



# SAFETY DATA SHEET

## 1. Identification

|                                                        |                                                                                                                                                                                                               |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product identifier                                     | Oatey PVC Heavy Duty Clear or Gray Cement                                                                                                                                                                     |
| Other means of identification                          |                                                                                                                                                                                                               |
| SDS number                                             | 1102E                                                                                                                                                                                                         |
| Synonyms                                               | Part Numbers: Clear 30850, 30863, 30876(TV), 30882, 31008(TV), 31011, 31950, 31951, 31952, 31953 Gray 30349, 31093, 31094, 31095, 31105, 31118, 31978, 31979, 31980, 31981, 32050, 32051, 32052, 32210, 32211 |
| Recommended use                                        | Joining PVC Pipes                                                                                                                                                                                             |
| Recommended restrictions                               | None known.                                                                                                                                                                                                   |
| Manufacturer/Importer/Supplier/Distributor information |                                                                                                                                                                                                               |
| Company Name                                           | Oatey Co.                                                                                                                                                                                                     |
| Address                                                | 4700 West 160th St.<br>Cleveland, OH 44135                                                                                                                                                                    |
| Telephone                                              | 216-267-7100                                                                                                                                                                                                  |
| E-mail                                                 | info@oatey.com                                                                                                                                                                                                |
| Transport Emergency                                    | Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)                                                                                                                                                       |
| Emergency First Aid                                    | 1-877-740-5015                                                                                                                                                                                                |
| Contact person                                         | MSDS Coordinator                                                                                                                                                                                              |

## 2. Hazard(s) identification

|                      |                                                 |                                         |
|----------------------|-------------------------------------------------|-----------------------------------------|
| Physical hazards     | Flammable liquids                               | Category 2                              |
| Health hazards       | Acute toxicity, oral                            | Category 4                              |
|                      | Skin corrosion/irritation                       | Category 2                              |
|                      | Serious eye damage/eye irritation               | Category 2A                             |
|                      | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
|                      | Specific target organ toxicity, single exposure | Category 3 narcotic effects             |
|                      | Aspiration hazard                               | Category 1                              |
| OSHA defined hazards | Not classified.                                 |                                         |

### Label elements



|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal word             | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Hazard statement        | Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.                                                                                                                                                                                                                                                                                                               |
| Precautionary statement |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Prevention              | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. |
| Response                | Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.                                                                                                                                                                                                                                                                              |
| Storage                 | Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Disposal                | Dispose of contents/container in accordance with local/regional/national/international regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**Hazard(s) not otherwise classified (HNOC)**

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May form explosive peroxides. Contains a chemical classified by the US EPA as a suspected possible carcinogen.

**Supplemental information**

Not applicable.

**3. Composition/information on ingredients****Mixtures**

| Chemical name             | CAS number  | %     |
|---------------------------|-------------|-------|
| Furan, Tetrahydro-        | 109-99-9    | 30-60 |
| 2-Propanone               | 67-64-1     | 10-30 |
| Cyclohexanone             | 108-94-1    | 10-30 |
| Polyvinyl chloride        | 9002-86-2   | 10-30 |
| Methyl ethyl ketone       | 78-93-3     | 5-10  |
| Colloidal silicon dioxide | 112945-52-5 | 1-5   |

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

**4. First-aid measures****Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact**

Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Eye contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis.

**Most important symptoms/effects, acute and delayed**

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and pain.

**Indication of immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information**

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

**5. Fire-fighting measures****Suitable extinguishing media**

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. 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.

**Fire fighting equipment/instructions**

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

**Specific methods**

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

**General fire hazards**

Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: 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. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### U.S. - OSHA

| Components                                  | Type | Value     | Form         |
|---------------------------------------------|------|-----------|--------------|
| Colloidal silicon dioxide (CAS 112945-52-5) | TWA  | 0.8 mg/m3 | Unspecified. |
|                                             |      | 20 mppcf  | Unspecified. |

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

| Components                         | Type | Value |
|------------------------------------|------|-------|
| Polyvinyl chloride (CAS 9002-86-2) | STEL | 5 ppm |
|                                    | TWA  | 1 ppm |

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                        | Type | Value      | Form |
|-----------------------------------|------|------------|------|
| 2-Propanone (CAS 67-64-1)         | PEL  | 2400 mg/m3 |      |
|                                   |      | 1000 ppm   |      |
| Cyclohexanone (CAS 108-94-1)      | PEL  | 200 mg/m3  |      |
|                                   |      | 50 ppm     |      |
| Furan, Tetrahydro- (CAS 109-99-9) | PEL  | 590 mg/m3  |      |
|                                   |      | 200 ppm    |      |

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components                         | Type | Value                          | Form                                |
|------------------------------------|------|--------------------------------|-------------------------------------|
| Methyl ethyl ketone (CAS 78-93-3)  | PEL  | 590 mg/m3                      |                                     |
| Polyvinyl chloride (CAS 9002-86-2) | PEL  | 200 ppm<br>5 mg/m3<br>15 mg/m3 | Respirable fraction.<br>Total dust. |

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

| Components                                  | Type | Value                 |
|---------------------------------------------|------|-----------------------|
| Colloidal silicon dioxide (CAS 112945-52-5) | TWA  | 0.8 mg/m3<br>20 mppcf |

**US. ACGIH Threshold Limit Values**

| Components                         | Type        | Value              | Form                 |
|------------------------------------|-------------|--------------------|----------------------|
| 2-Propanone (CAS 67-64-1)          | STEL<br>TWA | 750 ppm<br>500 ppm |                      |
| Cyclohexanone (CAS 108-94-1)       | STEL<br>TWA | 50 ppm<br>20 ppm   |                      |
| Furan, Tetrahydro- (CAS 109-99-9)  | STEL<br>TWA | 100 ppm<br>50 ppm  |                      |
| Methyl ethyl ketone (CAS 78-93-3)  | STEL<br>TWA | 300 ppm<br>200 ppm |                      |
| Polyvinyl chloride (CAS 9002-86-2) | TWA         | 1 mg/m3            | Respirable fraction. |

**U.S. - NIOSH**

| Components                                  | Type | Value   | Form         |
|---------------------------------------------|------|---------|--------------|
| Colloidal silicon dioxide (CAS 112945-52-5) | REL  | 6 mg/m3 | Unspecified. |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                                  | Type        | Value                                        |
|---------------------------------------------|-------------|----------------------------------------------|
| 2-Propanone (CAS 67-64-1)                   | TWA         | 590 mg/m3<br>250 ppm                         |
| Colloidal silicon dioxide (CAS 112945-52-5) | TWA         | 6 mg/m3                                      |
| Cyclohexanone (CAS 108-94-1)                | TWA         | 100 mg/m3<br>25 ppm                          |
| Furan, Tetrahydro- (CAS 109-99-9)           | STEL<br>TWA | 735 mg/m3<br>250 ppm<br>590 mg/m3<br>200 ppm |
| Methyl ethyl ketone (CAS 78-93-3)           | STEL<br>TWA | 885 mg/m3<br>300 ppm<br>590 mg/m3<br>200 ppm |

## Biological limit values

### ACGIH Biological Exposure Indices

| Components                        | Value   | Determinant                          | Specimen | Sampling Time |
|-----------------------------------|---------|--------------------------------------|----------|---------------|
| 2-Propanone (CAS 67-64-1)         | 50 mg/l | Acetone                              | Urine    | *             |
| Cyclohexanone (CAS 108-94-1)      | 80 mg/l | 1,2-Cyclohexanediol, with hydrolysis | Urine    | *             |
|                                   | 8 mg/l  | Cyclohexanol, with hydrolysis        | Urine    | *             |
| Furan, Tetrahydro- (CAS 109-99-9) | 2 mg/l  | Tetrahydrofuran                      | Urine    | *             |
| Methyl ethyl ketone (CAS 78-93-3) | 2 mg/l  | MEK                                  | Urine    | *             |

\* - For sampling details, please see the source document.

### Exposure guidelines

#### US - California OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

#### US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1)

Skin designation applies.

#### US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

#### US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

Furan, Tetrahydro- (CAS 109-99-9)

Can be absorbed through the skin.

#### US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

### Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. 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. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves.

##### Other

Wear appropriate chemical resistant clothing.

#### Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

When using, do not eat, drink or smoke. Wash hands after handling and before eating.

## 9. Physical and chemical properties

### Appearance

Opaque or Translucent.

### Physical state

Liquid.

### Form

Liquid.

### Color

Gray or Clear.

### Odor

Solvent.

### Odor threshold

Not available.

### pH

Not available.

### Melting point/freezing point

Not available.

### Initial boiling point and boiling range

151 °F (66.11 °C)

### Flash point

14.0 - 23.0 °F (-10.0 - -5.0 °C)

### Evaporation rate

5.5 - 8

|                                                     |                            |
|-----------------------------------------------------|----------------------------|
| <b>Flammability (solid, gas)</b>                    | Not available.             |
| <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>                               | 145 mm Hg @ 20 C           |
| <b>Vapor density</b>                                | 2.5                        |
| <b>Relative density</b>                             | 0.88 - 0.92                |
| <b>Solubility(ies)</b>                              |                            |
| <b>Solubility (water)</b>                           | Negligible                 |
| <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>                                    | 1200 - 2500 cP             |
| <b>Other information</b>                            |                            |
| <b>Bulk density</b>                                 | 7.5 lb/gal                 |
| <b>VOC (Weight %)</b>                               | <510 g/l SQACMD 1168/M316A |

## 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>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.                                                                        |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.                                                                                                 |

## 11. Toxicological information

### Information on likely routes of exposure

|                                                                                     |                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                                                   | May be fatal if swallowed and enters airways. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful. May cause irritation to the respiratory system. |
| <b>Skin contact</b>                                                                 | Causes skin irritation.                                                                                                                                                                                                 |
| <b>Eye contact</b>                                                                  | Causes serious eye irritation.                                                                                                                                                                                          |
| <b>Ingestion</b>                                                                    | May be fatal if swallowed and enters airways. Harmful if swallowed.                                                                                                                                                     |
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.        |

### Information on toxicological effects

|                       |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| <b>Acute toxicity</b> | May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation. |
|-----------------------|---------------------------------------------------------------------------------------------------|

| Components                   | Species | Test Results      |
|------------------------------|---------|-------------------|
| Cyclohexanone (CAS 108-94-1) |         |                   |
| <b>Acute</b>                 |         |                   |
| <i>Dermal</i>                |         |                   |
| LD50                         | Rabbit  | 948 mg/kg         |
| <i>Inhalation</i>            |         |                   |
| LC50                         | Rat     | 8000 ppm, 4 hours |

| Components   | Species | Test Results |
|--------------|---------|--------------|
| Oral<br>LD50 | Rat     | 1540 mg/kg   |

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

#### Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**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** Suspected of causing cancer. In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following exposure to THF by all routes of exposure. This product contains polyvinyl chloride (PVC) that is not a fabricated product, and is therefore, defined and regulated as a toxic and hazardous substance under 29 C.F.R. § 1910.1017 due to the presumed presence of residual vinyl chloride monomer. The concentrations of residual vinyl chloride calculated to be contained in this product are well below the threshold for classification in accordance with 29 C.F.R. § 1910.1200.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Colloidal silicon dioxide (CAS 112945-52-5) 3 Not classifiable as to carcinogenicity to humans.

Cyclohexanone (CAS 108-94-1) 3 Not classifiable as to carcinogenicity to humans.

Polyvinyl chloride (CAS 9002-86-2) 3 Not classifiable as to carcinogenicity to humans.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2) Cancer

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

**Specific target organ toxicity - single exposure** Respiratory tract irritation. Narcotic effects.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Chronic effects** Prolonged inhalation may be harmful.

## 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                                                  |
|------------------------------|---------|---------------------------------------------------------------|
| Cyclohexanone (CAS 108-94-1) |         |                                                               |
| <b>Aquatic</b>               |         |                                                               |
| Fish                         | LC50    | Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours |

\* Estimates for product may be based on additional component data not shown.

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

**Bioaccumulative potential** No data available.

#### Partition coefficient n-octanol / water (log Kow)

2-Propanone (CAS 67-64-1) -0.24

Cyclohexanone (CAS 108-94-1) 0.81

Furan, Tetrahydro- (CAS 109-99-9) 0.46

Methyl ethyl ketone (CAS 78-93-3) 0.29

**Mobility in soil** 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.                                                                                                                                                                                                                          |
| <b>13. Disposal considerations</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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>                | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.                                                                                                                                                                                                       |

## 14. Transport information

### DOT

|                                     |                                                                         |
|-------------------------------------|-------------------------------------------------------------------------|
| <b>UN number</b>                    | UN1133                                                                  |
| <b>UN proper shipping name</b>      | Adhesives                                                               |
| <b>Transport hazard class(es)</b>   |                                                                         |
| <b>Class</b>                        | 3                                                                       |
| <b>Subsidiary risk</b>              | -                                                                       |
| <b>Label(s)</b>                     | 3                                                                       |
| <b>Packing group</b>                | II                                                                      |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Special provisions</b>           | T11, TP1, TP8, TP27                                                     |
| <b>Packaging exceptions</b>         | 150                                                                     |
| <b>Packaging non bulk</b>           | 201                                                                     |
| <b>Packaging bulk</b>               | 243                                                                     |

### IATA

|                                     |                                                                         |
|-------------------------------------|-------------------------------------------------------------------------|
| <b>UN number</b>                    | UN1133                                                                  |
| <b>UN proper shipping name</b>      | Adhesives                                                               |
| <b>Transport hazard class(es)</b>   |                                                                         |
| <b>Class</b>                        | 3                                                                       |
| <b>Subsidiary risk</b>              | -                                                                       |
| <b>Packing group</b>                | II                                                                      |
| <b>Environmental hazards</b>        | No.                                                                     |
| <b>ERG Code</b>                     | 3L                                                                      |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |

### IMDG

|                                     |                                                                         |
|-------------------------------------|-------------------------------------------------------------------------|
| <b>UN number</b>                    | UN1133                                                                  |
| <b>UN proper shipping name</b>      | ADHESIVES                                                               |
| <b>Transport hazard class(es)</b>   |                                                                         |
| <b>Class</b>                        | 3                                                                       |
| <b>Subsidiary risk</b>              | -                                                                       |
| <b>Packing group</b>                | II                                                                      |
| <b>Environmental hazards</b>        |                                                                         |
| <b>Marine pollutant</b>             | No.                                                                     |
| <b>EmS</b>                          | F-E, S-D                                                                |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

## 15. Regulatory information

### US federal regulations

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

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

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2)

Cancer  
Central nervous system  
Liver  
Blood  
Flammability

#### CERCLA Hazardous Substance List (40 CFR 302.4)

2-Propanone (CAS 67-64-1)

LISTED

Cyclohexanone (CAS 108-94-1)

LISTED

Furan, Tetrahydro- (CAS 109-99-9)

LISTED

Methyl ethyl ketone (CAS 78-93-3)

LISTED

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous chemical

No

#### 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 (SDWA)

Not regulated.

#### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

2-Propanone (CAS 67-64-1)

6532

Methyl ethyl ketone (CAS 78-93-3)

6714

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

2-Propanone (CAS 67-64-1)

35 %WV

Methyl ethyl ketone (CAS 78-93-3)

35 %WV

#### DEA Exempt Chemical Mixtures Code Number

2-Propanone (CAS 67-64-1)

6532

Methyl ethyl ketone (CAS 78-93-3)

6714

### US state regulations

#### US. Massachusetts RTK - Substance List

2-Propanone (CAS 67-64-1)

Colloidal silicon dioxide (CAS 112945-52-5)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

#### US. New Jersey Worker and Community Right-to-Know Act

2-Propanone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

Polyvinyl chloride (CAS 9002-86-2)

#### US. Pennsylvania Worker and Community Right-to-Know Law

2-Propanone (CAS 67-64-1)

Colloidal silicon dioxide (CAS 112945-52-5)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

#### US. Rhode Island RTK

2-Propanone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

#### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. This product contains trace amounts of chemicals known to the state of California to cause cancer. Under normal use conditions, exposure to these chemicals at levels above the State of California "No significant Risk Level" (NSRL) are unlikely. The use of proper personal protective equipment (PPE) and ventilation guidelines noted in Section 8 will minimize exposure levels to these chemicals.

#### 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                    |
| 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)               | Yes                    |
| 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                          | Yes                    |

\*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, including date of preparation or last revision

|               |                                                                                                          |
|---------------|----------------------------------------------------------------------------------------------------------|
| Issue date    | 04-August-2014                                                                                           |
| Revision date | 15-December-2014                                                                                         |
| Version #     | 02                                                                                                       |
| HMIS® ratings | Health: 2<br>Flammability: 3<br>Physical hazard: 0                                                       |
| Disclaimer    | The information in the sheet was written based on the best knowledge and experience currently available. |