|---|-------------------|----------|
| Distillates (petroleum),<br>hydrotreated heavy naphthenic | 64742-52-5        | 30-60    |
| Kaolin  | 1332-58-7         | 10-30    |
| Titanium dioxide  | 13463-67-7        | 3-7      |
| Cellulose   | 9004-34-6         | 1-5      |

All concentrations are in percent by weight (kg) unless ingredient is a gas. Gas concentrations are in percent by volume (l).

#### 4. First-aid measures

|   |   |
|---|---|
| <b>Inhalation</b>   | Move to fresh air. Call a physician if symptoms develop or persist.   |
| <b>Skin contact</b>   | Wash off with soap and water. Get medical attention if irritation develops and persists.  |
| <b>Eye contact</b>  | Rinse with water. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>  | Rinse mouth thoroughly. If ingestion of a large amount does occur, call a poison control center immediately. Do not induce vomiting without advice from poison control center.            |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.  |
| <b>General information</b>  | 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. |

#### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                      |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Fire fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.                                 |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

#### 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.   |
| <b>Methods and materials for containment and cleaning up</b>               | The product is immiscible with water and will sediment in water systems.<br><br>Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.  |

#### 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Avoid prolonged exposure. Observe good industrial hygiene practices.  |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

#### 8. Exposure controls/personal protection

##### Occupational exposure limits

##### US. ACGIH Threshold Limit Values

| Components                | Type | Value                | Form |
|---------------------------|------|----------------------|------|
| Cellulose (CAS 9004-34-6) | TWA  | 10 mg/m <sup>3</sup> |      |

**US. ACGIH Threshold Limit Values**

| Components   | Type | Value       | Form                 |
|--|------|-------------|----------------------|
| Crystalline silica (Quartz)<br>(CAS 14808-60-7)                                  | TWA  | 0.025 mg/m3 | Respirable fraction. |
| Distillates (petroleum),<br>hydrotreated heavy<br>naphthenic (CAS<br>64742-52-5) | TWA  | 5 mg/m3     | Inhalable fraction.  |
| Kaolin (CAS 1332-58-7)   | TWA  | 2 mg/m3     | Respirable fraction. |
| Titanium dioxide (CAS<br>13463-67-7)   | TWA  | 10 mg/m3    |                      |

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)**

| Components   | Type | Value       | Form                  |
|--|------|-------------|-----------------------|
| Cellulose (CAS 9004-34-6)  | TWA  | 10 mg/m3    |                       |
| Crystalline silica (Quartz)<br>(CAS 14808-60-7)                                  | TWA  | 0.025 mg/m3 | Respirable particles. |
| Distillates (petroleum),<br>hydrotreated heavy<br>naphthenic (CAS<br>64742-52-5) | STEL | 10 mg/m3    | Mist.                 |
|  | TWA  | 5 mg/m3     | Mist.                 |
| Kaolin (CAS 1332-58-7)   | TWA  | 2 mg/m3     | Respirable.           |
| Titanium dioxide (CAS<br>13463-67-7)   | TWA  | 10 mg/m3    |                       |

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

| Components                                      | Type | Value       | Form                 |
|---|------|-------------|----------------------|
| Cellulose (CAS 9004-34-6)                       | TWA  | 3 mg/m3     | Respirable fraction. |
|   |      | 10 mg/m3    | Total dust.          |
| Crystalline silica (Quartz)<br>(CAS 14808-60-7) | TWA  | 0.025 mg/m3 | Respirable fraction. |
| Kaolin (CAS 1332-58-7)                          | TWA  | 2 mg/m3     | Respirable.          |
| Titanium dioxide (CAS<br>13463-67-7)            | TWA  | 3 mg/m3     | Respirable fraction. |
|   |      | 10 mg/m3    | Total dust.          |

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)**

| Components   | Type | Value       | Form                 |
|--|------|-------------|----------------------|
| Cellulose (CAS 9004-34-6)  | TWA  | 10 mg/m3    |                      |
| Crystalline silica (Quartz)<br>(CAS 14808-60-7)                                  | TWA  | 0.025 mg/m3 | Respirable fraction. |
| Distillates (petroleum),<br>hydrotreated heavy<br>naphthenic (CAS<br>64742-52-5) | TWA  | 5 mg/m3     | Inhalable fraction.  |
| Kaolin (CAS 1332-58-7)   | TWA  | 2 mg/m3     | Respirable fraction. |
| Titanium dioxide (CAS<br>13463-67-7)   | TWA  | 10 mg/m3    |                      |

**Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)**

| Components                                      | Type | Value     | Form                 |
|---|------|-----------|----------------------|
| Cellulose (CAS 9004-34-6)                       | TWA  | 10 mg/m3  |                      |
| Crystalline silica (Quartz)<br>(CAS 14808-60-7) | TWA  | 0.1 mg/m3 | Respirable.          |
| Kaolin (CAS 1332-58-7)                          | TWA  | 2 mg/m3   | Respirable fraction. |
| Titanium dioxide (CAS<br>13463-67-7)            | TWA  | 10 mg/m3  |                      |

## Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

| Components  | Type | Value                 | Form             |
|---|------|-----------------------|------------------|
| Cellulose (CAS 9004-34-6)   | TWA  | 10 mg/m <sup>3</sup>  | Total dust.      |
| Crystalline silica (Quartz) (CAS 14808-60-7)                            | TWA  | 0.1 mg/m <sup>3</sup> | Respirable dust. |
| Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | STEL | 10 mg/m <sup>3</sup>  | Mist.            |
|   | TWA  | 5 mg/m <sup>3</sup>   | Mist.            |
| Kaolin (CAS 1332-58-7)  | TWA  | 5 mg/m <sup>3</sup>   | Respirable dust. |
| Titanium dioxide (CAS 13463-67-7)                                       | TWA  | 10 mg/m <sup>3</sup>  | Total dust.      |

|  |   |
|--|---|
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).  |
| <b>Appropriate engineering controls</b>                                      | 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. |
| <b>Individual protection measures, such as personal protective equipment</b> |   |
| <b>Eye/face protection</b>   | Wear safety glasses with side shields (or goggles).   |
| <b>Skin protection</b>   |   |
| <b>Hand protection</b>   | Wear appropriate chemical resistant gloves.   |
| <b>Other</b>   | Wear suitable protective clothing.  |
| <b>Respiratory protection</b>  | In case of insufficient ventilation, wear suitable respiratory equipment.   |
| <b>Thermal hazards</b>   | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b>  | 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.   |

## 9. Physical and chemical properties

### Appearance

|   |                         |
|---|-------------------------|
| <b>Physical state</b>                               | Liquid.                 |
| <b>Form</b>   | Liquid paste.           |
| <b>Color</b>  | Blue.                   |
| <b>Odor</b>   | Odorless                |
| <b>Odor threshold</b>                               | Not available.          |
| <b>pH</b>   | Not available.          |
| <b>Melting point/freezing point</b>                 | Not available.          |
| <b>Initial boiling point and boiling range</b>      | Not available.          |
| <b>Flash point</b>                                  | > 212.0 °F (> 100.0 °C) |
| <b>Evaporation rate</b>                             | Not available.          |
| <b>Flammability (solid, gas)</b>                    | Not applicable.         |
| <b>Upper/lower flammability or explosive limits</b> |                         |
| <b>Flammability limit - lower (%)</b>               | Not available.          |
| <b>Flammability limit - upper (%)</b>               | Not available.          |
| <b>Explosive limit - lower (%)</b>                  | Not available.          |
| <b>Explosive limit - upper (%)</b>                  | Not available.          |
| <b>Vapor pressure</b>                               | Not available.          |
| <b>Vapor density</b>                                | < 1                     |
| <b>Relative density</b>                             | 1.2                     |

|  |                |
|--|----------------|
| <b>Solubility(ies)</b>                         |                |
| <b>Solubility (water)</b>                      | Insoluble      |
| <b>Partition coefficient (n-octanol/water)</b> | Not available. |
| <b>Auto-ignition temperature</b>               | Not available. |
| <b>Decomposition temperature</b>               | Not available. |
| <b>Viscosity</b>                               | 25000 cP       |
| <b>Other information</b>                       |                |
| <b>Explosive properties</b>                    | Not explosive. |
| <b>Oxidizing properties</b>                    | Not oxidizing. |
| <b>VOC (Weight %)</b>                          | 11 g/l         |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Prolonged inhalation may be harmful.                     |
| <b>Skin contact</b> | No adverse effects due to skin contact are expected.     |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation. |
| <b>Ingestion</b>    | Expected to be a low ingestion hazard.                   |

**Symptoms related to the physical, chemical and toxicological characteristics** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

### Information on toxicological effects

#### Acute toxicity

| Components                        | Species | Test Results       |
|-----------------------------------|---------|--------------------|
| Kaolin (CAS 1332-58-7)            |         |                    |
| <b>Acute</b>                      |         |                    |
| <i>Dermal</i>                     |         |                    |
| LD50                              | Rat     | > 5000 mg/kg       |
| <i>Inhalation</i>                 |         |                    |
| LC50                              | Rat     | > 2 mg/l, 4 Hours  |
| <i>Oral</i>                       |         |                    |
| LD50                              | Rat     | > 5000 mg/kg       |
| Titanium dioxide (CAS 13463-67-7) |         |                    |
| <b>Acute</b>                      |         |                    |
| <i>Inhalation</i>                 |         |                    |
| LC50                              | Rat     | 3.43 mg/l, 4 Hours |
| <i>Oral</i>                       |         |                    |
| LD50                              | Rat     | > 5000 mg/kg       |

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>         | Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. |
| <b>Serious eye damage/eye irritation</b> | Direct contact with eyes may cause temporary irritation.  |

## Respiratory or skin sensitization

### Canada - Alberta OELs: Irritant

|                                   |          |
|-----------------------------------|----------|
| Cellulose (CAS 9004-34-6)         | Irritant |
| Titanium dioxide (CAS 13463-67-7) | Irritant |

**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 fibres, 1997, Vol. 68, IARC, Lyon, France.)

### ACGIH Carcinogens

|   |  |
|---|--|
| Crystalline silica (Quartz) (CAS 14808-60-7)                            | A2 Suspected human carcinogen.             |
| Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | A4 Not classifiable as a human carcinogen. |
| Kaolin (CAS 1332-58-7)  | A4 Not classifiable as a human carcinogen. |
| Titanium dioxide (CAS 13463-67-7)                                       | A4 Not classifiable as a human carcinogen. |

### Canada - Alberta OELs: Carcinogen category

Crystalline silica (Quartz) (CAS 14808-60-7) Suspected human carcinogen.

### Canada - Manitoba OELs: carcinogenicity

|   |   |
|---|---|
| KAOLIN, RESPIRABLE FRACTION (CAS 1332-58-7)   | Not classifiable as a human carcinogen. |
| MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, POORLY AND MILDLY REFINED (CAS 64742-52-5)                             | Suspected human carcinogen.             |
| MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 64742-52-5) | Not classifiable as a human carcinogen. |
| SILICA, CRYSTALLINE-.ALPHA.-QUARTZ, RESPIRABLE FRACTION (CAS 14808-60-7)  | Suspected human carcinogen.             |
| TITANIUM DIOXIDE (CAS 13463-67-7)   | Not classifiable as a human carcinogen. |

### Canada - Quebec OELs: Carcinogen category

Crystalline silica (Quartz) (CAS 14808-60-7) Suspected carcinogenic effect in humans.

### IARC Monographs. Overall Evaluation of Carcinogenicity

|   |   |
|---|---|
| Crystalline silica (Quartz) (CAS 14808-60-7)                            | 1 Carcinogenic to humans.                           |
| Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | 3 Not classifiable as to carcinogenicity to humans. |
| Titanium dioxide (CAS 13463-67-7)                                       | 2B Possibly carcinogenic to humans.                 |

**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** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components             | Species            | Test Results        |
|------------------------|--------------------|---------------------|
| Kaolin (CAS 1332-58-7) |                    |                     |
| <b>Aquatic</b>         |                    |                     |
| <i>Acute</i>           |                    |                     |
| Crustacea              | LC50 Daphnia magna | > 1.1 g/l, 48 Hours |

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

**Bioaccumulative potential** No data available.

|                              |   |
|------------------------------|---|
| <b>Mobility in soil</b>      | No data available.  |
| <b>Other adverse effects</b> | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

### 13. Disposal considerations

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | 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.                         |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Waste from residues / unused products</b> | 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). |
| <b>Contaminated packaging</b>                | 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.       |

### 14. Transport information

#### TDG

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 established.

### 15. Regulatory information

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

#### Controlled Drugs and Substances Act

Not regulated.

#### Export Control List (CEPA 1999, Schedule 3)

Not listed.

#### Greenhouse Gases

Not listed.

#### Precursor Control Regulations

Not regulated.

#### International regulations

##### Stockholm Convention

Not applicable.

##### Rotterdam Convention

Not applicable.

##### Kyoto protocol

Not applicable.

##### Montreal Protocol

Not applicable.

##### Basel Convention

Not applicable.

#### International Inventories

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)         | Yes                    |
| Canada               | Domestic Substances List (DSL)                             | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                        | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC) | Yes                    |

| <b>Country(s) or region</b> | <b>Inventory name</b>  | <b>On inventory (yes/no)*</b> |
|-----------------------------|--|-------------------------------|
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                            |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                            |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                            |
| Korea                       | Existing Chemicals List (ECL)  | Yes                           |
| New Zealand                 | New Zealand Inventory  | Yes                           |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                           |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | No                            |

\*A "Yes" indicates this product complies 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).

## 16. Other Information

**Issue date** 10-December-2015

**Revision date** 24-May-2016

**Version #** 02

**Disclaimer** Oatey Co. 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.