

## SAFETY DATA SHEET

### SC3001 250G RESIN PACK PART A

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

#### 1. Identification

##### Product identifier

**Product name** SC3001 250G RESIN PACK PART A

**Product number** SC3001A, ESC3001K25K, ESC3001RP250G, ESC3001K5K, ZE

##### Recommended use of the chemical and restrictions on use

**Application** Resin.

**Uses advised against** No specific uses advised against are identified.

##### Details of the supplier of the safety data sheet

**Supplier** HK WENTWORTH-AMERICA  
HK WENTWORTH-AMERICA  
PO BOX 271347  
FLOWER MOUND  
TEXAS 75027  
USA  
info@hkw.co.uk

##### Emergency telephone number

**Emergency telephone** +1 202 464 2554 (USA only)  
+44 1235 239670

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

EC No 1272/2008

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Not Classified

##### Label elements

**Hazard statements** NC Not Classified

##### Other hazards

This product does not contain any substances classified as PBT or vPvB.

#### 3. Composition/information on ingredients

##### Mixtures

**Composition comments** No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

#### 4. First-aid measures

##### Description of first aid measures

## SC3001 250G RESIN PACK PART A

|                                   |   |
|-----------------------------------|---|
| <b>General information</b>        | Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.  |
| <b>Inhalation</b>                 | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.  |
| <b>Ingestion</b>                  | Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. |
| <b>Skin Contact</b>               | Remove affected person from source of contamination. Rinse immediately with plenty of water.  |
| <b>Eye contact</b>                | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.   |
| <b>Protection of first aiders</b> | First aid personnel should wear appropriate protective equipment during any rescue.   |

### Most important symptoms and effects, both acute and delayed

|                            |  |
|----------------------------|--|
| <b>General information</b> | See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| <b>Inhalation</b>          | Prolonged inhalation of high concentrations may damage respiratory system.   |
| <b>Ingestion</b>           | Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.                        |
| <b>Skin contact</b>        | Prolonged contact may cause dryness of the skin.   |
| <b>Eye contact</b>         | May cause temporary eye irritation.  |

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

|                             |                                |
|-----------------------------|--------------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically.         |
| <b>Specific treatments</b>  | No special treatment required. |

## 5. Fire-fighting measures

### Extinguishing media

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire.   |

### Special hazards arising from the substance or mixture

|                                      |  |
|--------------------------------------|--|
| <b>Specific hazards</b>              | Containers can burst violently or explode when heated, due to excessive pressure build-up.                     |
| <b>Hazardous combustion products</b> | Thermal decomposition or combustion products may include the following substances:<br>Harmful gases or vapors. |

### Advice for firefighters

|   |   |
|---|---|
| <b>Protective actions during firefighting</b> | Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. |
|---|---|

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**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage.

#### Environmental precautions

**Environmental precautions** Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

#### Methods and material for containment and cleaning up

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Approach the spillage from upwind. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labeled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Reference to other sections** For personal protection, see Section 8.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in accordance with local regulations.

**Storage class** Unspecified storage.

#### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### 8. Exposure Controls/personal protection

#### Exposure controls

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### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. The following protection should be worn: Chemical splash goggles.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

#### Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

#### Hygiene measures

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

#### Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.

#### Environmental exposure controls

Not regarded as dangerous for the environment.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

|                   |                              |
|-------------------|------------------------------|
| Appearance        | Liquid.                      |
| Color             | Clear liquid.                |
| Relative density  | 1.05 @ °C                    |
| Viscosity         | 2000 mPa s @ 23°C (73.4 F)°C |
| Other information | None.                        |

## 10. Stability and reactivity

#### Reactivity

There are no known reactivity hazards associated with this product.

#### Stability

Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

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|   |   |
|---|---|
| <b>Possibility of hazardous reactions</b> | No potentially hazardous reactions known.   |
| <b>Conditions to avoid</b>                | There are no known conditions that are likely to result in a hazardous situation.   |
| <b>Materials to avoid</b>                 | No specific material or group of materials is likely to react with the product to produce a hazardous situation.  |
| <b>Hazardous decomposition products</b>   | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. |

### 11. Toxicological information

#### Information on toxicological effects

|  |   |
|--|---|
| <b>Toxicological effects</b>                                     | Not regarded as a health hazard under current legislation.                  |
| <b>Other health effects</b>                                      | There is no evidence that the product can cause cancer.                     |
| <b><u>Acute toxicity - oral</u></b>                              |   |
| <b>Notes (oral LD<sub>50</sub>)</b>                              | Based on available data the classification criteria are not met.            |
| <b><u>Acute toxicity - dermal</u></b>                            |   |
| <b>Notes (dermal LD<sub>50</sub>)</b>                            | Based on available data the classification criteria are not met.            |
| <b><u>Acute toxicity - inhalation</u></b>                        |   |
| <b>Notes (inhalation LC<sub>50</sub>)</b>                        | Based on available data the classification criteria are not met.            |
| <b><u>Skin corrosion/irritation</u></b>                          |   |
| <b>Animal data</b>   | Based on available data the classification criteria are not met.            |
| <b><u>Serious eye damage/irritation</u></b>                      |   |
| <b>Serious eye damage/irritation</b>                             | Based on available data the classification criteria are not met.            |
| <b><u>Respiratory sensitization</u></b>                          |   |
| <b>Respiratory sensitization</b>                                 | Based on available data the classification criteria are not met.            |
| <b><u>Skin sensitization</u></b>                                 |   |
| <b>Skin sensitization</b>  | Based on available data the classification criteria are not met.            |
| <b><u>Germ cell mutagenicity</u></b>                             |   |
| <b>Genotoxicity - in vitro</b>                                   | Based on available data the classification criteria are not met.            |
| <b><u>Carcinogenicity</u></b>                                    |   |
| <b>Carcinogenicity</b>   | Based on available data the classification criteria are not met.            |
| <b>IARC carcinogenicity</b>                                      | None of the ingredients are listed or exempt.                               |
| <b><u>Reproductive toxicity</u></b>                              |   |
| <b>Reproductive toxicity - fertility</b>                         | Based on available data the classification criteria are not met.            |
| <b>Reproductive toxicity - development</b>                       | Based on available data the classification criteria are not met.            |
| <b><u>Specific target organ toxicity - single exposure</u></b>   |   |
| <b>STOT - single exposure</b>                                    | Not classified as a specific target organ toxicant after a single exposure. |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |   |
| <b>STOT - repeated exposure</b>                                  | Not classified as a specific target organ toxicant after repeated exposure. |

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### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

### **General information**

No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

### **Inhalation**

Prolonged inhalation of high concentrations may damage respiratory system.

### **Ingestion**

Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

### **Skin Contact**

Prolonged contact may cause dryness of the skin.

### **Eye contact**

May cause temporary eye irritation.

### **Acute and chronic health hazards**

No specific health hazards known. No specific acute or chronic health impact noted, but this chemical may still have adverse impact on human health, either in general or on certain individuals with pre-existing or latent health problems.

### **Route of entry**

Ingestion Inhalation Skin and/or eye contact

### **Target Organs**

No specific target organs known.

## 12. Ecological Information

### **Ecotoxicity**

Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

### Toxicity

### **Toxicity**

Based on available data the classification criteria are not met.

### **Acute toxicity - fish**

No information required.

### **Acute toxicity - aquatic invertebrates**

No information required.

### **Acute toxicity - aquatic plants**

No information required.

### **Acute toxicity - microorganisms**

No information required.

### Persistence and degradability

### **Persistence and degradability**

The degradability of the product is not known.

### Bioaccumulative potential

### **Bio-Accumulative Potential**

No data available on bioaccumulation.

### Mobility in soil

### **Mobility**

No data available.

### Results of PBT and vPvB assessment

### **Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

### Other adverse effects

### **Other adverse effects**

None known.

## 13. Disposal considerations

### Waste treatment methods

## SC3001 250G RESIN PACK PART A

|                            |   |
|----------------------------|---|
| <b>General information</b> | The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. |
| <b>Disposal methods</b>    | Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.                          |

### 14. Transport information

|   |  |
|---|--|
| <b>General</b>  | The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT). |
| <b>Road transport notes</b>   | Not classified.  |
| <b>Rail transport notes</b>   | Not classified.  |
| <b>Sea transport notes</b>  | Not classified.  |
| <b>Air transport notes</b>  | Not classified.  |
| <b><u>UN Number</u></b>   |  |
| No information required.  |  |
| <b><u>UN proper shipping name</u></b>   |  |
| No information required.  |  |
| <b><u>Transport hazard class(es)</u></b>  |  |
| No information required.  |  |
| <b>Transport labels</b>   |  |
| <b><u>Packing group</u></b>   |  |
| No information required.  |  |
| <b><u>Environmental hazards</u></b>   |  |
| <b>Environmentally Hazardous Substance</b>                                      |  |
| No.   |  |
| <b><u>Special precautions for user</u></b>                                      |  |
| No information required.  |  |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | No information required.   |

### 15. Regulatory information

#### **US Federal Regulations**

##### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

## SC3001 250G RESIN PACK PART A

### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

None of the ingredients are listed or exempt.

### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed or exempt.

### **SARA 313 Emission Reporting**

None of the ingredients are listed or exempt.

### **CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

### **FDA - Essential Chemical**

None of the ingredients are listed or exempt.

### **FDA - Precursor Chemical**

None of the ingredients are listed or exempt.

### **SARA (311/312) Hazard Categories**

None of the ingredients are listed or exempt.

### **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

### **US State Regulations**

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### **California Air Toxics "Hot Spots" (A-I)**

None of the ingredients are listed or exempt.

#### **California Air Toxics "Hot Spots" (A-II)**

None of the ingredients are listed or exempt.

#### **California Directors List of Hazardous Substances**

None of the ingredients are listed or exempt.

#### **Massachusetts "Right To Know" List**

None of the ingredients are listed or exempt.

#### **Rhode Island "Right To Know" List**

None of the ingredients are listed or exempt.

#### **Minnesota "Right To Know" List**

None of the ingredients are listed or exempt.

#### **New Jersey "Right To Know" List**

None of the ingredients are listed or exempt.

#### **Pennsylvania "Right To Know" List**

None of the ingredients are listed or exempt.

### **Inventories**

#### **US - TSCA**

None of the ingredients are listed or exempt.



## SC3001 250G RESIN PACK PART A

### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

#### 16. Other information

|   |  |
|---|--|
| <b>Training advice</b>                      | Read and follow manufacturer's recommendations. Only trained personnel should use this material. |
| <b>Issued by</b>                            | Bethan Massey  |
| <b>Revision date</b>                        | 9/28/2016  |
| <b>Revision</b>                             | 8  |
| <b>SDS No.</b>                              | 13089  |
| <b>NFPA - health hazard</b>                 | No health hazards specifically noted for fire situations. (0)                                    |
| <b>NFPA - flammability hazard</b>           | Will not burn. (0)   |
| <b>NFPA - instability hazard</b>            | Normally stable. (0)   |
| <b>ACA HMIS Health rating.</b>              | Minimal hazard. (0)  |
| <b>ACA HMIS Flammability rating.</b>        | Will not burn. (0)   |
| <b>ACA HMIS Physical hazard rating.</b>     | Normally stable. (0)   |
| <b>ACA HMIS Personal protection rating.</b> | B  |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SAFETY DATA SHEET

### SC3001 250G RESIN PACK PART B

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

#### 1. Identification

##### Product identifier

**Product name** SC3001 250G RESIN PACK PART B

**Product number** SC3001B, ESC3001K25K, ESC3001RP250G, ESC3001K5K, ZE

##### Recommended use of the chemical and restrictions on use

**Application** Resin.

**Uses advised against** No specific uses advised against are identified.

##### Details of the supplier of the safety data sheet

**Supplier** HK WENTWORTH-AMERICA  
HK WENTWORTH-AMERICA  
PO BOX 271347  
FLOWER MOUND  
TEXAS 75027  
USA  
info@hkw.co.uk

##### Emergency telephone number

**Emergency telephone** +1 202 464 2554 (USA only)  
+44 1235 239670

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

EC No 1272/2008

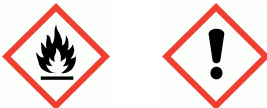
**Physical hazards** Flam. Liq. 3 - H226

**Health hazards** Acute Tox. 4 - H332 STOT SE 3 - H335

**Environmental hazards** Not Classified

##### Label elements

**Pictogram**



**Signal word** Warning

**Hazard statements** H226 Flammable liquid and vapor.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

## SC3001 250G RESIN PACK PART B

|                                 |   |
|---------------------------------|---|
| <b>Precautionary statements</b> | <p>P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>P240 Ground/ bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P261 Avoid breathing vapor/ spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312 Call a poison center/ doctor if you feel unwell.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> |
|---------------------------------|---|

**Contains** TETRAETHYL SILICATE

### Other hazards

This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on ingredients

#### Mixtures

|                            |                |
|----------------------------|----------------|
| <b>TETRAETHYL SILICATE</b> | <b>60-100%</b> |
| CAS number: 78-10-4        |                |
| <b>Classification</b>      |                |
| Flam. Liq. 3 - H226        |                |
| Acute Tox. 4 - H332        |                |
| Eye Irrit. 2 - H319        |                |
| STOT SE 3 - H335           |                |

The Full Text for all Hazard Statements are Displayed in Section 16.

**Composition comments** No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

### 4. First-aid measures

#### Description of first aid measures

|                            |  |
|----------------------------|--|
| <b>General information</b> | Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.   |
| <b>Inhalation</b>          | Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place. |

## SC3001 250G RESIN PACK PART B

|                                   |   |
|-----------------------------------|---|
| <b>Ingestion</b>                  | Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. |
| <b>Skin Contact</b>               | Rinse with water.   |
| <b>Eye contact</b>                | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.   |
| <b>Protection of first aiders</b> | First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.   |

### Most important symptoms and effects, both acute and delayed

|                            |  |
|----------------------------|--|
| <b>General information</b> | See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| <b>Inhalation</b>          | A single exposure may cause the following adverse effects: Headache. Exhaustion and weakness.  |
| <b>Ingestion</b>           | Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.                        |
| <b>Skin contact</b>        | Prolonged contact may cause dryness of the skin.   |
| <b>Eye contact</b>         | Irritating to eyes.  |

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

|                             |                        |
|-----------------------------|------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically. |
|-----------------------------|------------------------|

## 5. Fire-fighting measures

### Extinguishing media

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire.   |

### Special hazards arising from the substance or mixture

|                                      |  |
|--------------------------------------|--|
| <b>Specific hazards</b>              | Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapors may be ignited by a spark, a hot surface or an ember. Vapors may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard. This product is toxic. |
| <b>Hazardous combustion products</b> | Thermal decomposition or combustion products may include the following substances: Toxic gases or vapors.  |

### Advice for firefighters

## SC3001 250G RESIN PACK PART B

|  |  |
|--|--|
| <b>Protective actions during firefighting</b>        | Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. |
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.  |

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of dust and vapors. Use suitable respiratory protection if ventilation is inadequate. |
|-----------------------------|--|

#### Environmental precautions

|                                  |  |
|----------------------------------|--|
| <b>Environmental precautions</b> | Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air). |
|----------------------------------|--|

#### Methods and material for containment and cleaning up

|                                |  |
|--------------------------------|--|
| <b>Methods for cleaning up</b> | Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Provide adequate ventilation. Approach the spillage from upwind. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labeled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. |
|--------------------------------|--|

|                                    |   |
|------------------------------------|---|
| <b>Reference to other sections</b> | For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13. |
|------------------------------------|---|

### 7. Handling and storage

#### Precautions for safe handling

## SC3001 250G RESIN PACK PART B

### Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. In use may form flammable/explosive vapour-air mixture. Vapors may accumulate on the floor and in low-lying areas. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

### Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

### Conditions for safe storage, including any incompatibilities

#### Storage precautions

Store in accordance with local regulations. Eliminate all sources of ignition. Take precautionary measures against static discharges. Ground container and transfer equipment to eliminate sparks from static electricity. Keep away from oxidizing materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

#### Storage class

Flammable liquid storage.

#### Specific end uses(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## 8. Exposure Controls/personal protection

### Control parameters

#### Occupational exposure limits

#### TETRAETHYL SILICATE

Long-term exposure limit (8-hour TWA): ACGIH 10 ppm

Short-term exposure limit (15-minute): ACGIH

ACGIH = American Conference of Governmental Industrial Hygienists.

#### Ingredient comments

No exposure limits known for ingredient(s).

### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilating equipment.

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|  |  |
|--|--|
| <b>Eye/face protection</b>             | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.  |
| <b>Hand protection</b>                 | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. |
| <b>Other skin and body protection</b>  | Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.  |
| <b>Hygiene measures</b>                | Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.   |
| <b>Respiratory protection</b>          | Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.   |
| <b>Environmental exposure controls</b> | Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.  |

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

|  |                                 |
|--|---------------------------------|
| <b>Appearance</b>                      | Liquid.                         |
| <b>Color</b>                           | Clear liquid.                   |
| <b>pH</b>                              | pH (concentrated solution):     |
| <b>Initial boiling point and range</b> | 130 (266 F)°C @                 |
| <b>Flash point</b>                     | 39 (102.2 F)°C CC (Closed cup). |
| <b>Relative density</b>                | 0.98 @ @ 20 °C (68 F)°C         |
| <b>Viscosity</b>                       | 20 mPa s @ @23°C (73.4 F)°C     |
| <b>Other information</b>               | None.                           |

### 10. Stability and reactivity

|                   |   |
|-------------------|---|
| <b>Reactivity</b> | There are no known reactivity hazards associated with this product. |
|-------------------|---|

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|   |  |
|---|--|
| <b>Stability</b>                          | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.  |
| <b>Possibility of hazardous reactions</b> | The following materials may react strongly with the product: Oxidizing agents.   |
| <b>Conditions to avoid</b>                | Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented. Do not pressurize, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition. |
| <b>Materials to avoid</b>                 | Oxidizing materials. Acids - oxidizing.  |
| <b>Hazardous decomposition products</b>   | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapors.  |

### 11. Toxicological information

#### Information on toxicological effects

**Toxicological effects** No information available.

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Acute Tox. 4 - H332 Harmful if inhaled.

**ATE inhalation (gases ppm)** 4,500.0

**ATE inhalation (vapours mg/l)** 11.0

**ATE inhalation (dusts/mists mg/l)** 1.5

#### Skin corrosion/irritation

**Animal data** Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

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

#### Respiratory sensitization

**Respiratory sensitization** Based on available data the classification criteria are not met.

#### Skin sensitization

**Skin sensitization** Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

#### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

#### IARC carcinogenicity

None of the ingredients are listed or exempt.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.



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**Reproductive toxicity - development** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 3 - H335 May cause respiratory irritation.

**Target organs** Respiratory system, lungs

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

### **General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

### **Inhalation**

A single exposure may cause the following adverse effects: Headache. Exhaustion and weakness.

### **Ingestion**

Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

### **Skin Contact**

Prolonged contact may cause dryness of the skin.

### **Eye contact**

Irritating to eyes.

### **Route of entry**

Ingestion Inhalation Skin and/or eye contact

### **Target Organs**

Respiratory system, lungs

## 12. Ecological Information

### **Ecotoxicity**

Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

### Toxicity

**Toxicity** Based on available data the classification criteria are not met.

### Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

### Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

### Mobility in soil

**Mobility** No data available.

### Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Other adverse effects

**Other adverse effects** None known.

## 13. Disposal considerations

### Waste treatment methods

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### General information

The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

### Disposal methods

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible. Vapor from residual product may create a highly flammable or explosive atmosphere inside the container. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Do not cut or weld used containers unless they have been thoroughly cleaned internally.

## 14. Transport information

### General

For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

### UN Number

|               |        |
|---------------|--------|
| UN No. (TDG)  | 1292   |
| UN No. (IMDG) | 1292   |
| UN No. (ICAO) | 1292   |
| UN No. (DOT)  | ID8000 |

### UN proper shipping name

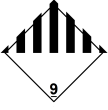
|                             |                     |
|-----------------------------|---------------------|
| Proper shipping name (TDG)  | TETRAETHYL SILICATE |
| Proper shipping name (IMDG) | TETRAETHYL SILICATE |
| Proper shipping name (ICAO) | TETRAETHYL SILICATE |
| Proper shipping name (DOT)  | CONSUMER COMMODITY  |

### Transport hazard class(es)

|                     |   |
|---------------------|---|
| DOT hazard class    | 9 |
| DOT hazard label    | 9 |
| TDG class           | 3 |
| TDG label(s)        | 3 |
| IMDG Class          | 3 |
| ICAO class/division | 3 |

### Transport labels



**SC3001 250G RESIN PACK PART B****DOT transport labels****Packing group**

|                           |     |
|---------------------------|-----|
| <b>TDG Packing Group</b>  | III |
| <b>IMDG packing group</b> | III |
| <b>ICAO packing group</b> | III |

**Environmental hazards****Environmentally Hazardous Substance**

No.

**Special precautions for user**

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**EmS** F-E, S-D

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

**15. Regulatory information****US Federal Regulations****SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

None of the ingredients are listed or exempt.

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed or exempt.

**SARA 313 Emission Reporting**

None of the ingredients are listed or exempt.

**CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

**FDA - Essential Chemical**

None of the ingredients are listed or exempt.

**FDA - Precursor Chemical**

None of the ingredients are listed or exempt.

**SARA (311/312) Hazard Categories**

None of the ingredients are listed or exempt.

**OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

**US State Regulations**

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### California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed or exempt.

### California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed or exempt.

### California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

### California Directors List of Hazardous Substances

None of the ingredients are listed or exempt.

### Massachusetts "Right To Know" List

None of the ingredients are listed or exempt.

### Rhode Island "Right To Know" List

None of the ingredients are listed or exempt.

### Minnesota "Right To Know" List

None of the ingredients are listed or exempt.

### New Jersey "Right To Know" List

None of the ingredients are listed or exempt.

### Pennsylvania "Right To Know" List

None of the ingredients are listed or exempt.

### Inventories

#### US - TSCA

None of the ingredients are listed or exempt.

#### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

### 16. Other information

|                                   |   |
|-----------------------------------|---|
| <b>Training advice</b>            | Read and follow manufacturer's recommendations. Only trained personnel should use this material.  |
| <b>Issued by</b>                  | Bethan Massey   |
| <b>Revision date</b>              | 9/28/2016   |
| <b>Revision</b>                   | 6   |
| <b>SDS No.</b>                    | 13090   |
| <b>Hazard statements in full</b>  | H226 Flammable liquid and vapor.<br>H319 Causes serious eye irritation.<br>H332 Harmful if inhaled.<br>H335 May cause respiratory irritation. |
| <b>NFPA - health hazard</b>       | Temporary incapacitation, injury. (2)   |
| <b>NFPA - flammability hazard</b> | Ignites easily. (3)   |
| <b>NFPA - instability hazard</b>  | Normally stable. (0)  |
| <b>ACA HMIS Health rating.</b>    | Moderate hazard. (2)  |

**SC3001 250G RESIN PACK PART B**

|   |                      |
|---|----------------------|
| <b>ACA HMIS Flammability rating.</b>        | Ignites easily. (3)  |
| <b>ACA HMIS Physical hazard rating.</b>     | Normally stable. (0) |
| <b>ACA HMIS Personal protection rating.</b> | B                    |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.