SAFETY DATA SHEET

APCI Chemical Kit, Part Number G1947-60600

Section 1. Identification

Product identifier : APCI Chemical Kit, Part Number G1947-60600
Part no. (chemical kit) : G1947-60600
Part no. : APCI/APPI Tuning mix, G2432A, G2432-60001
: ES/APCI Positive Ion Performance Standard, G1946-85004

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

Material uses : Reagents and Standards for Analytical Chemistry Laboratory Use
APCI/APPI Tuning mix : A 100 mL. container (For R&D Use Only)
ES/APCI Positive Ion Performance Standard

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

APCI/APPI Tuning mix

H225 FLAMMABLE LIQUIDS - Category 2
H302 ACUTE TOXICITY (oral) - Category 4
H311 ACUTE TOXICITY (dermal) - Category 3
H331 ACUTE TOXICITY (inhalation) - Category 3
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
H351 CARCINOGENICITY - Category 2
H370 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
H373 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

ES/APCI Positive Ion Performance Standard

H225 FLAMMABLE LIQUIDS - Category 2
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

GHS label elements

Hazard pictograms : APCI/APPI Tuning mix
ES/APCI Positive Ion Performance Standard
### Section 2. Hazard(s) identification

<table>
<thead>
<tr>
<th>Signal word</th>
<th>APCI/APPI Tuning mix</th>
<th>DANGER</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES/APCI Positive Ion Performance Standard</td>
<td>APCI/APPI Tuning mix</td>
<td>DANGER</td>
</tr>
</tbody>
</table>

#### Hazard statements

<table>
<thead>
<tr>
<th>APCI/APPI Tuning mix</th>
<th>H225 - Highly flammable liquid and vapour.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H311 + H331 - Toxic in contact with skin or if inhaled.</td>
</tr>
<tr>
<td></td>
<td>H302 - Harmful if swallowed.</td>
</tr>
<tr>
<td></td>
<td>H319 - Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td>H351 - Suspected of causing cancer.</td>
</tr>
<tr>
<td></td>
<td>H370 - Causes damage to organs.</td>
</tr>
<tr>
<td></td>
<td>H373 - May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H319 - Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td>H336 - May cause drowsiness or dizziness.</td>
</tr>
</tbody>
</table>

#### Precautionary statements

##### Prevention

<table>
<thead>
<tr>
<th>APCI/APPI Tuning mix</th>
<th>P201 - Obtain special instructions before use.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P202 - Do not handle until all safety precautions have been read and understood.</td>
</tr>
<tr>
<td></td>
<td>P281 - Use personal protective equipment as required.</td>
</tr>
<tr>
<td></td>
<td>P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.</td>
</tr>
<tr>
<td></td>
<td>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</td>
</tr>
<tr>
<td></td>
<td>P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.</td>
</tr>
<tr>
<td></td>
<td>P242 - Use only non-sparking tools.</td>
</tr>
<tr>
<td></td>
<td>P243 - Take precautionary measures against static discharge.</td>
</tr>
<tr>
<td></td>
<td>P233 - Keep container tightly closed.</td>
</tr>
<tr>
<td></td>
<td>P271 - Use only outdoors or in a well-ventilated area.</td>
</tr>
<tr>
<td></td>
<td>P260 - Do not breathe vapour.</td>
</tr>
<tr>
<td></td>
<td>P270 - Do not eat, drink or smoke when using this product.</td>
</tr>
<tr>
<td></td>
<td>P264 - Wash hands thoroughly after handling.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</td>
</tr>
<tr>
<td></td>
<td>P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.</td>
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</tr>
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<td></td>
<td>P233 - Keep container tightly closed.</td>
</tr>
<tr>
<td></td>
<td>P271 - Use only outdoors or in a well-ventilated area.</td>
</tr>
<tr>
<td></td>
<td>P261 - Avoid breathing vapour.</td>
</tr>
<tr>
<td></td>
<td>P264 - Wash hands thoroughly after handling.</td>
</tr>
</tbody>
</table>

##### Response

<table>
<thead>
<tr>
<th>APCI/APPI Tuning mix</th>
<th>P314 - Get medical attention if you feel unwell.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P307 + P311 - IF exposed: Call a POISON CENTER or physician.</td>
</tr>
<tr>
<td></td>
<td>P304 + P340 + P311 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician.</td>
</tr>
<tr>
<td></td>
<td>P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.</td>
</tr>
<tr>
<td></td>
<td>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</td>
</tr>
<tr>
<td></td>
<td>P302 + P352 + P312 - IF ON SKIN: Wash with plenty of soap and water.</td>
</tr>
</tbody>
</table>
Section 2. Hazard(s) identification

ES/APCI Positive Ion Performance Standard

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.

P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

APCI/APPI Tuning mix

P405 - Store locked up.
P403 - Store in a well-ventilated place.
P235 - Keep cool.

ES/APCI Positive Ion Performance Standard

P405 - Store locked up.
P403 - Store in a well-ventilated place.
P235 - Keep cool.

Disposal

APCI/APPI Tuning mix

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

ES/APCI Positive Ion Performance Standard

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

Additional warning phrases

APCI/APPI Tuning mix

Not applicable.

ES/APCI Positive Ion Performance Standard

Not applicable.

Other hazards which do not result in classification

APCI/APPI Tuning mix

None known.

ES/APCI Positive Ion Performance Standard

None known.

Section 3. Composition and ingredient information

Substance/mixture

APCI/APPI Tuning mix

Mixture

ES/APCI Positive Ion Performance Standard

Mixture

CAS number/other identifiers

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>APCI/APPI Tuning mix</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetonitrile</td>
<td>≥60 - ≤75</td>
<td>75-05-8</td>
</tr>
<tr>
<td>Methanol</td>
<td>≥10 - ≤16</td>
<td>67-56-1</td>
</tr>
<tr>
<td>Acetone</td>
<td>≤5</td>
<td>67-64-1</td>
</tr>
<tr>
<td>Trichloromethane</td>
<td>≤1.9</td>
<td>67-66-3</td>
</tr>
<tr>
<td>ES/APCI Positive Ion Performance Standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>≥30 - ≤60</td>
<td>67-63-0</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

<table>
<thead>
<tr>
<th>Description of necessary first aid measures</th>
<th>APCI/APPI Tuning mix</th>
<th>ES/APCI Positive Ion Performance Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>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. If necessary, call a poison center or physician.</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician.</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.</td>
<td>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.</td>
</tr>
</tbody>
</table>
Section 4. First aid measures

Ingestion

**APCI/APPI Tuning mix**

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 necessary, call a poison center or physician. 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.

**ES/APCI Positive Ion Performance Standard**

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 necessary, call a poison center or physician. 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**

- **APCI/APPI Tuning mix**
  - Causes serious eye irritation.
- **ES/APCI Positive Ion Performance Standard**
  - Causes serious eye irritation.

**Inhalation**

- **APCI/APPI Tuning mix**
  - Toxic if inhaled.
  - Can cause central nervous system (CNS) depression.
  - May cause drowsiness or dizziness.
- **ES/APCI Positive Ion Performance Standard**
  - Toxic if inhaled.
  - Can cause central nervous system (CNS) depression.
  - May cause drowsiness or dizziness.

**Skin contact**

- **APCI/APPI Tuning mix**
  - Toxic in contact with skin.
  - No known significant effects or critical hazards.
- **ES/APCI Positive Ion Performance Standard**
  - Toxic in contact with skin.
  - No known significant effects or critical hazards.

**Ingestion**

- **APCI/APPI Tuning mix**
  - Harmful if swallowed.
  - Can cause central nervous system (CNS) depression.
- **ES/APCI Positive Ion Performance Standard**
  - Harmful if swallowed.
  - Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

**Eye contact**

- **APCI/APPI Tuning mix**
  - Adverse symptoms may include the following:
    - pain or irritation
    - watering
    - redness
- **ES/APCI Positive Ion Performance Standard**
  - Adverse symptoms may include the following:
    - pain or irritation
    - watering
    - redness
Section 4. First aid measures

**Inhalation**
- **APCI/APPI Tuning mix**
- **ES/APCI Positive Ion Performance Standard**

No specific data.

Adverse symptoms may include the following:
- Nausea or vomiting
- Headache
- Drowsiness/fatigue
- Dizziness/vertigo
- Unconsciousness

**Skin contact**
- **APCI/APPI Tuning mix**
- **ES/APCI Positive Ion Performance Standard**

No specific data.

**Ingestion**
- **APCI/APPI Tuning mix**
- **ES/APCI Positive Ion Performance Standard**

No specific data.

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

**Notes to physician**
- **APCI/APPI Tuning mix**
- **ES/APCI Positive Ion Performance Standard**

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**
- **APCI/APPI Tuning mix**
- **ES/APCI Positive Ion Performance Standard**

No specific treatment.

**Protection of first-aiders**
- **APCI/APPI Tuning mix**
- **ES/APCI Positive Ion Performance Standard**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**See toxicological information (Section 11)**

Section 5. Firefighting measures

**Extinguishing media**

**Suitable extinguishing media**
- **APCI/APPI Tuning mix**
- **ES/APCI Positive Ion Performance Standard**

Use dry chemical, CO₂, water spray (fog) or foam.

**Unsuitable extinguishing media**
- **APCI/APPI Tuning mix**
- **ES/APCI Positive Ion Performance Standard**

Do not use water jet.

**Specific hazards arising from the chemical**
- **APCI/APPI Tuning mix**

Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance.
Section 5. Firefighting measures

ES/APCI Positive Ion Performance Standard

Hazardous thermal decomposition products

APCI/APPI Tuning mix

Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide
- nitrogen oxides
- halogenated compounds
- carbonyl halides
- cyanides
- Formaldehyde.

ES/APCI Positive Ion Performance Standard

Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide

Special protective actions for fire-fighters

APCI/APPI Tuning mix

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.

ES/APCI Positive Ion Performance Standard

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

APCI/APPI Tuning mix

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

ES/APCI Positive Ion Performance Standard

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

Hazchem code

APCI/APPI Tuning mix

•3YE

ES/APCI Positive Ion Performance Standard

•2YE

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

APCI/APPI Tuning mix

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.

ES/APCI Positive Ion Performance Standard

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.
Section 6. Accidental release measures

Environmental precautions: APCI/APPI Tuning mix
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). ES/APCI Positive Ion Performance Standard
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

For emergency responders: APCI/APPI Tuning mix
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".

ES/APCI Positive Ion Performance Standard
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".

For non-emergency personnel: APCI/APPI Tuning mix
Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

ES/APCI Positive Ion Performance Standard
Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling
Protective measures: APCI/APPI Tuning mix
Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be
## Section 7. Handling and storage

<table>
<thead>
<tr>
<th>Advice on general occupational hygiene</th>
<th>ES/APCI Positive Ion Performance Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conditions for safe storage, including any incompatibilities</th>
<th>ES/APCI Positive Ion Performance Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>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. Store locked up. 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.</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.</td>
</tr>
</tbody>
</table>
# Section 8. Exposure controls and personal protection

## Control parameters

### Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>APCI/APPI Tuning mix Acetonitrile</td>
<td>Safe Work Australia (Australia, 1/2014). Absorbed through skin. STEL: 101 mg/m³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 67 mg/m³ 8 hours. TWA: 40 ppm 8 hours.</td>
</tr>
<tr>
<td>Methanol</td>
<td>Safe Work Australia (Australia, 1/2014). Absorbed through skin. STEL: 328 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 262 mg/m³ 8 hours. TWA: 200 ppm 8 hours.</td>
</tr>
<tr>
<td>Acetone</td>
<td>Safe Work Australia (Australia, 1/2014). Absorbed through skin. STEL: 2375 mg/m³ 15 minutes. STEL: 1000 ppm 15 minutes. TWA: 1185 mg/m³ 8 hours. TWA: 500 ppm 8 hours.</td>
</tr>
<tr>
<td>Trichloromethane</td>
<td>Safe Work Australia (Australia, 1/2014). Absorbed through skin. TWA: 10 mg/m³ 8 hours. TWA: 2 ppm 8 hours.</td>
</tr>
<tr>
<td>ES/APCI Positive Ion Performance Standard Propan-2-ol</td>
<td>Safe Work Australia (Australia, 1/2014). STEL: 1230 mg/m³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 983 mg/m³ 8 hours. TWA: 400 ppm 8 hours.</td>
</tr>
</tbody>
</table>

### Appropriate engineering controls

- Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Environmental exposure controls

- 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
Section 8. Exposure controls and personal 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.

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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>APCI/APPI Tuning mix</th>
<th>ES/APCI Positive Ion Performance Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid.</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Ether. [Light]</td>
<td>Colourless.</td>
</tr>
<tr>
<td>Odour</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>70 ppm</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point</td>
<td>-45°C (-49°F)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>81.6°C (178.9°F)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Closed cup: 12.8°C (55°F)</td>
<td>Closed cup: -18 to 23°C (-0.4 to 73.4°F)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>5.79 (butyl acetate = 1)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Lower and upper explosive (flammable) limits</td>
<td>Lower: 4.4%</td>
<td>Upper: 16%</td>
</tr>
<tr>
<td></td>
<td>ES/APCI Positive Ion Performance Standard</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties

Vapour pressure: APCI/APPI Tuning mix 11.6 kPa (87 mm Hg) [room temperature]  
ES/APCI Positive Ion Performance Standard Not available.

Vapour density: APCI/APPI Tuning mix 1.42 [Air = 1]  
ES/APCI Positive Ion Performance Standard Not available.

Relative density: APCI/APPI Tuning mix Not available.  
ES/APCI Positive Ion Performance Standard Not available.

Solubility: APCI/APPI Tuning mix Easily soluble in the following materials: cold water and hot water.  
ES/APCI Positive Ion Performance Standard Soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water: APCI/APPI Tuning mix -0.34  
ES/APCI Positive Ion Performance Standard Not available.

Auto-ignition temperature: APCI/APPI Tuning mix 524°C (975.2°F)  
ES/APCI Positive Ion Performance Standard Not available.

Decomposition temperature: APCI/APPI Tuning mix Not available.  
ES/APCI Positive Ion Performance Standard Not available.

Viscosity: APCI/APPI Tuning mix Not available.  
ES/APCI Positive Ion Performance Standard Not available.

Section 10. Stability and reactivity

Reactivity: APCI/APPI Tuning mix No specific test data related to reactivity available for this product or its ingredients.  
ES/APCI Positive Ion Performance Standard No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: APCI/APPI Tuning mix The product is stable.  
ES/APCI Positive Ion Performance Standard The product is stable.

Possibility of hazardous reactions: APCI/APPI Tuning mix Under normal conditions of storage and use, hazardous reactions will not occur.  
ES/APCI Positive Ion Performance Standard Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: APCI/APPI Tuning mix Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.  
ES/APCI Positive Ion Performance Standard Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials: APCI/APPI Tuning mix Reactive or incompatible with the following materials: oxidizing materials  
ES/APCI Positive Ion Performance Standard Reactive or incompatible with the following materials: oxidizing materials
Section 10. Stability and reactivity

Hazardous decomposition products: APCI/APPI Tuning mix - Under normal conditions of storage and use, hazardous decomposition products should not be produced.
ES/APCI Positive Ion Performance Standard - Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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>Acetonitrile</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>17100 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2460 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Methanol</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>145000 ppm</td>
<td>1 hours</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>64000 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>15800 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>5600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Acetone</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>5800 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Trichloromethane</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>47702 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;20 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>300 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>ES/APCI Positive Ion Performance Standard</td>
<td>Propan-2-ol</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>12800 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>5000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetonitrile</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 microliters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Methanol</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>40 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 20 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Acetone</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 microliters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 20 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>395 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Trichloromethane</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 20 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>ES/APCI Positive Ion Performance Standard</td>
<td>Propan-2-ol</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitisation

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Section 11. Toxicological information

Not available.

Mutagenicity
Conclusion/Summary: Not available.

Carcinogenicity
Conclusion/Summary: Not available.

Reproductive toxicity
Conclusion/Summary: Not available.

Teratogenicity
Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>Category 1</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
<tr>
<td>Acetone</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects</td>
</tr>
<tr>
<td>ES/APCI Positive Ion Performance Standard</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects</td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichloromethane</td>
<td>Category 1</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Aspiration hazard
Not available.

Information on likely routes of exposure
Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact
- APCI/APPI Tuning mix: Causes serious eye irritation. (ES/APCI Positive Ion Performance Standard)

Inhalation
- APCI/APPI Tuning mix: Toxic if inhaled. (ES/APCI Positive Ion Performance Standard)
  - Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact
- APCI/APPI Tuning mix: Toxic in contact with skin. (ES/APCI Positive Ion Performance Standard)
  - No known significant effects or critical hazards.

Ingestion
- APCI/APPI Tuning mix: Harmful if swallowed. (ES/APCI Positive Ion Performance Standard)
  - Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
- APCI/APPI Tuning mix: Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness
  - (ES/APCI Positive Ion Performance Standard)
  - Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness

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Inhalation
- APCI/APPI Tuning mix
- ES/APCI Positive Ion Performance Standard
  - No specific data.
  - Adverse symptoms may include the following:
    - nausea or vomiting
    - headache
    - drowsiness/fatigue
    - dizziness/vertigo
    - unconsciousness

Skin contact
- APCI/APPI Tuning mix
- ES/APCI Positive Ion Performance Standard
  - No specific data.

Ingestion
- APCI/APPI Tuning mix
- ES/APCI Positive Ion Performance Standard
  - 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.

Potential chronic health effects
- General
  - APCI/APPI Tuning mix
  - ES/APCI Positive Ion Performance Standard
    - May cause damage to organs through prolonged or repeated exposure.
    - No known significant effects or critical hazards.

- Carcinogenicity
  - APCI/APPI Tuning mix
  - ES/APCI Positive Ion Performance Standard
    - Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
    - No known significant effects or critical hazards.

- Mutagenicity
  - APCI/APPI Tuning mix
  - ES/APCI Positive Ion Performance Standard
    - No known significant effects or critical hazards.

- Teratogenicity
  - APCI/APPI Tuning mix
  - ES/APCI Positive Ion Performance Standard
    - No known significant effects or critical hazards.

- Developmental effects
  - APCI/APPI Tuning mix
  - ES/APCI Positive Ion Performance Standard
    - No known significant effects or critical hazards.

- Fertility effects
  - APCI/APPI Tuning mix
  - ES/APCI Positive Ion Performance Standard
    - No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>APCI/APPI Tuning mix</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>331.6 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>852.7 mg/kg</td>
</tr>
<tr>
<td>Inhalation (vapours)</td>
<td>8.112 mg/l</td>
</tr>
</tbody>
</table>

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### Section 11. Toxicological information

#### Other information

**APCI/APPI Tuning mix**

Adverse symptoms may include the following:
- Headache
- Redness
- Blurred or double vision
- Eye contact can result in corneal damage or blindness.
- Repeated exposure may cause skin dryness or cracking.

**ES/APCI Positive Ion Performance Standard**

Adverse symptoms may include the following:
- Repeated exposure may cause skin dryness or cracking.

### Section 12. Ecological information

#### Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APCI/APPI Tuning mix</strong></td>
<td>Acetonitrile</td>
<td>Acute IC50 3685000 μg/l Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 3600000 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1000000 μg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 100000 μg/l Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 16000 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 2500000 μg/l Marine water</td>
<td>Crustaceans - Crangon crangon - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 3289 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 290 mg/l Fresh water</td>
<td>Fish - Danio rerio - Egg</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 9.96 mg/l Marine water</td>
<td>Algae - Ulva pertusa</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 20.565 mg/l Marine water</td>
<td>Algae - Ulva pertusa</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 6000000 μg/l Fresh water</td>
<td>Crustaceans - Gammarus pulex</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 10000 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 5600 ppm Fresh water</td>
<td>Fish - Poecilia reticulata</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 4.95 mg/l Marine water</td>
<td>Algae - Ulva pertusa</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 0.016 ml/L Fresh water</td>
<td>Crustaceans - Daphniidae</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 0.1 ml/L Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>21 days</td>
</tr>
<tr>
<td><strong>ES/APCI Positive Ion Performance Standard</strong></td>
<td>Propan-2-ol</td>
<td>Acute LC50 1400000 μg/l Marine water</td>
<td>Daphnia - Daphnia magna</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 4200 mg/l Fresh water</td>
<td>Crustaceans - Crangon crangon</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 29000 μg/l Fresh water</td>
<td>Fish - Rasbora heteromorpha</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

#### Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APCI/APPI Tuning mix</strong></td>
<td>Acetone</td>
<td>OECD 301B Ready Biodegradability - CO2 Evolution Test</td>
<td>95 % - Readily - 28 days</td>
<td>-</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>APCI/APPI Tuning mix</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetonitrile</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>Acetone</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>APCI/APPI Tuning mix</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetonitrile</td>
<td>-0.34</td>
<td>3</td>
<td>low</td>
</tr>
<tr>
<td>Methanol</td>
<td>-0.77</td>
<td>&lt;10</td>
<td>low</td>
</tr>
<tr>
<td>Acetone</td>
<td>-0.23</td>
<td>3</td>
<td>low</td>
</tr>
<tr>
<td>Trichloromethane</td>
<td>1.97</td>
<td>690</td>
<td>high</td>
</tr>
<tr>
<td>ES/APCI Positive Ion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Performance Standard</td>
<td>0.05</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

Mobility in soil

Soil/water partition coefficient (K<sub>OC</sub>): 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

<table>
<thead>
<tr>
<th>UN number</th>
<th>ADG</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN3316</td>
<td></td>
<td>UN316</td>
<td>UN316</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UN proper shipping name</th>
<th>CHEMICAL KIT</th>
<th>CHEMICAL KIT</th>
<th>Chemical kit</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Transport hazard class(es)</th>
<th>9</th>
<th>9</th>
<th>9</th>
</tr>
</thead>
</table>

Packing group: II

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Environmental hazards

No. | No. | No.
--- | --- | ---

Additional information

<table>
<thead>
<tr>
<th>ADG</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>: Hazchem code 2Z</td>
<td>: Emergency schedules F-A, S-P</td>
<td>: Quantity limitation</td>
</tr>
<tr>
<td>: Special provisions 251, 340</td>
<td>: Special provisions 251, 340</td>
<td></td>
</tr>
</tbody>
</table>

Special provisions 251, 340

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

6

Model Work Health and Safety Regulations - Scheduled Substances

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>APCI/APPI Tuning mix methanol</td>
<td>Restricted hazardous chemical [For spray painting if the substance contains more than 1% by volume]</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Australia</th>
<th>Canada</th>
<th>China</th>
<th>Europe</th>
<th>Japan</th>
<th>Malaysia</th>
<th>New Zealand</th>
</tr>
</thead>
</table>
Section 15. Regulatory information

Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.
United States : Not determined.
Viet Nam : Not determined.

Section 16. Any other relevant information

History
Date of issue/Date of revision : 12/02/2018
Date of previous issue : 22/01/2018
Version : 5.1
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><strong>APCI/APPI Tuning mix</strong></td>
<td></td>
</tr>
<tr>
<td>Flam. Liq. 2, H225</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Acute Tox. 4, H302</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Acute Tox. 3, H311</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Acute Tox. 3, H331</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2A, H319</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Carc. 2, H351</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT SE 1, H370</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT RE 2, H373</td>
<td>Calculation method</td>
</tr>
<tr>
<td><strong>ES/APCI Positive Ion Performance Standard</strong></td>
<td></td>
</tr>
<tr>
<td>Flam. Liq. 2, H225</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Eye Irrit. 2A, H319</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT SE 3, H336</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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