

# SAFETY DATA SHEET

## 1. Identification

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| <b>Product identifier</b>            | <b>Carlton All Weather QuickSet Cement</b>        |
| <b>Other means of identification</b> |                                                   |
| <b>SDS number</b>                    | SDS - 00005                                       |
| <b>Product code</b>                  | VC9981P, VC9982, VC9983, VC9983C, VC9984, VC9985C |
| <b>Recommended use</b>               | Joining PVC Pipes                                 |
| <b>Recommended restrictions</b>      | None known.                                       |

### Manufacturer/Importer/Supplier/Distributor information

|                     |                                                 |
|---------------------|-------------------------------------------------|
| <b>Company name</b> | ABB Installation Products Inc.                  |
| <b>Address</b>      | 860 Ridge Lake Blvd.<br>Memphis, TN 38120<br>US |
| <b>Telephone</b>    | 901-252-5000 ext.8324                           |
| <b>E-mail</b>       | Not available.                                  |

**Emergency phone number** CHEMTREC - 24 HOURS: +1 703-741-5970

## 1. Hazard(s) identification

|                             |                                                 |                                         |
|-----------------------------|-------------------------------------------------|-----------------------------------------|
| <b>Physical hazards</b>     | Flammable liquids                               | Category 2                              |
| <b>Health hazards</b>       | Skin corrosion/irritation                       | Category 2                              |
|                             | Serious eye damage/eye irritation               | Category 1                              |
|                             | Carcinogenicity                                 | Category 2                              |
|                             | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
|                             | Specific target organ toxicity, single exposure | Category 3 narcotic effects             |
| <b>OSHA defined hazards</b> | Not classified.                                 |                                         |

### Label elements



**Signal word** Danger

**Hazard statement** Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer.

### Precautionary statement

#### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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/vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

If exposed or concerned: Get medical advice/attention. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. 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)** None known.

**Supplemental information** None.

## 2. Composition/information on ingredients

### Mixtures

| Chemical name                                          | CAS number  | %       |
|--------------------------------------------------------|-------------|---------|
| Tetrahydrofuran                                        | 109-99-9    | 30 - 55 |
| Acetone                                                | 67-64-1     | 10 - 25 |
| Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; | 9002-86-2   | 12 - 20 |
| Cyclohexanone                                          | 108-94-1    | 10 - 20 |
| Silica, amorphous, fumed                               | 112945-52-5 | 1 - 5   |

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 3. First-aid measures

|                                                                               |                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                                             | 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.                                                                                                                                                                                                         |
| <b>Skin contact</b>                                                           | Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.                                                                                                                                                                           |
| <b>Eye contact</b>                                                            | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.                                                                                                                                                                               |
| <b>Ingestion</b>                                                              | Rinse mouth. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Get medical attention if symptoms occur.                                                                                                                                                                                                              |
| <b>Most important symptoms/effects, acute and delayed</b>                     | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects. |
| <b>Indication of immediate medical attention and special treatment needed</b> | 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. Keep victim under observation. Symptoms may be delayed.                                               |
| <b>General information</b>                                                    | Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.                 |

## 4. Fire-fighting measures

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                                  | Water fog. Alcohol resistant foam. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <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>                    | Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. 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>                          | In case of fire and/or explosion do not breathe fumes. 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>                                          | Highly flammable liquid and vapor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## 5. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. 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

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

## 6. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. 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 get this material in contact with eyes. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Avoid contact with skin and clothing. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

### 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. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Periodically test for peroxide formation on long-term storage.

## 7. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

| Components                                                             | Type | Value |
|------------------------------------------------------------------------|------|-------|
| Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (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                  |
|--------------------------------|------|------------------------|
| Acetone (CAS 67-64-1)          | PEL  | 2400 mg/m3<br>1000 ppm |
| Cyclohexanone (CAS 108-94-1)   | PEL  | 200 mg/m3<br>50 ppm    |
| Tetrahydrofuran (CAS 109-99-9) | PEL  | 590 mg/m3<br>200 ppm   |

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

| Components                                                             | Type | Value                                       | Form                                                                       |
|------------------------------------------------------------------------|------|---------------------------------------------|----------------------------------------------------------------------------|
| Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2) | TWA  | 5 mg/m3<br>15 mg/m3<br>50 mppcf<br>15 mppcf | Respirable fraction.<br>Total dust.<br>Total dust.<br>Respirable fraction. |
| Silica, amorphous, fumed (CAS 112945-52-5)                             | TWA  | 0.8 mg/m3<br>20 mppcf                       |                                                                            |

**US. ACGIH Threshold Limit Values**

| Components                                                             | Type        | Value              | Form                  |
|------------------------------------------------------------------------|-------------|--------------------|-----------------------|
| Acetone (CAS 67-64-1)                                                  | STEL<br>TWA | 500 ppm<br>250 ppm |                       |
| Cyclohexanone (CAS 108-94-1)                                           | STEL<br>TWA | 50 ppm<br>20 ppm   |                       |
| Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2) | TWA         | 3 mg/m3            | Respirable particles. |
| Tetrahydrofuran (CAS 109-99-9)                                         | STEL<br>TWA | 100 ppm<br>50 ppm  |                       |

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

| Components                                 | Type        | Value                                        |
|--------------------------------------------|-------------|----------------------------------------------|
| Acetone (CAS 67-64-1)                      | TWA         | 590 mg/m3<br>250 ppm                         |
| Cyclohexanone (CAS 108-94-1)               | TWA         | 100 mg/m3<br>25 ppm                          |
| Silica, amorphous, fumed (CAS 112945-52-5) | TWA         | 6 mg/m3                                      |
| Tetrahydrofuran (CAS 109-99-9)             | STEL<br>TWA | 735 mg/m3<br>250 ppm<br>590 mg/m3<br>200 ppm |

## Biological limit values

### ACGIH Biological Exposure Indices

| Components                     | Value   | Determinant                          | Specimen | Sampling Time |
|--------------------------------|---------|--------------------------------------|----------|---------------|
| Acetone (CAS 67-64-1)          | 25 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    | *             |
| Tetrahydrofuran (CAS 109-99-9) | 2 mg/l  | Tetrahydrofuran                      | 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.

Tetrahydrofuran (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 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. Provide eyewash station and safety shower.

## 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. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

### Skin protection

#### Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

### Respiratory protection

Chemical respirator with organic vapor cartridge.

### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

## General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. 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.

## 8. Physical and chemical properties

### Appearance

#### Physical state

Liquid.

#### Form

Liquid.

#### Color

Clear.

#### Odor

Ether-like.

#### Odor threshold

Not available.

#### pH

Not available.

#### Melting point/freezing point

Not available.

#### Initial boiling point and boiling range

150.8 °F (66 °C)

#### Flash point

14.0 - 23.0 °F (-10.0 - -5.0 °C)

|                                                     |                       |
|-----------------------------------------------------|-----------------------|
| Evaporation rate                                    | 5.5 - 8 (BuAc = 1)    |
| Flammability (solid, gas)                           | Not applicable.       |
| <b>Upper/lower flammability or explosive limits</b> |                       |
| Flammability limit - lower (%)                      | 1.8                   |
| Flammability limit - upper (%)                      | 11.8                  |
| Explosive limit - lower (%)                         | Not available.        |
| Explosive limit - upper (%)                         | Not available.        |
| Vapor pressure                                      | 145 mm Hg (20°C/68°F) |
| Vapor density                                       | 2.5                   |
| Relative density                                    | 0.91 - 0.95           |
| Relative density temperature                        | 68 °F (20 °C)         |
| <b>Solubility(ies)</b>                              |                       |
| Solubility (water)                                  | Negligible in water.  |
| Partition coefficient (n-octanol/water)             | Not available.        |
| Auto-ignition temperature                           | Not available.        |
| Decomposition temperature                           | Not available.        |
| Viscosity                                           | Not available.        |
| <b>Other information</b>                            |                       |
| Explosive properties                                | Not explosive.        |
| Oxidizing properties                                | Not oxidizing.        |
| VOC                                                 | < 510 g/l             |

## 9. Stability and reactivity

|                                    |                                                                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | The product is stable and non-reactive under normal conditions of use, storage and transport.                                                                         |
| Chemical stability                 | Material is stable under normal conditions.                                                                                                                           |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use.                                                                                                           |
| Conditions to avoid                | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials             | Acids. Strong oxidizing agents. Chlorine. Fluorine.                                                                                                                   |
| Hazardous decomposition products   | Carbon oxides. Hydrogen chloride.                                                                                                                                     |

## 10. Toxicological information

### Information on likely routes of exposure

|                                                                              |                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation                                                                   | May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause irritation to the respiratory system. Prolonged inhalation may be harmful.                                                                                                                                                        |
| Skin contact                                                                 | Causes skin irritation. The product contains components which may penetrate skin.                                                                                                                                                                                                                           |
| Eye contact                                                                  | Causes serious eye damage.                                                                                                                                                                                                                                                                                  |
| Ingestion                                                                    | May be harmful if swallowed.                                                                                                                                                                                                                                                                                |
| Symptoms related to the physical, chemical and toxicological characteristics | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. |

### Information on toxicological effects

|                |                              |
|----------------|------------------------------|
| Acute toxicity | May be harmful if swallowed. |
|----------------|------------------------------|

| Components            | Species | Test Results            |
|-----------------------|---------|-------------------------|
| Acetone (CAS 67-64-1) |         |                         |
| <b>Acute</b>          |         |                         |
| <b>Dermal</b>         |         |                         |
| LD50                  | Rabbit  | > 15700 mg/kg, 24 Hours |

| Components                                                             | Species                                                                                                                                                                                                                                                   | Test Results       |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>Inhalation</b>                                                      |                                                                                                                                                                                                                                                           |                    |
| <i>Vapor</i>                                                           |                                                                                                                                                                                                                                                           |                    |
| LC50                                                                   | Rat                                                                                                                                                                                                                                                       | 76 mg/l, 4 Hours   |
| <b>Oral</b>                                                            |                                                                                                                                                                                                                                                           |                    |
| LD50                                                                   | Rat                                                                                                                                                                                                                                                       | 5800 mg/kg         |
| Cyclohexanone (CAS 108-94-1)                                           |                                                                                                                                                                                                                                                           |                    |
| <b><u>Acute</u></b>                                                    |                                                                                                                                                                                                                                                           |                    |
| <b>Dermal</b>                                                          |                                                                                                                                                                                                                                                           |                    |
| LD50                                                                   | Rabbit                                                                                                                                                                                                                                                    | 948 mg/kg          |
| <b>Oral</b>                                                            |                                                                                                                                                                                                                                                           |                    |
| LD50                                                                   | Rat                                                                                                                                                                                                                                                       | 1296 mg/kg         |
| Tetrahydrofuran (CAS 109-99-9)                                         |                                                                                                                                                                                                                                                           |                    |
| <b><u>Acute</u></b>                                                    |                                                                                                                                                                                                                                                           |                    |
| <b>Inhalation</b>                                                      |                                                                                                                                                                                                                                                           |                    |
| LC50                                                                   | Rat                                                                                                                                                                                                                                                       | 53.9 mg/l, 4 Hours |
| <b>Oral</b>                                                            |                                                                                                                                                                                                                                                           |                    |
| LD50                                                                   | Rat                                                                                                                                                                                                                                                       | 1650 mg/kg         |
| <b>Skin corrosion/irritation</b>                                       | Causes skin irritation.                                                                                                                                                                                                                                   |                    |
| <b>Serious eye damage/eye irritation</b>                               | Causes serious eye damage.                                                                                                                                                                                                                                |                    |
| <b>Respiratory or skin sensitization</b>                               |                                                                                                                                                                                                                                                           |                    |
| <b>Respiratory sensitization</b>                                       | Not a respiratory sensitizer.                                                                                                                                                                                                                             |                    |
| <b>Skin sensitization</b>                                              | This product is not expected to cause skin sensitization.                                                                                                                                                                                                 |                    |
| <b>Germ cell mutagenicity</b>                                          | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.                                                                                                                                          |                    |
| <b>Carcinogenicity</b>                                                 | Suspected of causing cancer.                                                                                                                                                                                                                              |                    |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>          |                                                                                                                                                                                                                                                           |                    |
| Cyclohexanone (CAS 108-94-1)                                           | 3 Not classifiable as to carcinogenicity to humans.                                                                                                                                                                                                       |                    |
| Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2) | 3 Not classifiable as to carcinogenicity to humans.                                                                                                                                                                                                       |                    |
| Silica, amorphous, fumed (CAS 112945-52-5)                             | 3 Not classifiable as to carcinogenicity to humans.                                                                                                                                                                                                       |                    |
| Tetrahydrofuran (CAS 109-99-9)                                         | 2B Possibly carcinogenic to humans.                                                                                                                                                                                                                       |                    |
| <b>NTP Report on Carcinogens</b>                                       |                                                                                                                                                                                                                                                           |                    |
| Not listed.                                                            |                                                                                                                                                                                                                                                           |                    |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b>  |                                                                                                                                                                                                                                                           |                    |
| Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2) | Cancer                                                                                                                                                                                                                                                    |                    |
| <b>Reproductive toxicity</b>                                           | Cyclohexanone have been shown to cause embryofetal toxicity and birth defects in laboratory animals. Acetone and tetrahydrofuran has been found to cause adverse developmental effects only when exposure levels cause other toxic effects to the mother. |                    |
| <b>Specific target organ toxicity - single exposure</b>                | May cause respiratory irritation. May cause drowsiness and dizziness.                                                                                                                                                                                     |                    |
| <b>Specific target organ toxicity - repeated exposure</b>              | Not classified.                                                                                                                                                                                                                                           |                    |
| <b>Aspiration hazard</b>                                               | Not an aspiration hazard.                                                                                                                                                                                                                                 |                    |
| <b>Chronic effects</b>                                                 | Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause central nervous system effects.                                                                                                                              |                    |
| <b>11. Ecological information</b>                                      |                                                                                                                                                                                                                                                           |                    |
| <b>Ecotoxicity</b>                                                     | 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        |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------|---------------------|
| Acetone (CAS 67-64-1)                             |                                                                                                      |                         |                     |
| Aquatic                                           |                                                                                                      |                         |                     |
| Acute                                             |                                                                                                      |                         |                     |
| Crustacea                                         | LC50                                                                                                 | Daphnia pulex           | 8800 mg/l, 48 Hours |
| Fish                                              | LC50                                                                                                 | Pimephales promelas     | 7163 mg/l, 96 Hours |
| Chronic                                           |                                                                                                      |                         |                     |
| Crustacea                                         | NOEC                                                                                                 | Daphnia magna           | > 79 mg/l, 21 days  |
| Cyclohexanone (CAS 108-94-1)                      |                                                                                                      |                         |                     |
| Aquatic                                           |                                                                                                      |                         |                     |
| Acute                                             |                                                                                                      |                         |                     |
| Fish                                              | LC50                                                                                                 | Pimephales promelas     | 527 mg/l, 96 Hours  |
| Tetrahydrofuran (CAS 109-99-9)                    |                                                                                                      |                         |                     |
| Aquatic                                           |                                                                                                      |                         |                     |
| Acute                                             |                                                                                                      |                         |                     |
| Crustacea                                         | LC50                                                                                                 | Daphnia magna           | 5930 mg/l, 24 Hours |
| Fish                                              | LC50                                                                                                 | Pimephales promelas     | 2160 mg/l, 96 Hours |
| Chronic                                           |                                                                                                      |                         |                     |
| Algae                                             | NOEC                                                                                                 | Scenedesmus quadricauda | 3700 mg/l, 8 days   |
| Persistence and degradability                     | No data is available on the degradability of this product.                                           |                         |                     |
| Bioaccumulative potential                         | Not expected to bioaccumulate on the basis of the low octanol-water partition coefficient.           |                         |                     |
| Partition coefficient n-octanol / water (log Kow) |                                                                                                      |                         |                     |
| Acetone (CAS 67-64-1)                             | -0.24                                                                                                |                         |                     |
| Cyclohexanone (CAS 108-94-1)                      | 0.81                                                                                                 |                         |                     |
| Tetrahydrofuran (CAS 109-99-9)                    | 0.46                                                                                                 |                         |                     |
| Mobility in soil                                  | Expected to be highly mobile in soil.                                                                |                         |                     |
| Other adverse effects                             | The product contains volatile organic compounds which have a photochemical ozone creation potential. |                         |                     |

## 12. Disposal considerations

|                                              |                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. 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>                  | D001: Waste Flammable material with a flash point <140 F<br>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.                                                                                                                                                                           |

## 13. 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>Environmental hazards</b>        |                                                                         |
| <b>Marine pollutant</b>             | No                                                                      |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |



|                             |                             |
|-----------------------------|-----------------------------|
| <b>Special provisions</b>   | 149, B52, IB2, T4, TP1, TP8 |
| <b>Packaging exceptions</b> | 150                         |
| <b>Packaging non bulk</b>   | 173                         |
| <b>Packaging bulk</b>       | 242                         |

#### 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>Label(s)</b>                     | 3                                                                       |
| <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>Label(s)</b>                     | 3                                                                       |
| <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 established.

## 14. Regulatory information

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

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

Not regulated.

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

|                                |         |
|--------------------------------|---------|
| Acetone (CAS 67-64-1)          | Listed. |
| Cyclohexanone (CAS 108-94-1)   | Listed. |
| Tetrahydrofuran (CAS 109-99-9) | Listed. |

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

|                                                   |                        |
|---------------------------------------------------|------------------------|
| Ethene, chloro-, homopolymer, Polyvinyl chloride; | Cancer                 |
| PVC; (CAS 9002-86-2)                              |                        |
|                                                   | Central nervous system |
|                                                   | Liver                  |
|                                                   | Blood                  |
|                                                   | Flammability           |

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

##### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** Yes

|                                     |                                                              |
|-------------------------------------|--------------------------------------------------------------|
| <b>Classified hazard categories</b> | Flammable (gases, aerosols, liquids, or solids)              |
|                                     | Skin corrosion or irritation                                 |
|                                     | Serious eye damage or eye irritation                         |
|                                     | Carcinogenicity                                              |
|                                     | Specific target organ toxicity (single or repeated exposure) |

**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)** Contains component(s) regulated under the Safe Drinking Water Act.**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Acetone (CAS 67-64-1) 6532

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

Acetone (CAS 67-64-1) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

Acetone (CAS 67-64-1) 6532

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Acetone (CAS 67-64-1) Low priority

Cyclohexanone (CAS 108-94-1) Low priority

**US state regulations****US. Massachusetts RTK - Substance List**

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Silica, amorphous, fumed (CAS 112945-52-5)

Tetrahydrofuran (CAS 109-99-9)

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

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)

Tetrahydrofuran (CAS 109-99-9)

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

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Silica, amorphous, fumed (CAS 112945-52-5)

Tetrahydrofuran (CAS 109-99-9)

**US. Rhode Island RTK**

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)

Tetrahydrofuran (CAS 109-99-9)

**California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

Acetone (CAS 67-64-1)

Tetrahydrofuran (CAS 109-99-9)

**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                     |

| Country(s) or region        | Inventory name                                                    | On inventory (yes/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                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                        | 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).

## 15. Other information, including date of preparation or last revision

**Issue date** 08-December-2015

**Revision date** 05-November-2018

**Version** B

**HMIS® ratings** Health: 3\*  
Flammability: 3  
Physical hazard: 0

**NFPA ratings**



### Disclaimer

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