Section 1. Identification

This product is considered an article. This Material Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

Product name: SAMPLE KIT - D20, Part Number 94906539

Part No. (Chemical Kit): 94906539

Part No.: ID 1

2-Ethyl-1-Indanone in CDCl3

Validation date: 10/25/2013.

Material uses:

- Analytical chemistry.
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

Supplier/Manufacturer: Agilent Technologies, Inc.

Logistics Center - Americas
500 Ships Landing Way
New Castle, Delaware 19720
800-227-9770

In case of emergency: CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

OSHA/HCS status:

- ID 1

2-Ethyl-1-Indanone in CDCl3

Classification of the substance or mixture:

- ID 1

ACUTE TOXICITY (oral) - Category 3
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation and Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1

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Section 2. Hazards identification

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation and Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1

Autotest, no salt
TOXIC TO REPRODUCTION (Fertility) - Category 1B
TOXIC TO REPRODUCTION (Unborn child) - Category 1B

Ingredients of unknown toxicity:
ID 1
2-Ethyl-1-Indanone in CDCl3

Hazard statements:
ID 1
Danger
Toxic if swallowed.
Causes serious eye irritation.
Causes skin irritation.
Suspected of causing cancer.
May be fatal if swallowed and enters airways.
May cause respiratory irritation.
May cause drowsiness and dizziness.
May cause damage to organs through prolonged or repeated exposure.

2-Ethyl-1-Indanone in CDCl3
Harmful if swallowed.
Causes serious eye irritation.
Causes skin irritation.
Suspected of causing cancer.
May be fatal if swallowed and enters airways.
May cause respiratory irritation.
May cause drowsiness and dizziness.
May cause damage to organs through prolonged or repeated exposure.

Autotest, no salt
May damage fertility or the unborn child.

Precautionary statements:
Prevention:
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P281 - Use personal protective equipment as required.
P280 - Wear protective gloves. Wear eye or face protection.
P271 - Use only outdoors or in a well-ventilated area.
P260 - Do not breathe vapor.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash hands thoroughly after handling.

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Section 2. Hazards identification

Response:
- P314 - Get medical attention if you feel unwell.
- P308 + P313 - IF exposed or concerned: 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.
- P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.
- P302 + P352 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse.
- P332 + P313 - If skin irritation occurs: Get medical attention.
- 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: P405 - Store locked up.

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

Supplemental label elements:
- ID 1
  - None known.
  - 2-Ethyl-1-Indanone in CDCl3
    - None known.
  - Autotest, no salt
    - None known.

Hazards not otherwise classified:
- ID 1
  - None known.
  - 2-Ethyl-1-Indanone in CDCl3
    - None known.
  - Autotest, no salt
    - None known.

Section 3. Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>ID 1</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autotest, no salt</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2H)Chloroform</td>
<td>60 - 100</td>
<td>865-49-6</td>
</tr>
<tr>
<td>Iodomethane (13 C)</td>
<td>0.1 - 1</td>
<td>4227-95-6</td>
</tr>
<tr>
<td>Trimethyl phosphite</td>
<td>0.1 - 1</td>
<td>121-45-9</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2H)Chloroform</td>
<td>60 - 100</td>
<td>865-49-6</td>
</tr>
<tr>
<td>Autotest, no salt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methanol (13C)</td>
<td>&lt; 0.1</td>
<td>14742-26-8</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

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Section 4. First aid measures

Description of necessary first aid measures

**Eye contact**

- **ID 1**
  
  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.

  2-Ethyl-1-Indanone in CDCl3
  
  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.

  Autotest, no salt
  
  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 irritation occurs.

**Inhalation**

- **ID 1**
  
  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 necessary, call a poison center or physician. 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. 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.

  2-Ethyl-1-Indanone in CDCl3
  
  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 necessary, call a poison center or physician. 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. 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.

  Autotest, no salt
  
  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...
Section 4. First aid measures

Skin contact: ID 1
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

2-Ethyl-1-Indanone in CDCl3
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Autotest, no salt
Flush contaminated skin with plenty of 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. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: ID 1
Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. 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.

2-Ethyl-1-Indanone in CDCl3
Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. 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.

Autotest, no salt
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. 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. 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

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>ID 1</th>
<th>Causes serious eye irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autotest, no salt</td>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>ID 1</th>
<th>Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autotest, no salt</td>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>ID 1</th>
<th>Causes skin irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autotest, no salt</td>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>ID 1</th>
<th>Toxic if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autotest, no salt</td>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Over-exposure signs/symptoms**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>ID 1</th>
<th>Adverse symptoms may include the following: pain or irritation watering redness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autotest, no salt</td>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Adverse symptoms may include the following: pain or irritation watering redness</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>ID 1</th>
<th>Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache dizziness/fatigue dizziness/vertigo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autotest, no salt</td>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache dizziness/fatigue dizziness/vertigo</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>
## Section 4. First aid measures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Adverse symptoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Unconsciousness</td>
</tr>
<tr>
<td></td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td></td>
<td>Coughing</td>
</tr>
<tr>
<td></td>
<td>Nausea or vomiting</td>
</tr>
<tr>
<td></td>
<td>Headache</td>
</tr>
<tr>
<td></td>
<td>Drowsiness/fatigue</td>
</tr>
<tr>
<td></td>
<td>Dizziness/vertigo</td>
</tr>
<tr>
<td></td>
<td>Unconsciousness</td>
</tr>
<tr>
<td>Autotest, no salt</td>
<td>Adverse symptoms may include the following:</td>
</tr>
<tr>
<td></td>
<td>Reduced fetal weight</td>
</tr>
<tr>
<td></td>
<td>Increase in fetal deaths</td>
</tr>
<tr>
<td></td>
<td>Skeletal malformations</td>
</tr>
</tbody>
</table>

### Skin contact

<table>
<thead>
<tr>
<th>Substance</th>
<th>Adverse symptoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autotest, no salt</td>
<td>Adverse symptoms may include the following:</td>
</tr>
<tr>
<td></td>
<td>Irritation</td>
</tr>
<tr>
<td></td>
<td>Redness</td>
</tr>
</tbody>
</table>

### Ingestion

<table>
<thead>
<tr>
<th>Substance</th>
<th>Adverse symptoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autotest, no salt</td>
<td>Adverse symptoms may include the following:</td>
</tr>
<tr>
<td></td>
<td>Nausea or vomiting</td>
</tr>
</tbody>
</table>

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

**Notes to physician**: ID 1

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.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Adverse symptoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>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.</td>
</tr>
</tbody>
</table>

Autotest, no salt

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

### Specific treatments

<table>
<thead>
<tr>
<th>Substance</th>
<th>Specific treatments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autotest, no salt</td>
<td>No specific treatment.</td>
</tr>
</tbody>
</table>

### Protection of first-aiders

<table>
<thead>
<tr>
<th>Substance</th>
<th>Specific treatments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>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.</td>
</tr>
</tbody>
</table>

Date of issue: 10/25/2013
Section 4. First aid measures

Autotest, no salt

apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

| ID 1 | 2-Ethyl-1-Indanone in CDCl3 | Autotest, no salt | Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. |

Unsuitable extinguishing media

| ID 1 | 2-Ethyl-1-Indanone in CDCl3 | Autotest, no salt | None known. None known. None known. |

Specific hazards arising from the chemical

| ID 1 | 2-Ethyl-1-Indanone in CDCl3 | Autotest, no salt | In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. |

Hazardous thermal decomposition products

| Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds carbonyl halides |

Special protective actions for fire-fighters

| ID 1 | 2-Ethyl-1-Indanone in CDCl3 | Autotest, no salt | 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. 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. 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. |
Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

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

2-Ethyl-1-Indanone in CDCl3
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Autotest, no salt
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
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 spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders
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".

Environmental precautions

ID 1
Avoid dispersal of spilled 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).

2-Ethyl-1-Indanone in CDCl3
Avoid dispersal of spilled 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).

Autotest, no salt
Avoid dispersal of spilled 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 materials for containment and cleaning up

ID 1
Stop leak if without risk. Move containers from spill area. 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.

2-Ethyl-1-Indanone in CDCl3
Stop leak if without risk. Move containers from spill area. 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.

Autotest, no salt
Stop leak if without risk. Move containers from spill area. 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.

Date of issue: 10/25/2013
Section 7. Handling and storage

Precautions for safe handling

Protective measures : ID 1

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 vapor or mist. Do not swallow. 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. Empty containers retain product residue and can be hazardous. Do not reuse container.

2-Ethyl-1-Indanone in CDCl3

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 vapor or mist. Do not swallow. 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. Empty containers retain product residue and can be hazardous. Do not reuse container.

Autotest, no salt

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene:

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.

Conditions for safe storage, including any incompatibilities

: ID 1

Store in accordance with local regulations. 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. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Date of issue: 10/25/2013
Section 7. Handling and storage

2-Ethyl-1-Indanone in CDCl3
Store in accordance with local regulations. 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. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Autotest, no salt
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Section 8. Exposure controls/personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
</table>
| ID 1 (\(^2\)H)Chloroform | ACGIH TLV (United States, 3/2012).  
  TWA: 10 ppm 8 hours.  
  TWA: 49 mg/m³ 8 hours.  
  TWA: 2 ppm 8 hours.  
  TWA: 9.78 mg/m³ 8 hours.  
  NIOSH REL (United States, 6/2009).  
  STEL: 2 ppm 60 minutes.  
  STEL: 9.78 mg/m³ 60 minutes.  
  OSHA PEL (United States, 6/2010).  
  CEIL: 50 ppm  
  CEIL: 240 mg/m³ |
| Iodomethane (\(^13\)C) | ACGIH TLV (United States, 3/2012).  
  Absorbed through skin.  
  TWA: 2 ppm 8 hours.  
  Absorbed through skin.  
  TWA: 2 ppm 8 hours.  
  TWA: 10 mg/m³ 8 hours.  
  NIOSH REL (United States, 6/2009).  
  Absorbed through skin.  
  TWA: 2 ppm 10 hours.  
  TWA: 10 mg/m³ 10 hours.  
  OSHA PEL (United States, 6/2010).  
  Absorbed through skin.  
  TWA: 5 ppm 8 hours. |
Section 8. Exposure controls/personal protection

Trimethyl phosphite

TWA: 28 mg/m³ 8 hours.
ACGIH TLV (United States, 3/2012).
TWA: 2 ppm 8 hours.
TWA: 10 mg/m³ 8 hours.
TWA: 2 ppm 8 hours.
TWA: 10 mg/m³ 8 hours.
NIOSH REL (United States, 1/2013).
TWA: 2 ppm 10 hours.
TWA: 10 mg/m³ 10 hours.

2-Ethyl-1-Indanone in CDCl₃
(²H)Chloroform

ACGIH TLV (United States, 3/2012).
TWA: 10 ppm 8 hours.
TWA: 49 mg/m³ 8 hours.
TWA: 2 ppm 8 hours.
TWA: 9.78 mg/m³ 8 hours.
NIOSH REL (United States, 6/2009).
STEL: 2 ppm 60 minutes.
STEL: 9.78 mg/m³ 60 minutes.
OSHA PEL (United States, 6/2010).
CEIL: 50 ppm
CEIL: 240 mg/m³

Autotest, no salt
Methanol (¹³C)

ACGIH TLV (United States, 3/2012).
Absorbed through skin.
TWA: 200 ppm 8 hours.
TWA: 262 mg/m³ 8 hours.
STEL: 250 ppm 15 minutes.
STEL: 328 mg/m³ 15 minutes.
Absorbed through skin.
TWA: 200 ppm 8 hours.
TWA: 260 mg/m³ 8 hours.
STEL: 250 ppm 15 minutes.
STEL: 325 mg/m³ 15 minutes.
NIOSH REL (United States, 6/2009).
Absorbed through skin.
TWA: 200 ppm 10 hours.
TWA: 260 mg/m³ 10 hours.
STEL: 250 ppm 15 minutes.
STEL: 325 mg/m³ 15 minutes.
OSHA PEL (United States, 6/2010).
TWA: 200 ppm 8 hours.
TWA: 260 mg/m³ 8 hours.

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.

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.

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Section 8. Exposure controls/personal protection

**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.

**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**: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

**Appearance**

**Physical state**: ID 1
- 2-Ethyl-1-Indanone in CDC13
  - Liquid.
- Autotest, no salt
  - Liquid.

**Color**: ID 1
- 2-Ethyl-1-Indanone in CDC13
  - Colorless.
- Autotest, no salt
  - Not available.

**Odor**: ID 1
- 2-Ethyl-1-Indanone in CDC13
  - Pleasant.-Sweet.
- Autotest, no salt
  - Not available.

**Odor threshold**: ID 1
- 2-Ethyl-1-Indanone in CDC13
  - Not available.
- Autotest, no salt
  - Not available.

**pH**: ID 1
- 2-Ethyl-1-Indanone in CDC13
  - Not available.
- Autotest, no salt
  - Not available.

**Melting point**: ID 1
- 2-Ethyl-1-Indanone in CDC13
  - -64°C (-83.2°F)
- Autotest, no salt
  - -63°C (-81.4°F)

**Boiling point**: ID 1
- 2-Ethyl-1-Indanone in CDC13
  - 60.9°C (141.6°F)
  - 60.5 to 61.5°C (140.9 to 142.7°F)
- Autotest, no salt
  - 101.1°C (214°F)
Section 9. Physical and chemical properties

Flash point: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt Not available.

Evaporation rate: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt Not available.

Flammability (solid, gas): ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt Not available.

Lower and upper explosive (flammable) limits: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt Not available.

Vapor pressure: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt Not available.

Vapor density: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt Not available.

Relative density: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt Not available.

Solubility: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt Very slightly soluble in the following materials: cold water and hot water.

Solubility in water: Not available.

Partition coefficient: n-octanol/water: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt Not available.

Auto-ignition temperature: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt Not available.

Decomposition temperature: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt Not available.

Viscosity: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt Not available.

Section 10. Stability and reactivity

Reactivity: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: ID 1 2-Ethyl-1-Indanone in CDCl3 Autotest, no salt The product is stable.
Section 10. Stability and reactivity

### Possibility of hazardous reactions
- **ID 1**
  - 2-Ethyl-1-Indanone in CDCl3
  - Autotest, no salt

### Conditions to avoid
- **ID 1**
  - 2-Ethyl-1-Indanone in CDCl3
  - Autotest, no salt

### Incompatible materials
- **ID 1**
  - 2-Ethyl-1-Indanone in CDCl3
  - Autotest, no salt

### Hazardous decomposition products
- **ID 1**
  - 2-Ethyl-1-Indanone in CDCl3
  - Autotest, no salt

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><strong>ID 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-H)Chloroform</td>
<td>LC50 Inhalation Vapor</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>Iodomethane (¹³ C)</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>1300 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>76 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Trimethyl phosphite</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>182000 mg/m³</td>
<td>1 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>933.8 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1350 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>LC50 Inhalation Vapor</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>Autotest, no salt</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methanol (¹³ C)</td>
<td>LC50 Inhalation Gas.</td>
<td>Rat</td>
<td>145000 ppm</td>
<td>1 hours</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Gas.</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>
</tbody>
</table>

#### Irritation/Corrosion

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Section 11. Toxicological information

<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>ID 1</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>Iodomethane ($^{13}$ C)</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rat</td>
<td>-</td>
<td>30 minutes 1 Grams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Human</td>
<td>-</td>
<td>10 minutes 1 Grams</td>
<td>-</td>
</tr>
<tr>
<td>Trimethyl phosphate</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>0.1 Milliliters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</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>Autotest, no salt</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Methanol ($^{13}$C)</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>
</tbody>
</table>

Sensitization
Not available.

Mutagenicity
Not available.

Carcinogenicity
Not available.

Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 1</td>
<td>-</td>
<td>2B</td>
<td>Reasonably anticipated to be a human carcinogen.</td>
</tr>
<tr>
<td>($^{2}$H)Chloroform</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iodomethane ($^{13}$ C)</td>
<td>-</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>($^{2}$H)Chloroform</td>
<td>2B</td>
<td>Reasonably anticipated to be a human carcinogen.</td>
</tr>
</tbody>
</table>

Reproductive toxicity
Not available.

Teratogenicity
Not available.

Specific target organ toxicity (single exposure)

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### Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 1 ((^2)H)Chloroform</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation and Narcotic effects</td>
</tr>
<tr>
<td>Iodomethane ((^{13})C)</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Trimethyl phosphite</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation and Narcotic effects</td>
</tr>
<tr>
<td>Autotest, no salt</td>
<td>Category 1</td>
<td>Not determined</td>
<td>central nervous system (CNS) Respiratory tract irritation</td>
</tr>
<tr>
<td>Methanol ((^{13})C)</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</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>ID 1 ((^2)H)Chloroform</td>
<td>Category 2</td>
<td>Not determined</td>
<td>kidneys and liver</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Category 2</td>
<td>Not determined</td>
<td>kidneys and liver</td>
</tr>
</tbody>
</table>

**Aspiration hazard**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 1 ((^2)H)Chloroform</td>
<td>ASPIRATION HAZARD - Category 1</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>ASPIRATION HAZARD - Category 1</td>
</tr>
</tbody>
</table>

**Information on the likely routes of exposure**

**Potential acute health effects**

**Eye contact**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 1</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Autotest, no salt</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Inhalation**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 1</td>
<td>Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</td>
</tr>
</tbody>
</table>

**Date of issue**: 10/25/2013
### Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>Autotest, no salt</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>ID 1</td>
<td>Toxic if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Causes skin irritation.</td>
<td></td>
</tr>
<tr>
<td>Autotest, no salt</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>Eye contact</td>
<td>ID 1</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
<td></td>
</tr>
<tr>
<td>Autotest, no salt</td>
<td>No specific data.</td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>ID 1</td>
<td>Adverse symptoms may include the following: respiratory tract irritation, coughing, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Adverse symptoms may include the following: respiratory tract irritation, coughing, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness</td>
<td></td>
</tr>
<tr>
<td>Autotest, no salt</td>
<td>Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations</td>
<td></td>
</tr>
<tr>
<td>Skin contact</td>
<td>ID 1</td>
<td>Adverse symptoms may include the following: irritation, redness</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Adverse symptoms may include the following: irritation, redness</td>
<td></td>
</tr>
<tr>
<td>Autotest, no salt</td>
<td>Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations</td>
<td></td>
</tr>
</tbody>
</table>

**Date of issue:** 10/25/2013
## Section 11. Toxicological information

### Ingestion
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Adverse symptoms may include the following: nausea or vomiting
- Autotest, no salt
- Adverse symptoms may include the following: reduced fetal weight

### Toxicological information

#### Delayed and immediate effects and also 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
Not available.

#### General:
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

#### Carcinogenicity
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

#### Mutagenicity
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

#### Teratogenicity
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

#### Developmental effects
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

#### Fertility effects
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

#### Numerical measures of toxicity

**Acute toxicity estimates**

**Potential immediate effects**
- Not available.

**Potential delayed effects**
- Not available.

**Potential chronic health effects**
Not available.

**Carcinogenicity**
- Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity**
- No known significant effects or critical hazards.

**Teratogenicity**
- No known significant effects or critical hazards.

**Developmental effects**
- No known significant effects or critical hazards.

**Fertility effects**
- No known significant effects or critical hazards.

**Ingestion**
- Adverse symptoms may include the following: nausea or vomiting
- Autotest, no salt
- Adverse symptoms may include the following: reduced fetal weight

### Ingestion

**Ingestion**
- Adverse symptoms may include the following: nausea or vomiting
- Autotest, no salt
- Adverse symptoms may include the following: reduced fetal weight

**Autotest, no salt**
- Adverse symptoms may include the following: nausea or vomiting
- Autotest, no salt
- Adverse symptoms may include the following: reduced fetal weight

### Developmental effects

**Potential chronic health effects**
Not available.

**General**
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

**Carcinogenicity**
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

**Mutagenicity**
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

**Teratogenicity**
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

**Developmental effects**
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

**Fertility effects**
- **ID 1**
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt
**Section 11. Toxicological information**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 1</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>294.2 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>50505.5 mg/kg</td>
</tr>
<tr>
<td>Inhalation (vapors)</td>
<td>130 mg/l</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>306.4 mg/kg</td>
</tr>
</tbody>
</table>

**Other information**

- ID 1
- 2-Ethyl-1-Indanone in CDCl3
- Autotest, no salt

**Section 12. Ecological information**

### Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
</table>
| ID 1
(²H)Chloroform         |        |         |          |
| Acute EC50 13.3 mg/l Fresh water | Algae - Chlamydomonas reinhardtii - Exponential growth phase | 72 hours |
| Acute LC50 81.5 mg/l Marine water | Crustaceans - Penaeus duorarum | 48 hours |
| Acute LC50 29000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| Acute LC50 13300 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| Chronic EC10 3.61 mg/l Fresh water | Algae - Chlamydomonas reinhardtii - Exponential growth phase | 72 hours |
| Chronic NOEC 6300 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| 2-Ethyl-1-Indanone in CDCl3
(²H)Chloroform         |        |         |          |
| Acute EC50 13.3 mg/l Fresh water | Algae - Chlamydomonas reinhardtii - Exponential growth phase | 72 hours |
| Acute LC50 81.5 mg/l Marine water | Crustaceans - Penaeus duorarum | 48 hours |
| Acute LC50 29000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| Acute LC50 13300 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| Chronic EC10 3.61 mg/l Fresh water | Algae - Chlamydomonas reinhardtii - Exponential growth phase | 72 hours |
| Chronic NOEC 6300 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| Autotest, no salt
Methanol (¹³C)        |        |         |          |
| Acute EC50 16.912 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| Acute LC50 2500000 µg/l Marine water | Crustaceans - Crangon crangon - Adult | 48 hours |
| Acute LC50 3289 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| Acute LC50 100000 µg/l Fresh water | Fish - Pimephales promelas - Neonate | 96 hours |
| Chronic NOEC 9.96 mg/l Marine water | Algae - Ulva pertusa | 96 hours |

**Persistence and degradability**

Not available.

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Section 12. Ecological information

**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>ID 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(H)Chloroform</td>
<td>1.97</td>
<td>690</td>
<td>high</td>
</tr>
<tr>
<td>Iodomethane (I&lt;sup&gt;3&lt;/sup&gt; C)</td>
<td>1.57</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Trimethyl phosphite</td>
<td>-0.73</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl&lt;sub&gt;3&lt;/sub&gt;</td>
<td>1.97</td>
<td>690</td>
<td>high</td>
</tr>
<tr>
<td>(H)Chloroform</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autotest, no salt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methanol (I&lt;sup&gt;3&lt;/sup&gt;C)</td>
<td>-0.77</td>
<td>&lt;10</td>
<td>low</td>
</tr>
</tbody>
</table>

**Mobility in soil**

- **Soil/water partition coefficient (K<sub>OC</sub>)**: Not available.

**Other adverse effects**

- ID 1
- 2-Ethyl-1-Indanone in CDCl<sub>3</sub>
- Autotest, no salt

No known significant effects or critical hazards.

Section 13. Disposal considerations

**Disposal methods**

The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

This Material Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

**Regulatory information**

**Additional information**

- **Remarks**
  De minimis quantities

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Section 14. Transport information

DOT / IMDG / IATA / : Not regulated.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) PAIR: Acetonitrile (\(^{15}\)N)
Commerce control list precursor: Trimethyl phosphate

United States inventory (TSCA 8b): Not determined.
Clean Water Act (CWA) 307: \(^{(2H)}\)Chloroform; Chromium(III) 4-oxopent-2-ene-2-olate; Acetonitrile (\(^{15}\)N)
Clean Water Act (CWA) 311: \(^{(2H)}\)Chloroform

Clean Air Act (CAA) 112 regulated toxic substances: \(^{(2H)}\)Chloroform

Clean Air Act  Section 112 (b) Hazardous Air Pollutants (HAPs): Listed

Clean Air Act Section 602 Class I Substances: Not listed
Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed
DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304

Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>EHS</th>
<th>SARA 302 TPQ</th>
<th>SARA 304 RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>(lbs)</td>
<td>(gallons)</td>
</tr>
<tr>
<td>ID 1 (^{(2H)})Chloroform</td>
<td>60 - 100</td>
<td>Yes.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3 (^{(2H)})Chloroform</td>
<td>60 - 100</td>
<td>Yes.</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Fire hazard</th>
<th>Sudden release of pressure</th>
<th>Reactive</th>
<th>Immediate (acute) health hazard</th>
<th>Delayed (chronic) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 1 (^{(2H)})Chloroform</td>
<td>60 - 100</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
<td>Yes.</td>
</tr>
<tr>
<td>Iodomethane (^{13}) C</td>
<td>0.1 - 1</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
<td>Yes.</td>
</tr>
<tr>
<td>Trimethyl phosphate</td>
<td>0.1 - 1</td>
<td>Yes.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
<td>No.</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3 (^{(2H)})Chloroform</td>
<td>60 - 100</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
<td>Yes.</td>
</tr>
<tr>
<td>Autotest, no salt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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# Section 15. Regulatory information

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Cancer</th>
<th>Reproductive</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 1 ((^{2}H))Chloroform</td>
<td>Yes.</td>
<td>Yes.</td>
<td>20 µg/day (ingestion)</td>
<td>No.</td>
</tr>
<tr>
<td>Iodomethane ((^{13}C))</td>
<td>Yes.</td>
<td>No.</td>
<td>40 µg/day (inhalation)</td>
<td>No.</td>
</tr>
<tr>
<td>2-Ethyl-1-Indanone in CDCl3</td>
<td>Yes.</td>
<td>Yes.</td>
<td>20 µg/day (ingestion)</td>
<td>No.</td>
</tr>
<tr>
<td>Autotest, no salt Methanol ((^{13}C))</td>
<td>No.</td>
<td>Yes.</td>
<td></td>
<td>No.</td>
</tr>
</tbody>
</table>

**State regulations**

- **Massachusetts**: The following components are listed: CHLOROFORM
- **New York**: The following components are listed: Chloroform; Methane, trichloro-
- **New Jersey**: The following components are listed: CHLOROFORM; METHANE, TRICHLORO-
- **Pennsylvania**: The following components are listed: METHANE, TRICHLORO-

**California Prop. 65**

**WARNING**: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**International regulations**

- **Australia inventory (AICS)**: Not determined.
- **China inventory (IECSC)**: Not determined.
- **Japan inventory**: Not determined.
- **Korea inventory**: Not determined.
- **Malaysia Inventory (EHS Register)**: Not determined.
- **New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
- **Philippines inventory (PICCS)**: Not determined.
- **Taiwan inventory (CSNN)**: Not determined.

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Section 15. Regulatory information

| Chemical Weapons Convention List Schedule I Chemicals | Not listed |
| Chemical Weapons Convention List Schedule II Chemicals | Not listed |
| Chemical Weapons Convention List Schedule III Chemicals | Not listed |

Section 16. Other information

History

| Date of issue       | 10/25/2013. |
| Date of previous issue | No previous validation. |
| Version            | 2 |

 SMTP Indicates information that has changed from previously issued version.

Notice to reader

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