Section 1. Identification

Product identifier : PolyAcrylic Acid KIT, Part Number PL2140-0100
Part No. (Chemical Kit) : PL2140-0100
Part No. :
  Nominal 1K Not available.
  Nominal 3K Not available.
  Nominal 7K Not available.
  Nominal 13K Not available.
  Nominal 30K Not available.
  Nominal 70K Not available.
  Nominal 130K Not available.
  Nominal 300K Not available.
  Nominal 700K Not available.
  Nominal 1 Million Not available.

Relevant identified uses of the substance or mixture and uses advised against

Analytical chemistry. 0.2 g x 10 Bottle
- Nominal 1K 0.2 g
- Nominal 3K 0.2 g
- Nominal 7K 0.2 g
- Nominal 13K 0.2 g
- Nominal 30K 0.2 g
- Nominal 70K 0.2 g
- Nominal 130K 0.2 g
- Nominal 300K 0.2 g
- Nominal 700K 0.2 g
- Nominal 1 Million 0.2 g

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
  679 Springvale Road
  Mulgrave
  Victoria 3170, Australia
  1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Nominal 1K
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

Nominal 3K
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

Nominal 7K
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

Nominal 13K
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

Nominal 30K
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

Date of issue/Date of revision : 21/11/2017  Date of previous issue : 29/02/2016  Version : 4
### Section 2. Hazard(s) identification

<table>
<thead>
<tr>
<th>Nominal 70K</th>
<th>H319</th>
<th>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal 130K</td>
<td>H319</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Nominal 300K</td>
<td>H319</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Nominal 700K</td>
<td>H319</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Nominal 1 Million</td>
<td>H319</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A</td>
</tr>
</tbody>
</table>

**GHS label elements**

**Hazard pictograms**

- Nominal 1K
- Nominal 3K
- Nominal 7K
- Nominal 13K
- Nominal 30K
- Nominal 70K
- Nominal 130K
- Nominal 300K
- Nominal 700K
- Nominal 1 Million
Section 2. Hazard(s) identification

Signal word:
- Nominal 1K: WARNING
- Nominal 3K: WARNING
- Nominal 7K: WARNING
- Nominal 13K: WARNING
- Nominal 30K: WARNING
- Nominal 70K: WARNING
- Nominal 130K: WARNING
- Nominal 300K: WARNING
- Nominal 700K: WARNING
- Nominal 1 Million: WARNING

Hazard statements:
- Nominal 1K: H319 - Causes serious eye irritation.
- Nominal 3K: H319 - Causes serious eye irritation.
- Nominal 7K: H319 - Causes serious eye irritation.
- Nominal 13K: H319 - Causes serious eye irritation.
- Nominal 30K: H319 - Causes serious eye irritation.
- Nominal 70K: H319 - Causes serious eye irritation.
- Nominal 130K: H319 - Causes serious eye irritation.
- Nominal 300K: H319 - Causes serious eye irritation.
- Nominal 700K: H319 - Causes serious eye irritation.
- Nominal 1 Million: H319 - Causes serious eye irritation.

Precautionary statements:

Prevention:
- Nominal 1K: P280 - Wear eye or face protection.
P264 - Wash hands thoroughly after handling.
- Nominal 3K: P280 - Wear eye or face protection.
P264 - Wash hands thoroughly after handling.
- Nominal 7K: P280 - Wear eye or face protection.
P264 - Wash hands thoroughly after handling.
- Nominal 13K: P280 - Wear eye or face protection.
P264 - Wash hands thoroughly after handling.
- Nominal 30K: P280 - Wear eye or face protection.
P264 - Wash hands thoroughly after handling.
- Nominal 70K: P280 - Wear eye or face protection.
P264 - Wash hands thoroughly after handling.
- Nominal 130K: P280 - Wear eye or face protection.
P264 - Wash hands thoroughly after handling.
- Nominal 300K: P280 - Wear eye or face protection.
P264 - Wash hands thoroughly after handling.
- Nominal 700K: P280 - Wear eye or face protection.
P264 - Wash hands thoroughly after handling.
- Nominal 1 Million: P280 - Wear eye or face protection.
P264 - Wash hands thoroughly after handling.

Response:
- Nominal 1K: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.
- Nominal 3K: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.
- Nominal 7K: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.
- Nominal 13K: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Section 2. Hazard(s) identification

P337 + P313 - If eye irritation persists: Get medical attention.

Nominal 30K
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.

Nominal 70K
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.

Nominal 130K
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.

Nominal 300K
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.

Nominal 700K
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.

Nominal 1 Million
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.

Storage: Nominal 1K Not applicable.
Nominal 3K Not applicable.
Nominal 7K Not applicable.
Nominal 13K Not applicable.
Nominal 30K Not applicable.
Nominal 70K Not applicable.
Nominal 130K Not applicable.
Nominal 300K Not applicable.
Nominal 700K Not applicable.
Nominal 1 Million Not applicable.

Disposal:
Nominal 1K Not applicable.
Nominal 3K Not applicable.
Nominal 7K Not applicable.
Nominal 13K Not applicable.
Nominal 30K Not applicable.
Nominal 70K Not applicable.
Nominal 130K Not applicable.
Nominal 300K Not applicable.
Nominal 700K Not applicable.
Nominal 1 Million Not applicable.

Supplemental label elements
Additional warning phrases:
Nominal 1K Not applicable.
Nominal 3K Not applicable.
Nominal 7K Not applicable.
Nominal 13K Not applicable.
Nominal 30K Not applicable.
Nominal 70K Not applicable.
Nominal 130K Not applicable.
Nominal 300K Not applicable.
Section 2. Hazard(s) identification

Other hazards which do not result in classification:
- Nominal 1K: May form explosible dust-air mixture if dispersed.
- Nominal 3K: May form explosible dust-air mixture if dispersed.
- Nominal 7K: May form explosible dust-air mixture if dispersed.
- Nominal 13K: May form explosible dust-air mixture if dispersed.
- Nominal 30K: May form explosible dust-air mixture if dispersed.
- Nominal 70K: May form explosible dust-air mixture if dispersed.
- Nominal 130K: May form explosible dust-air mixture if dispersed.
- Nominal 300K: May form explosible dust-air mixture if dispersed.
- Nominal 700K: May form explosible dust-air mixture if dispersed.
- Nominal 1 Million: May form explosible dust-air mixture if dispersed.

Section 3. Composition and ingredient information

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal 1K</td>
<td>Sodium poly acrylate</td>
<td>100</td>
<td>9003-04-7</td>
</tr>
<tr>
<td>Nominal 3K</td>
<td>Sodium poly acrylate</td>
<td>100</td>
<td>9003-04-7</td>
</tr>
<tr>
<td>Nominal 7K</td>
<td>Sodium poly acrylate</td>
<td>100</td>
<td>9003-04-7</td>
</tr>
<tr>
<td>Nominal 13K</td>
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<td>Nominal 130K</td>
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<td>Nominal 300K</td>
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<tr>
<td>Nominal 700K</td>
<td>Sodium poly acrylate</td>
<td>100</td>
<td>9003-04-7</td>
</tr>
<tr>
<td>Nominal 1 Million</td>
<td>Sodium poly acrylate</td>
<td>100</td>
<td>9003-04-7</td>
</tr>
</tbody>
</table>
Section 3. Composition and ingredient information

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

| Description of necessary first aid measures |  
|-------------------------------------------|---
| Eye contact                               | Nominal 1K
|                                           | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
|                                           | Nominal 3K
|                                           | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
|                                           | Nominal 7K
|                                           | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
|                                           | Nominal 13K
|                                           | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
|                                           | Nominal 30K
|                                           | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
|                                           | Nominal 70K
|                                           | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
|                                           | Nominal 130K
|                                           | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
|                                           | Nominal 300K
|                                           | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
|                                           | Nominal 700K
|                                           | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
|                                           | Nominal 1 Million
|                                           | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

| Inhalation                               | Nominal 1K
|                                           | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
|                                           | Nominal 3K
|                                           | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Section 4. First aid measures

personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 7K
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 13K
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 30K
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 70K
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 130K
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 300K
Remove victim to fresh air and keep at rest in a
Section 4. First aid measures

position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 700K
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 1 Million
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact:

Nominal 1K
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Nominal 3K
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Nominal 7K
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Nominal 13K
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Nominal 30K
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Nominal 70K
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Nominal 130K
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Nominal 300K
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing
### Ingestion

<table>
<thead>
<tr>
<th>Nominal 700K</th>
<th>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal 1 Million</td>
<td>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</td>
</tr>
<tr>
<td>Nominal 7K</td>
<td>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</td>
</tr>
<tr>
<td>Nominal 13K</td>
<td>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</td>
</tr>
</tbody>
</table>
Section 4. First aid measures

may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 30K
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 70K
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 130K
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 300K
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.
Section 4. First aid measures

Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 700K
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Nominal 1 Million
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

Nominal 1K  Causes serious eye irritation.
Nominal 3K  Causes serious eye irritation.
Nominal 7K  Causes serious eye irritation.
Nominal 13K Causes serious eye irritation.
Nominal 30K Causes serious eye irritation.
Nominal 70K Causes serious eye irritation.
Nominal 130K Causes serious eye irritation.
Nominal 300K Causes serious eye irritation.
Nominal 700K Causes serious eye irritation.
Nominal 1 Million Causes serious eye irritation.
Section 4. First aid measures

**Inhalation**

- **Nominal 1K**: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- **Nominal 3K**: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- **Nominal 7K**: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- **Nominal 13K**: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- **Nominal 30K**: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- **Nominal 70K**: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- **Nominal 130K**: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- **Nominal 300K**: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- **Nominal 700K**: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- **Nominal 1 Million**: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Skin contact**

- **Nominal 1K**: No known significant effects or critical hazards.
- **Nominal 3K**: No known significant effects or critical hazards.
- **Nominal 7K**: No known significant effects or critical hazards.
- **Nominal 13K**: No known significant effects or critical hazards.
- **Nominal 30K**: No known significant effects or critical hazards.
- **Nominal 70K**: No known significant effects or critical hazards.
- **Nominal 130K**: No known significant effects or critical hazards.
- **Nominal 300K**: No known significant effects or critical hazards.
- **Nominal 700K**: No known significant effects or critical hazards.
- **Nominal 1 Million**: No known significant effects or critical hazards.

**Ingestion**

- **Nominal 1K**: No known significant effects or critical hazards.
- **Nominal 3K**: No known significant effects or critical hazards.
- **Nominal 7K**: No known significant effects or critical hazards.
- **Nominal 13K**: No known significant effects or critical hazards.
- **Nominal 30K**: No known significant effects or critical hazards.
- **Nominal 70K**: No known significant effects or critical hazards.
- **Nominal 130K**: No known significant effects or critical hazards.
- **Nominal 300K**: No known significant effects or critical hazards.
- **Nominal 700K**: No known significant effects or critical hazards.
- **Nominal 1 Million**: No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

- **Eye contact**
  - **Nominal 1K**: Adverse symptoms may include the following: pain or irritation, watering, redness.
  - **Nominal 3K**: Adverse symptoms may include the following: pain or irritation, watering, redness.
  - **Nominal 7K**: Adverse symptoms may include the following: pain or irritation, watering, redness.

Date of issue/Date of revision: 21/11/2017  
Date of previous issue: 29/02/2016  
Version: 4
## Section 4. First aid measures

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Adverse symptoms may include the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1K</td>
<td>respiratory tract irritation, coughing</td>
</tr>
<tr>
<td>3K</td>
<td>respiratory tract irritation, coughing</td>
</tr>
<tr>
<td>7K</td>
<td>respiratory tract irritation, coughing</td>
</tr>
<tr>
<td>13K</td>
<td>respiratory tract irritation, coughing</td>
</tr>
<tr>
<td>30K</td>
<td>respiratory tract irritation, coughing</td>
</tr>
<tr>
<td>70K</td>
<td>respiratory tract irritation, coughing</td>
</tr>
<tr>
<td>130K</td>
<td>respiratory tract irritation, coughing</td>
</tr>
<tr>
<td>300K</td>
<td>respiratory tract irritation, coughing</td>
</tr>
<tr>
<td>700K</td>
<td>respiratory tract irritation, coughing</td>
</tr>
<tr>
<td>1 Million</td>
<td>respiratory tract irritation, coughing</td>
</tr>
</tbody>
</table>

**Inhalation**

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Adverse symptoms may include the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1K</td>
<td>pain or irritation, watering, redness</td>
</tr>
<tr>
<td>3K</td>
<td>pain or irritation, watering, redness</td>
</tr>
<tr>
<td>7K</td>
<td>pain or irritation, watering, redness</td>
</tr>
<tr>
<td>13K</td>
<td>pain or irritation, watering, redness</td>
</tr>
<tr>
<td>30K</td>
<td>pain or irritation, watering, redness</td>
</tr>
<tr>
<td>70K</td>
<td>pain or irritation, watering, redness</td>
</tr>
<tr>
<td>130K</td>
<td>pain or irritation, watering, redness</td>
</tr>
<tr>
<td>300K</td>
<td>pain or irritation, watering, redness</td>
</tr>
<tr>
<td>700K</td>
<td>pain or irritation, watering, redness</td>
</tr>
<tr>
<td>1 Million</td>
<td>pain or irritation, watering, redness</td>
</tr>
</tbody>
</table>
Section 4. First aid measures

Skin contact:
- Nominal 1K: No specific data.
- Nominal 3K: No specific data.
- Nominal 7K: No specific data.
- Nominal 13K: No specific data.
- Nominal 30K: No specific data.
- Nominal 70K: No specific data.
- Nominal 130K: No specific data.
- Nominal 300K: No specific data.
- Nominal 700K: No specific data.
- Nominal 1 Million: No specific data.

Ingestion:
- Nominal 1K: No specific data.
- Nominal 3K: No specific data.
- Nominal 7K: No specific data.
- Nominal 13K: No specific data.
- Nominal 30K: No specific data.
- Nominal 70K: No specific data.
- Nominal 130K: No specific data.
- Nominal 300K: No specific data.
- Nominal 700K: No specific data.
- Nominal 1 Million: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:
- Nominal 1K: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Nominal 3K: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Nominal 7K: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Nominal 13K: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Nominal 30K: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Nominal 70K: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Nominal 130K: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Nominal 300K: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Nominal 700K: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Nominal 1 Million: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments:
- Nominal 1K: No specific treatment.
- Nominal 3K: No specific treatment.
- Nominal 7K: No specific treatment.
- Nominal 30K: No specific treatment.
- Nominal 70K: No specific treatment.
- Nominal 130K: No specific treatment.
- Nominal 300K: No specific treatment.
- Nominal 700K: No specific treatment.
- Nominal 1 Million: No specific treatment.
Section 4. First aid measures

Protection of first-aiders : Nominal 1K
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Nominal 3K
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Nominal 7K
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Nominal 13K
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Nominal 30K
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Nominal 70K
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Nominal 130K
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Nominal 300K
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Nominal 700K
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Nominal 1 Million
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media : Nominal 1K
Use dry chemical powder.

Nominal 3K
Use dry chemical powder.

Nominal 7K
Use dry chemical powder.

Nominal 13K
Use dry chemical powder.

Nominal 30K
Use dry chemical powder.

Nominal 70K
Use dry chemical powder.

Nominal 130K
Use dry chemical powder.

Nominal 300K
Use dry chemical powder.

Nominal 700K
Use dry chemical powder.

Nominal 1 Million
Use dry chemical powder.
### Section 5. Firefighting measures

#### Unsuitable extinguishing media
- **Nominal 1K**: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
- **Nominal 3K**: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
- **Nominal 7K**: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
- **Nominal 13K**: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
- **Nominal 30K**: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
- **Nominal 70K**: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
- **Nominal 130K**: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
- **Nominal 300K**: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
- **Nominal 700K**: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
- **Nominal 1 Million**: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

#### Specific hazards arising from the chemical
- **Nominal 1K**: May form explosible dust-air mixture if dispersed.
- **Nominal 3K**: May form explosible dust-air mixture if dispersed.
- **Nominal 7K**: May form explosible dust-air mixture if dispersed.
- **Nominal 13K**: May form explosible dust-air mixture if dispersed.
- **Nominal 30K**: May form explosible dust-air mixture if dispersed.
- **Nominal 70K**: May form explosible dust-air mixture if dispersed.
- **Nominal 130K**: May form explosible dust-air mixture if dispersed.
- **Nominal 300K**: May form explosible dust-air mixture if dispersed.
- **Nominal 700K**: May form explosible dust-air mixture if dispersed.
- **Nominal 1 Million**: May form explosible dust-air mixture if dispersed.

#### Hazardous thermal decomposition products
- **Nominal 1K**: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - metal oxide/oxides
- **Nominal 3K**: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - metal oxide/oxides
- **Nominal 7K**: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - metal oxide/oxides
- **Nominal 13K**: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - metal oxide/oxides
- **Nominal 30K**: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - metal oxide/oxides
- **Nominal 70K**: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - metal oxide/oxides
- **Nominal 130K**: Decomposition products may include the following materials:
Section 5. Firefighting measures

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Decomposition products may include the following materials:</th>
</tr>
</thead>
<tbody>
<tr>
<td>300K</td>
<td>carbon dioxide, carbon monoxide, metal oxide/oxides</td>
</tr>
<tr>
<td>700K</td>
<td>carbon dioxide, carbon monoxide, metal oxide/oxides</td>
</tr>
<tr>
<td>1 Million</td>
<td>carbon dioxide, carbon monoxide, metal oxide/oxides</td>
</tr>
</tbody>
</table>

Special protective actions for fire-fighters:

- **Nominal 1K**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- **Nominal 3K**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- **Nominal 7K**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- **Nominal 13K**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- **Nominal 30K**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- **Nominal 70K**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- **Nominal 130K**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- **Nominal 300K**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Section 5. Firefighting measures

action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Nominal 700K
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Nominal 1 Million
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

Nominal 1K
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Nominal 3K
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Nominal 7K
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Nominal 13K
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Nominal 30K
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Nominal 70K
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Nominal 130K
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Nominal 300K
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Nominal 700K
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Nominal 1 Million
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Nominal 1K
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
Put on appropriate personal protective equipment.

Nominal 3K
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
Put on appropriate personal protective equipment.

Nominal 7K
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
Put on appropriate personal protective equipment.

Nominal 13K
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
Put on appropriate personal protective equipment.

Nominal 30K
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
Put on appropriate personal protective equipment.

Nominal 70K
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
Put on appropriate personal protective equipment.

Nominal 130K
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
### Section 6. Accidental release measures

| Nominal 300K | Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| Nominal 700K | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| Nominal 1 Million | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |

#### For emergency responders:

- **Nominal 1K**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **Nominal 3K**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **Nominal 7K**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **Nominal 13K**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **Nominal 30K**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **Nominal 70K**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **Nominal 130K**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **Nominal 300K**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **Nominal 700K**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
## Section 6. Accidental release measures

<table>
<thead>
<tr>
<th>Nominal 1 Million</th>
<th>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal 1K</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Nominal 3K</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Nominal 7K</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Nominal 13K</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Nominal 30K</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Nominal 70K</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Nominal 130K</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Nominal 300K</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Nominal 700K</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Nominal 1 Million</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
</tbody>
</table>

### Environmental precautions

- **Nominal 1K**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **Nominal 3K**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **Nominal 7K**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **Nominal 13K**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **Nominal 30K**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **Nominal 70K**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **Nominal 130K**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **Nominal 300K**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **Nominal 700K**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **Nominal 1 Million**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and material for containment and cleaning up

- Information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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**Date of previous issue**: 29/02/2016  
**Version**: 4
Section 6. Accidental release measures

Methods for cleaning up: Nominal 1K
Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Nominal 3K
Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Nominal 7K
Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Nominal 13K
Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

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Nominal 70K
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Nominal 300K
Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Nominal 700K
Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Nominal 1 Million
Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
## Section 7. Handling and storage

### Precautions for safe handling

<table>
<thead>
<tr>
<th>Protective measures</th>
<th>Nominal 1K</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.</td>
</tr>
</tbody>
</table>

| Nominal 3K | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. |

| Nominal 7K | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. |

| Nominal 13K | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. |
Section 7. Handling and storage

eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Nominal 30K
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Nominal 70K
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Nominal 130K
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent
Section 7. Handling and storage

dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Nominal 300K
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Nominal 700K
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Nominal 1 Million
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original
Section 7. Handling and storage

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Advice on general occupational hygiene:

Nominal 1K
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Nominal 3K
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Nominal 7K
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Nominal 13K
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Nominal 30K
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Nominal 70K
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Nominal 130K
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Nominal 300K
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

**Nominal 700K**
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Nominal 1 Million**
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Nominal 1K**
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**Nominal 3K**
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**Nominal 7K**
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**Nominal 13K**
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Section 7. Handling and storage

materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Nominal 30K
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Nominal 70K
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Nominal 130K
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Nominal 300K
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Nominal 700K
Store in accordance with local regulations. Store in a segregated and approved area. Store in original
Section 7. Handling and storage

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Nominal 1 Million

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

Environmental exposure controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

: 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.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Section 8. Exposure controls and personal protection

**Body protection**: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection**: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection**: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

**Appearance**

**Physical state**
- Nominal 1K: Solid. [Powder.]
- Nominal 3K: Solid. [Powder.]
- Nominal 7K: Solid. [Powder.]
- Nominal 30K: Solid. [Powder.]
- Nominal 70K: Solid. [Powder.]
- Nominal 130K: Solid. [Powder.]
- Nominal 300K: Solid. [Powder.]
- Nominal 700K: Solid. [Powder.]
- Nominal 1 Million: Solid. [Powder.]

**Colour**
- Nominal 1K: White.
- Nominal 3K: White.
- Nominal 7K: White.
- Nominal 30K: White.
- Nominal 70K: White.
- Nominal 130K: White.
- Nominal 300K: White.
- Nominal 700K: White.
- Nominal 1 Million: White.

**Odour**
- Nominal 1K: Acetic acid. [Slight]
- Nominal 3K: Acetic acid. [Slight]
- Nominal 7K: Acetic acid. [Slight]
- Nominal 13K: Acetic acid. [Slight]
- Nominal 30K: Acetic acid. [Slight]
- Nominal 70K: Acetic acid. [Slight]
- Nominal 130K: Acetic acid. [Slight]
- Nominal 300K: Acetic acid. [Slight]
- Nominal 700K: Acetic acid. [Slight]
- Nominal 1 Million: Acetic acid. [Slight]

**Odour threshold**
- Nominal 1K: Not available.
- Nominal 3K: Not available.
- Nominal 7K: Not available.
- Nominal 13K: Not available.
- Nominal 30K: Not available.
- Nominal 70K: Not available.
- Nominal 130K: Not available.
- Nominal 300K: Not available.
- Nominal 700K: Not available.
- Nominal 1 Million: Not available.

**pH**
- Nominal 1K: Not available.
- Nominal 3K: Not available.
- Nominal 7K: Not available.
- Nominal 13K: Not available.
- Nominal 30K: Not available.
- Nominal 70K: Not available.
- Nominal 130K: Not available.
Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal 1K</th>
<th>Nominal 3K</th>
<th>Nominal 7K</th>
<th>Nominal 13K</th>
<th>Nominal 30K</th>
<th>Nominal 70K</th>
<th>Nominal 130K</th>
<th>Nominal 300K</th>
<th>Nominal 700K</th>
<th>Nominal 1 Million</th>
</tr>
</thead>
<tbody>
<tr>
<td>(flammable) limits</td>
<td></td>
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</tr>
</tbody>
</table>

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Date of previous issue: 29/02/2016
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### Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal 1K</th>
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<th>Nominal 7K</th>
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<th>Nominal 30K</th>
<th>Nominal 70K</th>
<th>Nominal 130K</th>
<th>Nominal 300K</th>
<th>Nominal 700K</th>
<th>Nominal 1 Million</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Solubility</strong></td>
<td>Partially soluble in the following materials: cold water and hot water.</td>
<td>Partially soluble in the following materials: cold water and hot water.</td>
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<td>Partially soluble in the following materials: cold water and hot water.</td>
</tr>
</tbody>
</table>

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*Date of previous issue*: 29/02/2016  
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Section 9. Physical and chemical properties

Auto-ignition temperature
Nominal 1 Million Not available.
Nominal 1K Not available.
Nominal 3K Not available.
Nominal 7K Not available.
Nominal 13K Not available.
Nominal 30K Not available.
Nominal 70K Not available.
Nominal 130K Not available.
Nominal 300K Not available.
Nominal 700K Not available.
Nominal 1 Million Not available.

Decomposition temperature
Nominal 1 Million Not available.
Nominal 1K Not available.
Nominal 3K Not available.
Nominal 7K Not available.
Nominal 13K Not available.
Nominal 30K Not available.
Nominal 70K Not available.
Nominal 130K Not available.
Nominal 300K Not available.
Nominal 700K Not available.
Nominal 1 Million Not available.

Viscosity
Nominal 1 Million Not available.
Nominal 1K Not available.
Nominal 3K Not available.
Nominal 7K Not available.
Nominal 13K Not available.
Nominal 30K Not available.
Nominal 70K Not available.
Nominal 130K Not available.
Nominal 300K Not available.
Nominal 700K Not available.
Nominal 1 Million Not available.

Section 10. Stability and reactivity

Reactivity
Nominal 1K No specific test data related to reactivity available for this product or its ingredients.
Nominal 3K No specific test data related to reactivity available for this product or its ingredients.
Nominal 7K No specific test data related to reactivity available for this product or its ingredients.
Nominal 13K No specific test data related to reactivity available for this product or its ingredients.
Nominal 30K No specific test data related to reactivity available for this product or its ingredients.
Nominal 70K No specific test data related to reactivity available for this product or its ingredients.
Nominal 130K No specific test data related to reactivity available for this product or its ingredients.
Nominal 300K No specific test data related to reactivity available for this product or its ingredients.
Nominal 700K No specific test data related to reactivity available for this product or its ingredients.
Nominal 1 Million No specific test data related to reactivity available for this product or its ingredients.
Section 10. Stability and reactivity

### Chemical stability
- Nominal 1K: The product is stable.
- Nominal 3K: The product is stable.
- Nominal 7K: The product is stable.
- Nominal 13K: The product is stable.
- Nominal 30K: The product is stable.
- Nominal 70K: The product is stable.
- Nominal 130K: The product is stable.
- Nominal 300K: The product is stable.
- Nominal 700K: The product is stable.
- Nominal 1 Million: The product is stable.

### Possibility of hazardous reactions
- Nominal 1K: Under normal conditions of storage and use, hazardous reactions will not occur.
- Nominal 3K: Under normal conditions of storage and use, hazardous reactions will not occur.
- Nominal 7K: Under normal conditions of storage and use, hazardous reactions will not occur.
- Nominal 13K: Under normal conditions of storage and use, hazardous reactions will not occur.
- Nominal 30K: Under normal conditions of storage and use, hazardous reactions will not occur.
- Nominal 70K: Under normal conditions of storage and use, hazardous reactions will not occur.
- Nominal 130K: Under normal conditions of storage and use, hazardous reactions will not occur.
- Nominal 300K: Under normal conditions of storage and use, hazardous reactions will not occur.
- Nominal 700K: Under normal conditions of storage and use, hazardous reactions will not occur.
- Nominal 1 Million: Under normal conditions of storage and use, hazardous reactions will not occur.

### Conditions to avoid
- Nominal 1K: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. Moisture-sensitive material.
- Nominal 3K: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. Moisture-sensitive material.
- Nominal 7K: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. Moisture-sensitive material.
- Nominal 13K: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before...
# Section 10. Stability and reactivity

PolyAcrylic Acid KIT, Part Number PL2140-0100

transferring material. Prevent dust accumulation. Moisture-sensitive material.

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Reactivity and Incompatibility Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>30K</td>
<td>Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. Moisture-sensitive material.</td>
</tr>
<tr>
<td>70K</td>
<td>Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. Moisture-sensitive material.</td>
</tr>
<tr>
<td>130K</td>
<td>Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. Moisture-sensitive material.</td>
</tr>
<tr>
<td>300K</td>
<td>Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. Moisture-sensitive material.</td>
</tr>
<tr>
<td>700K</td>
<td>Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. Moisture-sensitive material.</td>
</tr>
<tr>
<td>1 Million</td>
<td>Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. Moisture-sensitive material.</td>
</tr>
</tbody>
</table>

**Incompatible materials**

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Reactive or incompatible with the following materials:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1K</td>
<td>oxidizing materials</td>
</tr>
<tr>
<td>3K</td>
<td>oxidizing materials</td>
</tr>
<tr>
<td>7K</td>
<td>oxidizing materials</td>
</tr>
<tr>
<td>13K</td>
<td>oxidizing materials</td>
</tr>
<tr>
<td>30K</td>
<td>oxidizing materials</td>
</tr>
<tr>
<td>70K</td>
<td>oxidizing materials</td>
</tr>
</tbody>
</table>

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Section 10. Stability and reactivity

Hazardous decomposition products:

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1K</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>3K</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>7K</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>13K</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>30K</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>70K</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>130K</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>300K</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>700K</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>1 Million</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal 1K Sodium poly acrylate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;8250 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Nominal 3K Sodium poly acrylate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;8250 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Nominal 7K Sodium poly acrylate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;8250 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Nominal 13K Sodium poly acrylate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;8250 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Nominal 30K Sodium poly acrylate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;8250 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Nominal 70K Sodium poly acrylate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;8250 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 21/11/2017  Date of previous issue: 29/02/2016  Version: 4
## Section 11. Toxicological information

### LD50 Oral Rat

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Product/ingredient name</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>130K Sodium poly acrylate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;8250 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>300K Sodium poly acrylate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;8250 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>700K Sodium poly acrylate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;8250 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>1 Million Sodium poly acrylate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;8250 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

### Irritation/Corrosion

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Product/ingredient name</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1K Sodium poly acrylate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>2 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>3K Sodium poly acrylate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>2 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>7K Sodium poly acrylate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>2 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>13K Sodium poly acrylate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>2 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>30K Sodium poly acrylate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>2 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>70K Sodium poly acrylate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>2 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>130K Sodium poly acrylate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>2 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>300K Sodium poly acrylate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>2 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>700K Sodium poly acrylate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>2 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>1 Million Sodium poly acrylate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>2 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

### Sensitisation
Not available.

### Mutagenicity
Not available.

### Carcinogenicity
Not available.

### Reproductive toxicity
Not available.

### Teratogenicity
Not available.

### Specific target organ toxicity (single exposure)
Not available.
Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on likely routes of exposure
Nominal 1K: Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 3K: Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 7K: Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 13K: Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 30K: Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 70K: Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 130K: Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 300K: Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 700K: Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 1 Million: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact
Nominal 1K: Causes serious eye irritation.
Nominal 3K: Causes serious eye irritation.
Nominal 7K: Causes serious eye irritation.
Nominal 13K: Causes serious eye irritation.
Nominal 30K: Causes serious eye irritation.
Nominal 70K: Causes serious eye irritation.
Nominal 130K: Causes serious eye irritation.
Nominal 300K: Causes serious eye irritation.
Nominal 700K: Causes serious eye irritation.
Nominal 1 Million: Causes serious eye irritation.

Inhalation
Nominal 1K: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 3K: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 7K: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 13K: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 30K: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 70K: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 130K: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 300K: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 700K: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 1 Million: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
### Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>Nominal 1K</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nominal 3K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 7K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 13K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 30K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 70K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 130K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 300K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 700K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 1 Million</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>Nominal 1K</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nominal 3K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 7K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 13K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 30K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 70K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 130K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 300K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 700K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Nominal 1 Million</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Symptoms related to the physical, chemical and toxicological characteristics**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Nominal 1K</th>
<th>Adverse symptoms may include the following: pain or irritation, watering, redness</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nominal 3K</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td></td>
<td>Nominal 7K</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td></td>
<td>Nominal 13K</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td></td>
<td>Nominal 30K</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td></td>
<td>Nominal 70K</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td></td>
<td>Nominal 130K</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td></td>
<td>Nominal 300K</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td></td>
<td>Nominal 700K</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td></td>
<td>Nominal 1 Million</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

**Inhalation**
- Nominal 1K: Adverse symptoms may include the following: respiratory tract irritation, coughing
- Nominal 3K: Adverse symptoms may include the following: respiratory tract irritation, coughing
- Nominal 7K: Adverse symptoms may include the following: respiratory tract irritation, coughing
- Nominal 13K: Adverse symptoms may include the following: respiratory tract irritation, coughing
- Nominal 30K: Adverse symptoms may include the following: respiratory tract irritation, coughing
- Nominal 70K: Adverse symptoms may include the following: respiratory tract irritation, coughing
- Nominal 130K: Adverse symptoms may include the following: respiratory tract irritation, coughing
- Nominal 300K: Adverse symptoms may include the following: respiratory tract irritation, coughing
- Nominal 700K: Adverse symptoms may include the following: respiratory tract irritation, coughing
- Nominal 1 Million: Adverse symptoms may include the following: respiratory tract irritation, coughing

**Skin contact**
- Nominal 1K: No specific data.
- Nominal 3K: No specific data.
- Nominal 7K: No specific data.
- Nominal 13K: No specific data.
- Nominal 30K: No specific data.
- Nominal 70K: No specific data.
- Nominal 130K: No specific data.
- Nominal 300K: No specific data.
- Nominal 700K: No specific data.
- Nominal 1 Million: No specific data.

**Ingestion**
- Nominal 1K: No specific data.
- Nominal 3K: No specific data.
- Nominal 7K: No specific data.
- Nominal 13K: No specific data.
- Nominal 30K: No specific data.
- Nominal 70K: No specific data.
- Nominal 130K: No specific data.
- Nominal 300K: No specific data.
- Nominal 700K: No specific data.
- Nominal 1 Million: No specific data.

*Delayed and immediate effects as well as chronic effects from short and long-term exposure*

**Short term exposure**
- Potential immediate effects: Not available.
- Potential delayed effects: Not available.

**Long term exposure**
- Potential immediate effects: Not available.
- Potential delayed effects: Not available.
Section 11. Toxicological information

Potential chronic health effects

Not available.

General

Nominal 1K  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Nominal 3K  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Nominal 7K  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Nominal 13K  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Nominal 30K  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Nominal 70K  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Nominal 130K  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Nominal 300K  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Nominal 700K  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Nominal 1 Million  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity

Nominal 1K  
No known significant effects or critical hazards.

Nominal 3K  
No known significant effects or critical hazards.

Nominal 7K  
No known significant effects or critical hazards.

Nominal 13K  
No known significant effects or critical hazards.

Nominal 30K  
No known significant effects or critical hazards.

Nominal 70K  
No known significant effects or critical hazards.

Nominal 130K  
No known significant effects or critical hazards.

Nominal 300K  
No known significant effects or critical hazards.

Nominal 700K  
No known significant effects or critical hazards.

Nominal 1 Million  
No known significant effects or critical hazards.

Mutagenicity

Nominal 1K  
No known significant effects or critical hazards.

Nominal 3K  
No known significant effects or critical hazards.

Nominal 7K  
No known significant effects or critical hazards.

Nominal 13K  
No known significant effects or critical hazards.

Nominal 30K  
No known significant effects or critical hazards.

Nominal 70K  
No known significant effects or critical hazards.

Nominal 130K  
No known significant effects or critical hazards.

Nominal 300K  
No known significant effects or critical hazards.

Nominal 700K  
No known significant effects or critical hazards.

Nominal 1 Million  
No known significant effects or critical hazards.

Teratogenicity

Nominal 1K  
No known significant effects or critical hazards.

Nominal 3K  
No known significant effects or critical hazards.

Nominal 7K  
No known significant effects or critical hazards.

Nominal 13K  
No known significant effects or critical hazards.

Nominal 30K  
No known significant effects or critical hazards.

Nominal 70K  
No known significant effects or critical hazards.

Nominal 130K  
No known significant effects or critical hazards.

Nominal 300K  
No known significant effects or critical hazards.

Nominal 700K  
No known significant effects or critical hazards.

Nominal 1 Million  
No known significant effects or critical hazards.

Developmental effects

Nominal 1K  
No known significant effects or critical hazards.

Nominal 3K  
No known significant effects or critical hazards.

Nominal 7K  
No known significant effects or critical hazards.

Nominal 13K  
No known significant effects or critical hazards.

Nominal 30K  
No known significant effects or critical hazards.

Nominal 70K  
No known significant effects or critical hazards.

Nominal 130K  
No known significant effects or critical hazards.

Nominal 300K  
No known significant effects or critical hazards.

Nominal 700K  
No known significant effects or critical hazards.

Nominal 1 Million  
No known significant effects or critical hazards.
Section 11. Toxicological information

Fertility effects

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>1K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>3K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>7K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>13K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>30K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>70K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>130K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>300K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>700K</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>1 Million</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Numerical measures of toxicity

Acute toxicity estimates
Not available.

Section 12. Ecological information

Toxicity
Not available.

Persistence and degradability
Not available.

Bioaccumulative potential
Not available.

Mobility in soil

| Soil/water partition coefficient (Koc) | Not available. |

Other adverse effects
No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Section 14. Transport information

**ADG / IMDG / IATA**: Not regulated as Dangerous Goods according to the ADG Code.

**Special precautions for user**: Transport within user's premises: 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.

**Transport in bulk according to Annex II of Marpol and the IBC Code**: Not available.

Section 15. Regulatory information

**Standard Uniform Schedule of Medicine and Poisons**
Not regulated.

**Model Work Health and Safety Regulations - Scheduled Substances**
No listed substance

**International regulations**

- **Chemical Weapon Convention List Schedules I, II & III Chemicals**
  Not listed.

- **Montreal Protocol (Annexes A, B, C, E)**
  Not listed.

- **Stockholm Convention on Persistent Organic Pollutants**
  Not listed.

- **Rotterdam Convention on Prior Informed Consent (PIC)**
  Not listed.

- **UNECE Aarhus Protocol on POPs and Heavy Metals**
  Not listed.

**Inventory list**

- **Australia**: All components are listed or exempted.
- **Canada**: All components are listed or exempted.
- **China**: All components are listed or exempted.
- **Europe**: All components are listed or exempted.
- **Japan**: Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
- **Malaysia**: All components are listed or exempted.
- **New Zealand**: All components are listed or exempted.
- **Philippines**: All components are listed or exempted.
- **Republic of Korea**: All components are listed or exempted.
- **Taiwan**: All components are listed or exempted.
- **Thailand**: Not determined.
- **Turkey**: All components are listed or exempted.
- **United States**: All components are listed or exempted.
- **Viet Nam**: Not determined.

*Date of issue/Date of revision*: 21/11/2017  
*Date of previous issue*: 29/02/2016  
*Version*: 4
Section 16. Any other relevant information

History

Date of issue/Date of revision : 21/11/2017
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Version : 4

Key to abbreviations

- ADG = Australian Dangerous Goods
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- NOHSC = National Occupational Health and Safety Commission
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal 1K</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2A, H319</td>
<td></td>
</tr>
<tr>
<td>Nominal 3K</td>
<td>Calculation method</td>
</tr>
<tr>
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<td></td>
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<tr>
<td>Nominal 7K</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2A, H319</td>
<td></td>
</tr>
<tr>
<td>Nominal 13K</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2A, H319</td>
<td></td>
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<td>Nominal 30K</td>
<td>Calculation method</td>
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<td>Eye Irrit. 2A, H319</td>
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<tr>
<td>Nominal 70K</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2A, H319</td>
<td></td>
</tr>
<tr>
<td>Nominal 130K</td>
<td>Calculation method</td>
</tr>
<tr>
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</tr>
<tr>
<td>Nominal 300K</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2A, H319</td>
<td></td>
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<tr>
<td>Nominal 700K</td>
<td>Calculation method</td>
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<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2A, H319</td>
<td></td>
</tr>
</tbody>
</table>

References : Not available.

✔ Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.