

SAFETY DATA SHEET

SAMPLE KIT - D20, Part Number 94906539

Section 1. Identification

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

1.1 Product identifier

Product name	: SAMPLE KIT - D20, Part Number 94906539	
Part No. (Chemical Kit)	: 94906539	
Part No.	: ID 1	96812096
	2-Ethyl-1-Indanone in CDCl ₃	190185503
	Autotest, no salt	190185506
Validation date	: 12/20/2017	

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

Material uses	: Reagents and Standards for Analytical Chemistry Laboratory Use NMR	
	ID 1	860 µl
	2-Ethyl-1-Indanone in CDCl ₃	860 µl
	Autotest, no salt	860 µl

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770
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1.4 Emergency telephone number

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

2.1 Classification of the substance or mixture

OSHA/HCS status	:  1	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	2-Ethyl-1-Indanone in CDCl ₃	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Autotest, no salt	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

 1	
H302	ACUTE TOXICITY (oral) - Category 4
H331	ACUTE TOXICITY (inhalation) - Category 3
H315	SKIN IRRITATION - Category 2
H319	EYE IRRITATION - Category 2A
H351	CARCINOGENICITY - Category 2
H361	TOXIC TO REPRODUCTION (Unborn child) - Category 2
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Section 2. Hazards identification

H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 H372 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver) - Category 1

2-Ethyl-1-Indanone in CDCI3

H302 ACUTE TOXICITY (oral) - Category 4
 H331 ACUTE TOXICITY (inhalation) - Category 3
 H315 SKIN IRRITATION - Category 2
 H319 EYE IRRITATION - Category 2A
 H351 CARCINOGENICITY - Category 2
 H361 TOXIC TO REPRODUCTION (Unborn child) - Category 2
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 H372 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver) - Category 1

Autotest, no salt

H360 TOXIC TO REPRODUCTION (Fertility) - Category 1B
 H360 TOXIC TO REPRODUCTION (Unborn child) - Category 1B

Ingredients of unknown toxicity : 2-Ethyl-1-Indanone in CDCI3
 Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10%
 Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10%
 Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%

2.2 GHS label elements

Hazard pictograms

: 1



2-Ethyl-1-Indanone in CDCI3



Autotest, no salt



Signal word

: ID 1
 2-Ethyl-1-Indanone in CDCI3
 Autotest, no salt

Danger
 Danger
 Danger

Hazard statements

: 1

H331 - Toxic if inhaled.
 H302 - Harmful if swallowed.
 H319 - Causes serious eye irritation.
 H315 - Causes skin irritation.
 H361 - Suspected of damaging the unborn child.
 H351 - Suspected of causing cancer.
 H335 - May cause respiratory irritation.
 H336 - May cause drowsiness or dizziness.
 H372 - Causes damage to organs through

Section 2. Hazards identification

2-Ethyl-1-Indanone in CDCl₃ prolonged or repeated exposure. (kidneys, liver)
 H331 - Toxic if inhaled.
 H302 - Harmful if swallowed.
 H319 - Causes serious eye irritation.
 H315 - Causes skin irritation.
 H361 - Suspected of damaging the unborn child.
 H351 - Suspected of causing cancer.
 H335 - May cause respiratory irritation.
 H336 - May cause drowsiness or dizziness.
 H372 - Causes damage to organs through prolonged or repeated exposure. (kidneys, liver)
 Autotest, no salt H360 - May damage fertility or the unborn child.

Precautionary statements

Prevention

:  1

P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 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.

2-Ethyl-1-Indanone in CDCl₃

P264 - Wash hands thoroughly after handling.
 P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 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.

Autotest, no salt

P264 - Wash hands thoroughly after handling.
 P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.

Response

:  1

P314 - Get medical attention if you feel unwell.
 P308 + P313 - IF exposed or concerned: Get medical attention.
 P304 + P340 + P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician.
 P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
 P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it 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.

Section 2. Hazards identification

	2-Ethyl-1-Indanone in CDCI3	P337 + P313 - If eye irritation persists: Get medical attention. P314 - Get medical attention if you feel unwell. P308 + P313 - IF exposed or concerned: Get medical attention. P304 + P340 + P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it 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. P308 + P313 - IF exposed or concerned: Get medical attention.
Storage	Autotest, no salt : ID 1 2-Ethyl-1-Indanone in CDCI3 Autotest, no salt	P405 - Store locked up. P405 - Store locked up. P405 - Store locked up.
Disposal	: ID 1 2-Ethyl-1-Indanone in CDCI3 Autotest, no salt	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: ID 1 2-Ethyl-1-Indanone in CDCI3 Autotest, no salt	None known. None known. None known.
2.3 Other hazards		
Hazards not otherwise classified	: ID 1 2-Ethyl-1-Indanone in CDCI3 Autotest, no salt	None known. None known. 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.

Substance/mixture	: ID 1 2-Ethyl-1-Indanone in CDCI3 Autotest, no salt	Mixture (encapsulated in article) Mixture (encapsulated in article) Mixture (encapsulated in article)
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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
ID 1 (² H)Chloroform Iodomethane (¹³ C) Trimethyl phosphite	≥90 ≤1.5 ≤1.5	865-49-6 4227-95-6 121-45-9
2-Ethyl-1-Indanone in CDCI3 (² H)Chloroform	≥90	865-49-6
Autotest, no salt Methanol (¹³ C)	≤0.3	14742-26-8

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.

Section 4. First aid measures

4.1 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 CDCI3	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 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. 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 CDCI3	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

Section 4. First aid measures

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. 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. 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 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.

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.

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.

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.

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,

Autotest, no salt

Skin contact

: ID 1

2-Ethyl-1-Indanone in CDCI3

Autotest, no salt

Ingestion

:  1

Section 4. First aid measures

2-Ethyl-1-Indanone in CDCI3	belt or waistband. 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.
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. 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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: ID 1 2-Ethyl-1-Indanone in CDCI3 Autotest, no salt	Causes serious eye irritation. Causes serious eye irritation. No known significant effects or critical hazards.
Inhalation	: ID 1 2-Ethyl-1-Indanone in CDCI3 Autotest, no salt	Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. No known significant effects or critical hazards.
Skin contact	: ID 1 2-Ethyl-1-Indanone in CDCI3 Autotest, no salt	Causes skin irritation. Causes skin irritation. No known significant effects or critical hazards.
Ingestion	: <input checked="" type="checkbox"/> 1 2-Ethyl-1-Indanone in CDCI3 Autotest, no salt	Harmful if swallowed. Can cause central nervous system (CNS) depression. Harmful if swallowed. Can cause central nervous system (CNS) depression. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact

: ID 1

Adverse symptoms may include the following:
 pain or irritation
 watering
 redness

2-Ethyl-1-Indanone in CDCl₃

Adverse symptoms may include the following:
 pain or irritation
 watering
 redness

Autotest, no salt

No specific data.

Inhalation

: ID 1

Adverse symptoms may include the following:
 respiratory tract irritation
 coughing

2-Ethyl-1-Indanone in CDCl₃

nausea or vomiting
 headache
 drowsiness/fatigue
 dizziness/vertigo
 unconsciousness
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Autotest, no salt

Adverse symptoms may include the following:
 respiratory tract irritation
 coughing

Autotest, no salt

nausea or vomiting
 headache
 drowsiness/fatigue
 dizziness/vertigo
 unconsciousness
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Skin contact

: ID 1

Adverse symptoms may include the following:
 irritation

2-Ethyl-1-Indanone in CDCl₃

redness
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Autotest, no salt

Adverse symptoms may include the following:
 irritation
 redness
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Ingestion

: ID 1

Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

2-Ethyl-1-Indanone in CDCl₃

Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths

Section 4. First aid measures

Autotest, no salt	skeletal malformations Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
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4.3 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.
	2-Ethyl-1-Indanone in CDCl ₃	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	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: ID 1	No specific treatment.
	2-Ethyl-1-Indanone in CDCl ₃	No specific treatment.
	Autotest, no salt	No specific treatment.
Protection of first-aiders	: ID 1	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.
	2-Ethyl-1-Indanone in CDCl ₃	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.
	Autotest, no salt	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

5.1 Extinguishing media

Suitable extinguishing media	: ID 1	Use an extinguishing agent suitable for the surrounding fire.
	2-Ethyl-1-Indanone in CDCl ₃	Use an extinguishing agent suitable for the surrounding fire.
	Autotest, no salt	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: ID 1	None known.
	2-Ethyl-1-Indanone in CDCl ₃	None known.
	Autotest, no salt	None known.

Section 5. Fire-fighting measures

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: ID 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	2-Ethyl-1-Indanone in CDCl ₃	In a fire or if heated, a pressure increase will occur and the container may burst.
	Autotest, no salt	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: ID 1	Decomposition products may include the following materials:
	2-Ethyl-1-Indanone in CDCl ₃	carbon dioxide carbon monoxide phosphorus oxides halogenated compounds carbonyl halides
	Autotest, no salt	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds carbonyl halides No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters	: ID 1	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.
	2-Ethyl-1-Indanone in CDCl ₃	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.
	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.
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 CDCl ₃	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

6.1 Personal precautions, protective equipment and emergency procedures

Section 6. Accidental release measures

For non-emergency personnel	: ID 1	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.
	2-Ethyl-1-Indanone in CDCl ₃	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.
	Autotest, no salt	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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: ID 1	If specialized 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".
	2-Ethyl-1-Indanone in CDCl ₃	If specialized 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".
	Autotest, no salt	If specialized 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".
6.2 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 CDCl ₃	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).

6.3 Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Methods for 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.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures :  1

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 breathe vapor or mist. Do not ingest. 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. 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 breathe vapor or mist. Do not ingest. 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

Section 7. Handling and storage

<p>Advice on general occupational hygiene</p>	<p>: ID 1</p> <p>2-Ethyl-1-Indanone in CDCl₃</p> <p>Autotest, no salt</p>	<p>material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</p> <p>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.</p> <p>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.</p> <p>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.</p>
<p>7.2 Conditions for safe storage, including any incompatibilities</p>	<p>:  1</p> <p>2-Ethyl-1-Indanone in CDCl₃</p> <p>Autotest, no salt</p>	<p>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. See Section 10 for incompatible materials before handling or use.</p> <p>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. See Section 10 for incompatible materials before handling or use.</p> <p>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</p>

Section 7. Handling and storage

containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: ID 1 2-Ethyl-1-Indanone in CDCI3 Autotest, no salt	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: ID 1 2-Ethyl-1-Indanone in CDCI3 Autotest, no salt	Not applicable. Not applicable. Not applicable.

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.

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
ID 1 (² H)Chloroform	ACGIH TLV (United States, 3/2017). TWA: 10 ppm 8 hours. TWA: 49 mg/m ³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 2 ppm 8 hours. TWA: 9.78 mg/m ³ 8 hours. NIOSH REL (United States, 10/2016). STEL: 2 ppm 60 minutes. STEL: 9.78 mg/m ³ 60 minutes. OSHA PEL (United States, 6/2016). CEIL: 50 ppm CEIL: 240 mg/m ³
Iodomethane (¹³ C)	ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 2 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 2 ppm 8 hours. TWA: 10 mg/m ³ 8 hours. NIOSH REL (United States, 10/2016). Absorbed through skin. TWA: 2 ppm 10 hours. TWA: 10 mg/m ³ 10 hours. OSHA PEL (United States, 6/2016). Absorbed through skin. TWA: 5 ppm 8 hours. TWA: 28 mg/m ³ 8 hours.
Trimethyl phosphite	ACGIH TLV (United States, 3/2017). TWA: 2 ppm 8 hours. TWA: 10 mg/m ³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 2 ppm 8 hours. TWA: 10 mg/m ³ 8 hours. NIOSH REL (United States, 10/2016). TWA: 2 ppm 10 hours.

Section 8. Exposure controls/personal protection

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

TWA: 10 mg/m³ 10 hours.

ACGIH TLV (United States, 3/2017).

TWA: 10 ppm 8 hours.

TWA: 49 mg/m³ 8 hours.

OSHA PEL 1989 (United States, 3/1989).

TWA: 2 ppm 8 hours.

TWA: 9.78 mg/m³ 8 hours.

NIOSH REL (United States, 10/2016).

STEL: 2 ppm 60 minutes.

STEL: 9.78 mg/m³ 60 minutes.

OSHA PEL (United States, 6/2016).

CEIL: 50 ppm

CEIL: 240 mg/m³

Autotest, no salt
Methanol (¹³C)

ACGIH TLV (United States, 3/2017).

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.

OSHA PEL 1989 (United States, 3/1989).

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, 10/2016).

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, 6/2016).

TWA: 200 ppm 8 hours.

TWA: 260 mg/m³ 8 hours.

8.2 Exposure controls

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.

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.

Section 8. Exposure controls/personal protection

- 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** : 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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Liquid. Liquid. Liquid.
Color	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. Colorless. Not available.
Odor	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. Pleasant.-Sweet. Not available.
Odor threshold	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. Not available. Not available.
pH	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. Not available. Not available.
Melting point	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	-64°C (-83.2°F) -63°C (-81.4°F) 3.81°C (38.9°F)
Boiling point	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	60.9°C (141.6°F) 60.5 to 61.5°C (140.9 to 142.7°F) 101.1°C (214°F)
Flash point	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. Not available. Not available.
Evaporation rate	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. Not available. Not available.

Section 9. Physical and chemical properties

Flammability (solid, gas)	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not applicable. Not applicable. Not applicable.
Lower and upper explosive (flammable) limits	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. Not available. Not available.
Vapor pressure	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. 21.3 kPa (160 mm Hg) [room temperature] Not available.
Vapor density	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. 4.1 [Air = 1] Not available.
Relative density	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	1500 1.492 1.1 [(D ₂₀)]
Solubility	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Very slightly soluble in the following materials: cold water and hot water. Very slightly soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. Not available. Not available.
Auto-ignition temperature	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. Not available. Not available.
Decomposition temperature	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. Not available. Not available.
Viscosity	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Not available. Not available. Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

10.4 Conditions to avoid	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	No specific data. No specific data. No specific data.
10.5 Incompatible materials	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: ID 1 2-Ethyl-1-Indanone in CDCl ₃ Autotest, no salt	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ID 1 (² H)Chloroform	LC50 Inhalation Vapor	Rat	47702 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	300 mg/kg	-
Iodomethane (¹³ C)	LC50 Inhalation Vapor	Rat	1300 mg/m ³	4 hours
	LD50 Oral	Rat	76 mg/kg	-
Trimethyl phosphite	LC50 Inhalation Vapor	Rat	182000 mg/m ³	1 hours
	LD50 Dermal	Rabbit	933.8 mg/kg	-
	LD50 Oral	Rat	1350 mg/kg	-
2-Ethyl-1-Indanone in CDCl₃ (² H)Chloroform	LC50 Inhalation Vapor	Rat	47702 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	300 mg/kg	-
Autotest, no salt Methanol (¹³ C)	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
ID 1 (² H)Chloroform	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Iodomethane (¹³ C)	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rat	-	30 minutes 1 Grams	-
	Skin - Severe irritant	Rabbit	-	500 milligrams	-
Trimethyl phosphite	Eyes - Mild irritant	Rabbit	-	0.1 Milliliters	-
	Skin - Severe irritant	Rabbit	-	500 milligrams	-
2-Ethyl-1-Indanone in CDCl3 (² H)Chloroform	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
ID 1 (² H)Chloroform Iodomethane (¹³ C)	-	2B	Reasonably anticipated to be a human carcinogen.
	-	3	-
2-Ethyl-1-Indanone in CDCl3 (² H)Chloroform	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
ID 1 (² H)Chloroform	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Iodomethane (¹³ C)	Category 3	Not applicable.	Respiratory tract irritation
Trimethyl phosphite	Category 3	Not applicable.	Respiratory tract irritation
2-Ethyl-1-Indanone in CDCI3 (² H)Chloroform	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Autotest, no salt Methanol (¹³ C)	Category 1	Not determined	central nervous system (CNS)
	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ID 1 (² H)Chloroform	Category 1	Not determined	kidneys and liver
2-Ethyl-1-Indanone in CDCI3 (² H)Chloroform	Category 1	Not determined	kidneys and liver

Aspiration hazard

Not available.

Information on the likely routes of exposure

: ID 1

Routes of entry anticipated: Oral, Dermal, Inhalation.

2-Ethyl-1-Indanone in CDCI3

Routes of entry anticipated: Oral, Dermal, Inhalation.

Autotest, no salt

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact

: ID 1

Causes serious eye irritation.

2-Ethyl-1-Indanone in CDCI3

Causes serious eye irritation.

Autotest, no salt

No known significant effects or critical hazards.

Inhalation

: ID 1

Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

2-Ethyl-1-Indanone in CDCI3

Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Autotest, no salt

No known significant effects or critical hazards.

Skin contact

: ID 1

Causes skin irritation.

2-Ethyl-1-Indanone in CDCI3

Causes skin irritation.

Autotest, no salt

No known significant effects or critical hazards.

Section 11. Toxicological information

Ingestion	: ID 1	Harmful if swallowed. Can cause central nervous system (CNS) depression.
	2-Ethyl-1-Indanone in CDCl ₃	Harmful if swallowed. Can cause central nervous system (CNS) depression.
	Autotest, no salt	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: ID 1	Adverse symptoms may include the following: pain or irritation watering redness
	2-Ethyl-1-Indanone in CDCl ₃	Adverse symptoms may include the following: pain or irritation watering redness
	Autotest, no salt	No specific data.

Inhalation	: ID 1	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
	2-Ethyl-1-Indanone in CDCl ₃	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
	Autotest, no salt	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact	: ID 1	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
	2-Ethyl-1-Indanone in CDCl ₃	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
	Autotest, no salt	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Section 11. Toxicological information

Ingestion	: ID 1	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	2-Ethyl-1-Indanone in CDCl ₃	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	Autotest, no salt	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

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

General	: ID 1	Causes damage to organs through prolonged or repeated exposure.
	2-Ethyl-1-Indanone in CDCl ₃	Causes damage to organs through prolonged or repeated exposure.
	Autotest, no salt	No known significant effects or critical hazards.
Carcinogenicity	: ID 1	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
	2-Ethyl-1-Indanone in CDCl ₃	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
	Autotest, no salt	No known significant effects or critical hazards.
Mutagenicity	: ID 1	No known significant effects or critical hazards.
	2-Ethyl-1-Indanone in CDCl ₃	No known significant effects or critical hazards.
	Autotest, no salt	No known significant effects or critical hazards.
Teratogenicity	: ID 1	Suspected of damaging the unborn child.
	2-Ethyl-1-Indanone in CDCl ₃	Suspected of damaging the unborn child.
	Autotest, no salt	May damage the unborn child.
Developmental effects	: ID 1	No known significant effects or critical hazards.
	2-Ethyl-1-Indanone in CDCl ₃	No known significant effects or critical hazards.
	Autotest, no salt	No known significant effects or critical hazards.
Fertility effects	: ID 1	No known significant effects or critical hazards.
	2-Ethyl-1-Indanone in CDCl ₃	No known significant effects or critical hazards.
	Autotest, no salt	May damage fertility.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Route	ATE value
1D 1 Oral Dermal Inhalation (vapors)	477.3 mg/kg 50505.5 mg/kg 3.036 mg/l
2-Ethyl-1-Indanone in CDCl3 Oral Inhalation (vapors)	510.7 mg/kg 3.064 mg/l

Other information

: **1D 1**

2-Ethyl-1-Indanone in CDCl3

Autotest, no salt

Adverse symptoms may include the following:
jaundice, nausea or vomiting.

Adverse symptoms may include the following:
jaundice, nausea or vomiting.

Not available.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
1D 1 (2H)Chloroform	Acute EC50 13.3 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
	Acute EC50 2.803 mg/l Fresh water	Crustaceans - Cypris subglobosa	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
Iodomethane (13 C)	Chronic NOEC 1.8 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Acute LC50 1.19 ppm Fresh water	Fish - Cyprinus carpio	96 hours
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 EC50 2.803 mg/l Fresh water	Crustaceans - Cypris subglobosa	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
Autotest, no salt Methanol (13C)	Chronic NOEC 1.8 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	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 - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours	

Section 12. Ecological information

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
ID 1 (² H)Chloroform Iodomethane (¹³ C)	1.97 1.57	690 -	high low
2-Ethyl-1-Indanone in CDCl₃ (² H)Chloroform	1.97	690	high
Autotest, no salt Methanol (¹³ C)	-0.77	<10	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

12.5 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

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.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
ID 1 Chloroform; Methane, trichloro- Methyl iodide; Methane, iodo-	865-49-6 4227-95-6	Listed Listed	U044 U138
2-Ethyl-1-Indanone in CDCl₃ Chloroform; Methane, trichloro-	865-49-6	Listed	U044

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.

Section 13. Disposal considerations

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 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.

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

Additional information

Remarks: De minimis quantities

DOT Classification : **Reportable quantity** 15.33 lbs / 6.9596 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- U.S. Federal regulations** :
- TSCA 8(a) PAIR:** Acetonitrile (¹⁵N)
 - TSCA 8(a) CDR Exempt/Partial exemption:** Not determined
 - Commerce control list precursor:** Trimethyl phosphite
 - Clean Water Act (CWA) 307:** (²H)Chloroform; Chromium(III) 4-oxopent-2-ene-2-olate; Acetonitrile (¹⁵N)
 - 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

Section 15. Regulatory information

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
1D 1 (² H)Chloroform	≥90	Yes.	-	-	-	-
2-Ethyl-1-Indanone in CDCl3 (² H)Chloroform	≥90	Yes.	-	-	-	-

SARA 304 RQ : Not applicable.

SARA 311/312

Classification

: **1D 1**

ACUTE TOXICITY (oral) - Category 4
 ACUTE TOXICITY (inhalation) - Category 3
 SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2A
 CARCINOGENICITY - Category 2
 TOXIC TO REPRODUCTION (Unborn child) - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver) - Category 1
 ACUTE TOXICITY (oral) - Category 4
 ACUTE TOXICITY (inhalation) - Category 3
 SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2A
 CARCINOGENICITY - Category 2
 TOXIC TO REPRODUCTION (Unborn child) - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver) - Category 1
 TOXIC TO REPRODUCTION (Fertility) - Category 1B
 TOXIC TO REPRODUCTION (Unborn child) - Category 1B

2-Ethyl-1-Indanone in CDCl3

Autotest, no salt

Composition/information on ingredients

Name	%	Classification
1D 1 (² H)Chloroform	≥90	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver) - Category 1
Iodomethane (¹³ C)	≤1.5	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Trimethyl phosphite	≤1.5	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Section 15. Regulatory information

<p>2-Ethyl-1-Indanone in CDCI3 (²H)Chloroform</p>	<p>≥90</p>	<p>ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver) - Category 1</p>
<p>Autotest, no salt Methanol (¹³C)</p>	<p>≤0.3</p>	<p>FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS)) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOX - Defatting irritant</p>

SARA 313

	Product name	CAS number	%
<p>Form R - Reporting requirements</p>	<p>ID 1 (²H)Chloroform Iodomethane (¹³ C)</p>	<p>865-49-6 4227-95-6</p>	<p>≥90 ≤1.5</p>
	<p>2-Ethyl-1-Indanone in CDCI3 (²H)Chloroform</p>	<p>865-49-6</p>	<p>≥90</p>
	<p>Supplier notification</p>	<p>ID 1 (²H)Chloroform Iodomethane (¹³ C)</p>	<p>865-49-6 4227-95-6</p>
<p>2-Ethyl-1-Indanone in CDCI3 (²H)Chloroform</p>		<p>865-49-6</p>	<p>≥90</p>

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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 can expose you to (²H)Chloroform, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Iodomethane (¹³ C), which is known to the State of California to cause cancer, and Methanol (¹³C), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 15. Regulatory information

Ingredient name	No significant risk level	Maximum acceptable dosage level
ID 1 (² H)Chloroform Iodomethane (¹³ C)	-	-
2-Ethyl-1-Indanone in CDCl₃ (² H)Chloroform	-	-
Autotest, no salt Methanol (¹³ C)	-	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
ID 1 Trimethyl phosphite	Schedule III	Listed

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: All components are listed or exempted.
Canada	: Not determined.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted.
Malaysia	: All components are listed or exempted.
New Zealand	: <input checked="" type="checkbox"/> All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: All components are listed or exempted.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Other information

History

Date of issue : 12/20/2017
Date of previous issue : 03/10/2016.
Version : 4

✔ Indicates information that has changed from previously issued version.

Notice to reader

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