

Section 2. Hazards identification

OSHA/HCS status	: Lo Temp Cal	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Hi Temp Cal	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	1H S/N	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	1H Lineshape	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	ID 1	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).
	ID 2	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	App Test - Indanone	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Lo Temp Cal

H225	FLAMMABLE LIQUIDS - Category 2
H301	ACUTE TOXICITY (oral) - Category 3
H311	ACUTE TOXICITY (dermal) - Category 3
H331	ACUTE TOXICITY (inhalation) - Category 3
H315	SKIN CORROSION/IRRITATION - Category 2
H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
H360	TOXIC TO REPRODUCTION (Fertility) - Category 1B
H360	TOXIC TO REPRODUCTION (Unborn child) - Category 1B
H370	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS)) - Category 1
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Hi Temp Cal

H302	ACUTE TOXICITY (oral) - Category 4
H320	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
H370	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (kidneys) - Category 1

1H S/N

H302	ACUTE TOXICITY (oral) - Category 4
H315	SKIN CORROSION/IRRITATION - Category 2
H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
H351	CARCINOGENICITY - Category 2
H335 and H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation and Narcotic effects) - Category 3
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

1H Lineshape

H225	FLAMMABLE LIQUIDS - Category 2
H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
H351	CARCINOGENICITY - Category 2
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

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H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

ID 1

H302 ACUTE TOXICITY (oral) - Category 4
 H315 SKIN CORROSION/IRRITATION - Category 2
 H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
 H351 CARCINOGENICITY - Category 2
 H335 and H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation and Narcotic effects) - Category 3
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
 H304 ASPIRATION HAZARD - Category 1

Autotest, no salt

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

ID 2

H227 FLAMMABLE LIQUIDS - Category 4
 H320 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

App Test - Indanone

H302 ACUTE TOXICITY (oral) - Category 4
 H315 SKIN CORROSION/IRRITATION - Category 2
 H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
 H351 CARCINOGENICITY - Category 2
 H335 and H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation and Narcotic effects) - Category 3
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Ingredients of unknown toxicity

Lo Temp Cal	Not applicable.
Hi Temp Cal	Not applicable.
1H S/N	Not applicable.
1H Lineshape	Not applicable.
ID 1	Not applicable.
Autotest, no salt	Not applicable.
ID 2	Not applicable.
App Test - Indanone	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 2.1%

2.2 GHS label elements

Hazard pictograms



Signal word

Lo Temp Cal	Danger
Hi Temp Cal	Danger
1H S/N	Warning
1H Lineshape	Danger
ID 1	Danger
Autotest, no salt	Danger
ID 2	Warning
App Test - Indanone	Warning

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Hazard statements	: Lo Temp Cal	H225 - Highly flammable liquid and vapor. H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H360 - May damage fertility or the unborn child. H370 - Causes damage to organs. (central nervous system (CNS))
	Hi Temp Cal	H335 - May cause respiratory irritation. H302 - Harmful if swallowed. H320 - Causes eye irritation.
	1H S/N	H370 - Causes damage to organs. (kidneys) H302 - Harmful if swallowed. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H351 - Suspected of causing cancer. H335 - May cause respiratory irritation. H336 - May cause drowsiness and dizziness. H373 - May cause damage to organs through prolonged or repeated exposure.
	1H Lineshape	H225 - Highly flammable liquid and vapor. H319 - Causes serious eye irritation. H351 - Suspected of causing cancer. H336 - May cause drowsiness and dizziness. H373 - May cause damage to organs through prolonged or repeated exposure.
	ID 1	H302 - Harmful if swallowed. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H351 - Suspected of causing cancer. H304 - May be fatal if swallowed and enters airways. H335 - May cause respiratory irritation. H336 - May cause drowsiness and dizziness. H373 - May cause damage to organs through prolonged or repeated exposure.
	Autotest, no salt ID 2	H360 - May damage fertility or the unborn child. H227 - Combustible liquid. H320 - Causes eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure.
	App Test - Indanone	H302 - Harmful if swallowed. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H351 - Suspected of causing cancer. H335 - May cause respiratory irritation. H336 - May cause drowsiness and dizziness. H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

General	: Lo Temp Cal	Not applicable.
	Hi Temp Cal	Not applicable.
	1H S/N	Not applicable.
	1H Lineshape	Not applicable.
	ID 1	Not applicable.
	Autotest, no salt	Not applicable.
	ID 2	Not applicable.
	App Test - Indanone	Not applicable.

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Prevention

: Lo Temp Cal

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. Wear protective clothing.
 P210 - Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P233 - Keep container tightly closed.
 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.
 P280 - Wear eye or face protection.
 P260 - Do not breathe vapor.
 P270 - Do not eat, drink or smoke when using this product.
 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.
 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.
 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.
 P210 - Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P233 - Keep container tightly closed.
 P271 - Use only outdoors or in a well-ventilated area.
 P260 - Do not breathe vapor.
 P264 - Wash hands thoroughly after handling.
 P201 - Obtain special instructions before use.

Hi Temp Cal

1H S/N

1H Lineshape

ID 1

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Autotest, no salt

ID 2

App Test - Indanone

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.
 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.
 P210 - Keep away from flames and hot surfaces. - No smoking.
 P260 - Do not breathe vapor.
 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.
 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.
 P307 + P311 - IF EXPOSED: Call a POISON CENTER or physician.
 P304 + P340 + P311 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician.
 P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P302 + P352 + P312 + P362-2 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing.
 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.

Response

: Lo Temp Cal

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Hi Temp Cal

P307 + P311 - IF exposed: Call a POISON CENTER or physician.

P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

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.

1H S/N

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 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. 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.

1H Lineshape

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.

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

ID 1

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 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.

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Autotest, no salt	<p>P302 + P352 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse.</p> <p>P332 + P313 - If skin irritation occurs: Get medical attention.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 - If eye irritation persists: Get medical attention.</p> <p>P308 + P313 - IF exposed or concerned: Get medical attention.</p>
ID 2	<p>P314 - Get medical attention if you feel unwell.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 - If eye irritation persists: Get medical attention.</p>
App Test - Indanone	<p>P314 - Get medical attention if you feel unwell.</p> <p>P308 + P313 - IF exposed or concerned: Get medical attention.</p> <p>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.</p> <p>P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.</p> <p>P302 + P352 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse.</p> <p>P332 + P313 - If skin irritation occurs: Get medical attention.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 - If eye irritation persists: Get medical attention.</p>
Storage	<p>: Lo Temp Cal</p> <p>Hi Temp Cal 1H S/N 1H Lineshape</p> <p>ID 1 Autotest, no salt ID 2</p> <p>App Test - Indanone</p>
	<p>P405 - Store locked up.</p> <p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p> <p>P405 - Store locked up.</p> <p>P405 - Store locked up.</p> <p>P405 - Store locked up.</p> <p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p> <p>P405 - Store locked up.</p> <p>P405 - Store locked up.</p> <p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p> <p>P405 - Store locked up.</p>

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Disposal	:	Lo Temp Cal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
		Hi Temp Cal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
		1H S/N	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
		1H Lineshape	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
		ID 1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
		Autotest, no salt	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
		ID 2	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
		App Test - Indanone	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
	Supplemental label elements	:	Lo Temp Cal	Avoid contact with skin and clothing. Wash thoroughly after handling.
		Hi Temp Cal	None known.	
		1H S/N	None known.	
		1H Lineshape	Avoid contact with skin and clothing. Wash thoroughly after handling.	
		ID 1	None known.	
		Autotest, no salt	None known.	
		ID 2	None known.	
		App Test - Indanone	None known.	
2.3 Other hazards				
	Hazards not otherwise classified	:	Lo Temp Cal	Defatting to the skin. Prolonged or repeated contact may dry skin and cause irritation.
			Hi Temp Cal	None known.
			1H S/N	None known.
			1H Lineshape	Defatting to the skin. Prolonged or repeated contact may dry skin and cause irritation.
			ID 1	None known.
			Autotest, no salt	None known.
			ID 2	None known.
			App Test - Indanone	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.

Section 3. Composition/information on ingredients

Substance/mixture	:	Lo Temp Cal	Substance
		Hi Temp Cal	Substance
		1H S/N	Mixture
		1H Lineshape	Mixture
		ID 1	Mixture
		Autotest, no salt	Mixture
		ID 2	Mixture
		App Test - Indanone	Mixture

Ingredient name	%	CAS number
Lo Temp Cal Methanol	60 - 100	67-56-1
Hi Temp Cal Ethenediol	60 - 100	107-21-1
1H S/N (² H)Chloroform Ethylbenzene	60 - 100 < 0.1	865-49-6 100-41-4
1H Lineshape (² H ₆)Acetone Trichloromethane	60 - 100 0.1 - 1	666-52-4 67-66-3
ID 1 (² H)Chloroform Iodomethane (¹³ C) Trimethyl phosphite	60 - 100 0.1 - 1 0.1 - 1	865-49-6 4227-95-6 121-45-9
Autotest, no salt Methanol (¹³ C)	< 0.1	14742-26-8
ID 2 di[(² H ₃)Methyl] sulphoxide Benzamide (¹⁵ N)	60 - 100 1 - 5	2206-27-1 31656-62-9
App Test - Indanone (² H)Chloroform	60 - 100	865-49-6

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 : Lo Temp Cal

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

Hi Temp Cal

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

Section 4. First aid measures

		medical attention. If necessary, call a poison center or physician.
	1H S/N	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.
	1H Lineshape	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.
	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.
	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.
	ID 2	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 following exposure or if feeling unwell.
	App Test - Indanone	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Lo Temp Cal	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.
	Hi Temp Cal	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

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1H S/N

such as a collar, tie, belt or waistband. 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.

1H Lineshape

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.

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.

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

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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.

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 following exposure or if feeling unwell. 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.

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.

Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. 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. If necessary, call a poison center or physician. 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.

Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least

ID 2

App Test - Indanone

Skin contact

: Lo Temp Cal

Hi Temp Cal

1H S/N

1H Lineshape

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	ID 1	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.
	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.
	ID 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	App Test - Indanone	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.
Ingestion	: Lo Temp Cal	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. 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. 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.
	Hi Temp Cal	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.
	1H S/N	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in

Section 4. First aid measures

1H Lineshape	<p>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.</p>
ID 1	<p>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.</p>
Autotest, no salt	<p>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. 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</p>

Section 4. First aid measures

ID 2

open airway. Loosen tight clothing such as a collar, tie, 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 following exposure or if feeling unwell. 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.

App Test - Indanone

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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: Lo Temp Cal
Hi Temp Cal
1H S/N
1H Lineshape
ID 1
Autotest, no salt
ID 2
App Test - Indanone

Causes serious eye irritation.
Causes eye irritation.
Causes serious eye irritation.
Causes serious eye irritation.
Causes serious eye irritation.
No known significant effects or critical hazards.
Causes eye irritation.
Causes serious eye irritation.

Inhalation

: Lo Temp Cal
Hi Temp Cal
1H S/N

Toxic if inhaled. May cause respiratory irritation.
No known significant effects or critical hazards.
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.
Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Can cause central nervous system (CNS)

1H Lineshape

ID 1

Section 4. First aid measures

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. No known significant effects or critical hazards. No known significant effects or critical hazards. 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. Toxic in contact with skin. Causes skin irritation. Defatting to the skin. No known significant effects or critical hazards. Causes skin irritation. Defatting to the skin. May cause skin dryness and irritation. Causes skin irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes skin irritation. Toxic if swallowed. Irritating to mouth, throat and stomach. Harmful if swallowed. May be irritating to mouth, throat and stomach. Harmful if swallowed. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach. Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach. No known significant effects or critical hazards. May be irritating to mouth, throat and stomach. Harmful if swallowed. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.

Autotest, no salt
ID 2
App Test - Indanone

Skin contact

: Lo Temp Cal

Hi Temp Cal
1H S/N
1H Lineshape

ID 1
Autotest, no salt
ID 2
App Test - Indanone

Ingestion

: Lo Temp Cal

Hi Temp Cal

1H S/N

1H Lineshape

ID 1

Autotest, no salt
ID 2
App Test - Indanone

Over-exposure signs/symptoms

Eye contact

: Lo Temp Cal

Hi Temp Cal

1H S/N

1H Lineshape

ID 1

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

Section 4. First aid measures

	Autotest, no salt ID 2	watering redness No specific data. Adverse symptoms may include the following: irritation watering redness
	App Test - Indanone	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Lo Temp Cal	Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
	Hi Temp Cal 1H S/N	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	1H Lineshape	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	ID 1	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	Autotest, no salt	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	ID 2 App Test - Indanone	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness

Section 4. First aid measures

Skin contact	: Lo Temp Cal	Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
	Hi Temp Cal 1H S/N	No specific data. Adverse symptoms may include the following: irritation redness
	1H Lineshape	Adverse symptoms may include the following: irritation dryness cracking
	ID 1	Adverse symptoms may include the following: irritation redness
	Autotest, no salt	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	ID 2 App Test - Indanone	No specific data. Adverse symptoms may include the following: irritation redness
Ingestion	: Lo Temp Cal	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	Hi Temp Cal 1H S/N 1H Lineshape ID 1	No specific data. No specific data. No specific data. Adverse symptoms may include the following: nausea or vomiting
	Autotest, no salt	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	ID 2 App Test - Indanone	No specific data. No specific data.

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

Notes to physician	: Lo Temp Cal	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Hi Temp Cal	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	1H S/N	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.
	1H Lineshape	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.

Section 4. First aid measures

	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.
	Autotest, no salt	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	ID 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	App Test - Indanone	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.
Specific treatments	: Lo Temp Cal	No specific treatment.
	Hi Temp Cal	No specific treatment.
	1H S/N	No specific treatment.
	1H Lineshape	No specific treatment.
	ID 1	No specific treatment.
	Autotest, no salt	No specific treatment.
	ID 2	No specific treatment.
	App Test - Indanone	No specific treatment.
Protection of first-aiders	: Lo Temp Cal	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.
	Hi Temp Cal	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	1H S/N	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.
	1H Lineshape	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.
	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.
	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

Section 4. First aid measures

ID 2	before removing it, or wear gloves. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
App Test - Indanone	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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Lo Temp Cal	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Hi Temp Cal	Use an extinguishing agent suitable for the surrounding fire.
	1H S/N	Use an extinguishing agent suitable for the surrounding fire.
	1H Lineshape	Use dry chemical, CO ₂ , water spray (fog) or foam.
	ID 1	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 2	Use dry chemical, CO ₂ , water spray (fog) or foam.
	App Test - Indanone	Use an extinguishing agent suitable for the surrounding fire.
	: Lo Temp Cal	Do not use water jet.
	Hi Temp Cal	None known.
	1H S/N	None known.
	1H Lineshape	Do not use water jet.
ID 1	None known.	
Autotest, no salt	None known.	
ID 2	Do not use water jet.	
App Test - Indanone	None known.	

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: Lo Temp Cal	Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
	Hi Temp Cal	In a fire or if heated, a pressure increase will occur and the container may burst.
	1H S/N	In a fire or if heated, a pressure increase will occur and the container may burst.
	1H Lineshape	Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or

Section 5. Fire-fighting measures

	ID 1	explosion hazard. 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.
	ID 2	Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/ gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
	App Test - Indanone	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 sulfur oxides halogenated compounds carbonyl halides	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: Lo Temp Cal	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	Hi Temp Cal	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.
	1H S/N	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.
	1H Lineshape	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	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.
	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.
	ID 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	App Test - Indanone	Promptly isolate the scene by removing all persons

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

: Lo Temp Cal

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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

Hi Temp Cal

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

1H S/N

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

1H Lineshape

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

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.

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.

ID 2

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

App Test - Indanone

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

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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".

6.2 Environmental precautions

: Lo Temp Cal

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).

Hi Temp Cal

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,

Section 6. Accidental release measures

1H S/N	waterways, soil or air). 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).
1H Lineshape	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).
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).
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).
ID 2	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).
App Test - Indanone	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

Lo Temp Cal	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Hi Temp Cal	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.
1H S/N	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.
1H Lineshape	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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.
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 6. Accidental release measures

ID 2	disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
App Test - Indanone	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	: Lo Temp Cal	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. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Hi Temp Cal	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.
	1H S/N	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 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.

Section 7. Handling and storage

1H Lineshape

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 ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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.

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.

ID 2

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other

Section 7. Handling and storage

ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container. 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 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.

App Test - Indanone

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.

7.2 Conditions for safe storage, including any incompatibilities

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

Hi Temp Cal

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.

1H S/N

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

Section 7. Handling and storage

1H Lineshape

environmental contamination.

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

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.

Autotest, no salt

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.

ID 2

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

App Test - Indanone

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

Section 7. Handling and storage

environmental contamination.

7.3 Specific end use(s)

Recommendations	: Lo Temp Cal	Industrial applications, Professional applications.
	Hi Temp Cal	Industrial applications, Professional applications.
	1H S/N	Industrial applications, Professional applications.
	1H Lineshape	Industrial applications, Professional applications.
	ID 1	Industrial applications, Professional applications.
	Autotest, no salt	Industrial applications, Professional applications.
	ID 2	Industrial applications, Professional applications.
	App Test - Indanone	Industrial applications, Professional applications.
Industrial sector specific solutions	: 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
Lo Temp Cal Methanol	ACGIH TLV (United States, 6/2013). Absorbed through skin. STEL: 328 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 262 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. NIOSH REL (United States, 4/2013). Absorbed through skin. STEL: 325 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 260 mg/m ³ 10 hours. TWA: 200 ppm 10 hours. OSHA PEL (United States, 2/2013). TWA: 260 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. STEL: 325 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 260 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Hi Temp Cal Ethanediol	ACGIH TLV (United States, 6/2013). Absorbed through skin. STEL: 328 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 262 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. NIOSH REL (United States, 4/2013). Absorbed through skin. STEL: 325 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 260 mg/m ³ 10 hours.

Section 8. Exposure controls/personal protection

1H S/N

(²H)Chloroform

TWA: 200 ppm 10 hours.
OSHA PEL (United States, 2/2013).
 TWA: 260 mg/m³ 8 hours.
 TWA: 200 ppm 8 hours.
OSHA PEL 1989 (United States, 3/1989).
Absorbed through skin.
 STEL: 325 mg/m³ 15 minutes.
 STEL: 250 ppm 15 minutes.
 TWA: 260 mg/m³ 8 hours.
 TWA: 200 ppm 8 hours.

ACGIH TLV (United States, 3/2012).

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, 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

Ethylbenzene

ACGIH TLV (United States, 6/2013).
 TWA: 20 ppm 8 hours.
NIOSH REL (United States, 4/2013).
 STEL: 545 mg/m³ 15 minutes.
 STEL: 125 ppm 15 minutes.
 TWA: 435 mg/m³ 10 hours.
 TWA: 100 ppm 10 hours.
OSHA PEL (United States, 2/2013).
 TWA: 435 mg/m³ 8 hours.
 TWA: 100 ppm 8 hours.
OSHA PEL 1989 (United States, 3/1989).
 STEL: 545 mg/m³ 15 minutes.
 STEL: 125 ppm 15 minutes.
 TWA: 435 mg/m³ 8 hours.
 TWA: 100 ppm 8 hours.

1H Lineshape

(²H₆)Acetone

ACGIH TLV (United States, 3/2012).
 TWA: 500 ppm 8 hours.
 TWA: 1188 mg/m³ 8 hours.
 STEL: 750 ppm 15 minutes.
 STEL: 1782 mg/m³ 15 minutes.
OSHA PEL 1989 (United States, 3/1989).
 TWA: 750 ppm 8 hours.
 TWA: 1800 mg/m³ 8 hours.
 STEL: 1000 ppm 15 minutes.
 STEL: 2400 mg/m³ 15 minutes.
NIOSH REL (United States, 6/2009).
 TWA: 250 ppm 10 hours.
 TWA: 590 mg/m³ 10 hours.
OSHA PEL (United States, 6/2010).
 TWA: 1000 ppm 8 hours.

Section 8. Exposure controls/personal protection

Trichloromethane

TWA: 2400 mg/m³ 8 hours.
ACGIH TLV (United States, 6/2013).
 TWA: 49 mg/m³ 8 hours.
 TWA: 10 ppm 8 hours.
NIOSH REL (United States, 4/2013).
 STEL: 9.78 mg/m³ 60 minutes.
 STEL: 2 ppm 60 minutes.
OSHA PEL (United States, 2/2013).
 CEIL: 240 mg/m³
 CEIL: 50 ppm
OSHA PEL 1989 (United States, 3/1989).
 TWA: 9.78 mg/m³ 8 hours.
 TWA: 2 ppm 8 hours.

ID 1

(²H)Chloroform

ACGIH TLV (United States, 3/2012).
 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, 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 (¹³C)

ACGIH TLV (United States, 3/2012).
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/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.
 TWA: 28 mg/m³ 8 hours.

Trimethyl phosphite

ACGIH TLV (United States, 6/2013).
 TWA: 2 ppm 8 hours.
 TWA: 10 mg/m³ 8 hours.
OSHA PEL 1989 (United States, 3/1989).
 TWA: 2 ppm 8 hours.
 TWA: 10 mg/m³ 8 hours.
NIOSH REL (United States, 4/2013).
 TWA: 2 ppm 10 hours.
 TWA: 10 mg/m³ 10 hours.

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.

Section 8. Exposure controls/personal protection

ID 2

di[(²H₃)Methyl] sulphoxide

App Test - Indanone

(²H)Chloroform

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, 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.

AIHA WEEL (United States, 10/2011).

TWA: 250 ppm 8 hours.

ACGIH TLV (United States, 3/2012).

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, 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

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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

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

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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : 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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Lo Temp Cal	Liquid. [Clear.]
	Hi Temp Cal	Liquid. [Viscous liquid.]
	1H S/N	Liquid.
	1H Lineshape	Liquid.
	ID 1	Liquid.
	Autotest, no salt	Liquid.
	ID 2	Liquid. [Clear.]
	App Test - Indanone	Liquid.
Color	: Lo Temp Cal	Colorless. Clear.
	Hi Temp Cal	Colorless.
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
	ID 2	Colorless.
	App Test - Indanone	Colorless.
Odor	: Lo Temp Cal	Characteristic.
	Hi Temp Cal	Slight
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
	ID 2	Ripe olive.
	App Test - Indanone	Pleasant.-Sweet.

Section 9. Physical and chemical properties

Odor threshold	: Lo Temp Cal	Not available.
	Hi Temp Cal	Not available.
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
	ID 2	Not available.
	App Test - Indanone	Not available.
pH	: Lo Temp Cal	Not available.
	Hi Temp Cal	Not available.
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
	ID 2	Not available.
	App Test - Indanone	Not available.
Melting point	: Lo Temp Cal	-97.8°C (-144°F)
	Hi Temp Cal	-13°C (8.6°F)
	1H S/N	-64°C (-83.2°F)
	1H Lineshape	-95°C (-139°F)
	ID 1	-64°C (-83.2°F)
	Autotest, no salt	3.81°C (38.9°F)
	ID 2	18 to 18.54°C (64.4 to 65.4°F)
	App Test - Indanone	-63°C (-81.4°F)
Boiling point	: Lo Temp Cal	64.7°C (148.5°F)
	Hi Temp Cal	197.4°C (387.3°F)
	1H S/N	60.9°C (141.6°F)
	1H Lineshape	55.5°C (131.9°F)
	ID 1	60.9°C (141.6°F)
	Autotest, no salt	101.1°C (214°F)
	ID 2	189°C (372.2°F)
	App Test - Indanone	60.5 to 61.5°C (140.9 to 142.7°F)
Flash point	: Lo Temp Cal	Closed cup: 9.7°C (49.5°F) [Setaflash.]
	Hi Temp Cal	Closed cup: 111°C (231.8°F)
	1H S/N	Not available.
	1H Lineshape	Closed cup: -17°C (1.4°F)
	ID 1	Not available.
	Autotest, no salt	Not available.
	ID 2	Closed cup: 88°C (190.4°F)
	App Test - Indanone	Not available.
Evaporation rate	: Lo Temp Cal	2.1 (butyl acetate = 1)
	Hi Temp Cal	0.01 (butyl acetate = 1)
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
	ID 2	Not available.
	App Test - Indanone	Not available.
Flammability (solid, gas)	: Lo Temp Cal	Not available.
	Hi Temp Cal	Not available.
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
	ID 2	Not available.
	App Test - Indanone	Not available.

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	: Lo Temp Cal	Lower: 6%
		Upper: 44%
	Hi Temp Cal	Lower: 3.2%
		Upper: 15.3%
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
Vapor pressure	ID 2	Lower: 3%
	App Test - Indanone	Not available.
	: Lo Temp Cal	16.9 kPa (126.96 mm Hg) [room temperature]
	Hi Temp Cal	0.012 kPa (0.09 mm Hg) [room temperature]
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
Vapor density	ID 2	0.061 kPa (0.46 mm Hg) [room temperature]
	App Test - Indanone	21.3 kPa (160 mm Hg) [room temperature]
	: Lo Temp Cal	1.1 [Air = 1]
	Hi Temp Cal	2.1 [Air = 1]
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
Relative density	ID 2	1.04 [Air = 1]
	App Test - Indanone	4.1 [Air = 1]
	: Lo Temp Cal	0.79
	Hi Temp Cal	1.1
	1H S/N	1.5
	1H Lineshape	0.872
	ID 1	1500
	Autotest, no salt	1.1 [(D2O)]
Solubility	ID 2	1.18
	App Test - Indanone	1.492
	: Lo Temp Cal	Easily soluble in the following materials: cold water, hot water, methanol, n-octanol and acetone.
	Hi Temp Cal	Easily soluble in the following materials: cold water, hot water, methanol and acetone.
	1H S/N	Very slightly soluble in the following materials: cold water and hot water.
	1H Lineshape	Easily soluble in the following materials: cold water, hot water and acetone.
	ID 1	Very slightly soluble in the following materials: cold water and hot water.
	Autotest, no salt	Easily soluble in the following materials: cold water and hot water.
Solubility in water	ID 2	Soluble in the following materials: cold water and hot water.
	App Test - Indanone	Very slightly soluble in the following materials: cold water and hot water.
	: Not available.	

Section 9. Physical and chemical properties

Partition coefficient: n-octanol/water	: Lo Temp Cal	-0.77
	Hi Temp Cal	-1.36
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
	ID 2	Not available.
	App Test - Indanone	Not available.
Auto-ignition temperature	: Lo Temp Cal	455°C (851°F)
	Hi Temp Cal	398°C (748.4°F)
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
	ID 2	215°C (419°F)
	App Test - Indanone	Not available.
Decomposition temperature	: Lo Temp Cal	Not available.
	Hi Temp Cal	500 to 600°C (932 to 1112°F)
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
	ID 2	Not available.
	App Test - Indanone	Not available.
Viscosity	: Lo Temp Cal	Dynamic (room temperature): 0.544 to 0.59 mPa·s (0.544 to 0.59 cP)
	Hi Temp Cal	Dynamic (room temperature): 16.1 mPa·s (16.1 cP)
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
	ID 2	Not available.
	App Test - Indanone	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: Lo Temp Cal	No specific test data related to reactivity available for this product or its ingredients.
	Hi Temp Cal	No specific test data related to reactivity available for this product or its ingredients.
	1H S/N	No specific test data related to reactivity available for this product or its ingredients.
	1H Lineshape	No specific test data related to reactivity available for this product or its ingredients.
	ID 1	No specific test data related to reactivity available for this product or its ingredients.
	Autotest, no salt	No specific test data related to reactivity available for this product or its ingredients.
	ID 2	No specific test data related to reactivity available for this product or its ingredients.
	App Test - Indanone	No specific test data related to reactivity available for this product or its ingredients.

Section 10. Stability and reactivity

10.2 Chemical stability	: Lo Temp Cal Hi Temp Cal 1H S/N 1H Lineshape ID 1 Autotest, no salt ID 2 App Test - Indanone	The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: Lo Temp Cal Hi Temp Cal 1H S/N 1H Lineshape ID 1 Autotest, no salt ID 2 App Test - Indanone	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. 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. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Lo Temp Cal Hi Temp Cal 1H S/N 1H Lineshape ID 1 Autotest, no salt ID 2 App Test - Indanone	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Combustible liquid. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. No specific data. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. No specific data. No specific data. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. No specific data.
10.5 Incompatible materials	: Lo Temp Cal Hi Temp Cal 1H S/N 1H Lineshape	Reactive or incompatible with the following materials: oxidizing materials No specific data. No specific data. Reactive or incompatible with the following materials: oxidizing materials

Section 10. Stability and reactivity

ID 1	No specific data.
Autotest, no salt	No specific data.
ID 2	Reactive or incompatible with the following materials: oxidizing materials
App Test - Indanone	No specific data.

10.6 Hazardous decomposition products

: Lo Temp Cal	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hi Temp Cal	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
1H S/N	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
1H Lineshape	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
ID 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Autotest, no salt	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
ID 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
App Test - Indanone	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
Lo Temp Cal Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Hi Temp Cal Ethanediol	LD50 Oral	Rat	4700 mg/kg	-
1H S/N (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	-
Ethylbenzene	LC50 Inhalation Gas.	Rat	4000 ppm	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
1H Lineshape (² H ₆)Acetone Trichloromethane	LD50 Oral	Rat	5800 mg/kg	-
	LC50 Inhalation Vapor	Rat	47702 mg/m ³	4 hours

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ID 1 (² H)Chloroform	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	300 mg/kg	-
Iodomethane (¹³ C)	LC50 Inhalation Vapor	Rat	47702 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>20 g/kg	-
Trimethyl phosphite	LD50 Oral	Rat	300 mg/kg	-
	LC50 Inhalation Vapor	Rat	1300 mg/m ³	4 hours
Autotest, no salt Methanol (¹³ C)	LD50 Oral	Rat	76 mg/kg	-
	LC50 Inhalation Vapor	Rat	182000 mg/m ³	1 hours
	LD50 Dermal	Rabbit	933.8 mg/kg	-
	LD50 Oral	Rat	1350 mg/kg	-
ID 2 di[(² H ₃)Methyl] sulphoxide	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
App Test - Indanone (² H)Chloroform	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
	LC50 Inhalation Vapor	Rat	47702 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	300 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Lo Temp Cal Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Hi Temp Cal Ethanediol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	1 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	6 hours 1440 milligrams	-
	Skin - Mild irritant	Rabbit	-	555 milligrams	-
1H S/N (² H)Chloroform	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Ethylbenzene	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-
1H Lineshape (² H ₆)Acetone	Eyes - Mild irritant	Human	-	186300 parts per million	-

Section 11. Toxicological information

Trichloromethane	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	395 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
ID 1 (² H)Chloroform	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Iodomethane (¹³ C)	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rat	-	30 minutes 1 Grams	-
	Skin - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Human	-	10 minutes 1 Grams	-
Trimethyl phosphite	Eyes - Mild irritant	Rabbit	-	0.1 Milliliters	-
	Skin - Severe irritant	Rabbit	-	500 milligrams	-
Autotest, no salt Methanol (¹³ C)	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
ID 2 di[(² H ₃)Methyl] sulphoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	100 milligrams	-
App Test - Indanone (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.

Section 11. Toxicological information

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
1H S/N (² H)Chloroform Ethylbenzene	- -	2B 2B	Reasonably anticipated to be a human carcinogen. -
1H Lineshape Trichloromethane	-	2B	Reasonably anticipated to be a human carcinogen.
ID 1 (² H)Chloroform Iodomethane (¹³ C)	- -	2B 3	Reasonably anticipated to be a human carcinogen. -
App Test - Indanone (² H)Chloroform	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Lo Temp Cal Methanol	Category 1 Category 3	Not determined Not applicable.	central nervous system (CNS) Respiratory tract irritation
Hi Temp Cal Ethanediol	Category 1	Not determined	kidneys
1H S/N (² H)Chloroform	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Ethylbenzene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
1H Lineshape (² H ₆)Acetone Trichloromethane	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation and Narcotic effects
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

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Trimethyl phosphite	Category 3	Not applicable.	Respiratory tract irritation
Autotest, no salt Methanol (¹³ C)	Category 1	Not determined	central nervous system (CNS)
	Category 3	Not applicable.	Respiratory tract irritation
App Test - Indanone (² H)Chloroform	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
1H S/N (² H)Chloroform	Category 2	Not determined	kidneys and liver
1H Lineshape Trichloromethane	Category 2	Not determined	heart, kidneys and liver
ID 1 (² H)Chloroform	Category 2	Not determined	kidneys and liver
ID 2 di[(² H ₃)Methyl] sulphoxide	Category 2	Oral	kidneys and liver
App Test - Indanone (² H)Chloroform	Category 2	Not determined	kidneys and liver

Aspiration hazard

Name	Result
1H S/N (² H)Chloroform Ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
ID 1 (² H)Chloroform	ASPIRATION HAZARD - Category 1
App Test - Indanone (² H)Chloroform	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact	: Lo Temp Cal Hi Temp Cal 1H S/N 1H Lineshape ID 1 Autotest, no salt ID 2 App Test - Indanone	Causes serious eye irritation. Causes eye irritation. Causes serious eye irritation. Causes serious eye irritation. Causes serious eye irritation. No known significant effects or critical hazards. Causes eye irritation. Causes serious eye irritation.
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Inhalation	<p>: Lo Temp Cal Hi Temp Cal 1H S/N</p> <p>1H Lineshape</p> <p>ID 1</p> <p>Autotest, no salt ID 2 App Test - Indanone</p>	<p>Toxic if inhaled. May cause respiratory irritation. No known significant effects or critical hazards. 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.</p> <p>Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</p> <p>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.</p> <p>No known significant effects or critical hazards. No known significant effects or critical hazards. 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.</p>
Skin contact	<p>: Lo Temp Cal</p> <p>Hi Temp Cal 1H S/N 1H Lineshape</p> <p>ID 1 Autotest, no salt ID 2 App Test - Indanone</p>	<p>Toxic in contact with skin. Causes skin irritation. Defatting to the skin.</p> <p>No known significant effects or critical hazards. Causes skin irritation. Defatting to the skin. May cause skin dryness and irritation.</p> <p>Causes skin irritation.</p> <p>No known significant effects or critical hazards. No known significant effects or critical hazards. Causes skin irritation.</p>
Ingestion	<p>: Lo Temp Cal</p> <p>Hi Temp Cal</p> <p>1H S/N</p> <p>1H Lineshape</p> <p>ID 1</p> <p>Autotest, no salt ID 2 App Test - Indanone</p>	<p>Toxic if swallowed. Irritating to mouth, throat and stomach.</p> <p>Harmful if swallowed. May be irritating to mouth, throat and stomach.</p> <p>Harmful if swallowed. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.</p> <p>Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach. Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.</p> <p>No known significant effects or critical hazards. May be irritating to mouth, throat and stomach. Harmful if swallowed. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.</p>

[Symptoms related to the physical, chemical and toxicological characteristics](#)

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Eye contact	: Lo Temp Cal	Adverse symptoms may include the following: pain or irritation watering redness
	Hi Temp Cal	Adverse symptoms may include the following: irritation watering redness
	1H S/N	Adverse symptoms may include the following: pain or irritation watering redness
	1H Lineshape	Adverse symptoms may include the following: pain or irritation watering redness
	ID 1	Adverse symptoms may include the following: pain or irritation watering redness
	Autotest, no salt ID 2	No specific data. Adverse symptoms may include the following: irritation watering redness
	App Test - Indanone	Adverse symptoms may include the following: pain or irritation watering redness
	Inhalation	: Lo Temp Cal
	Hi Temp Cal 1H S/N	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	1H Lineshape	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	ID 1	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	Autotest, no salt	Adverse symptoms may include the following:

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reduced fetal weight
 increase in fetal deaths
 skeletal malformations
 No specific data.
 Adverse symptoms may include the following:
 respiratory tract irritation
 coughing
 nausea or vomiting
 headache
 drowsiness/fatigue
 dizziness/vertigo
 unconsciousness

Skin contact

: Lo Temp Cal

Adverse symptoms may include the following:
 irritation
 redness
 dryness
 cracking

Hi Temp Cal
 1H S/N

reduced fetal weight
 increase in fetal deaths
 skeletal malformations
 No specific data.
 Adverse symptoms may include the following:
 irritation
 redness

1H Lineshape

Adverse symptoms may include the following:
 irritation
 dryness
 cracking

ID 1

Adverse symptoms may include the following:
 irritation
 redness

Autotest, no salt

Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations
 No specific data.
 Adverse symptoms may include the following:
 irritation
 redness

ID 2
 App Test - Indanone

Ingestion

: Lo Temp Cal

Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations
 No specific data.
 No specific data.
 No specific data.

Hi Temp Cal
 1H S/N
 1H Lineshape
 ID 1

Adverse symptoms may include the following:
 nausea or vomiting
 Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations
 No specific data.
 No specific data.

Autotest, no salt

ID 2
 App Test - Indanone

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

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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	: Lo Temp Cal Hi Temp Cal 1H S/N 1H Lineshape ID 1 Autotest, no salt ID 2 App Test - Indanone	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. No known significant effects or critical hazards. May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards. May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: Lo Temp Cal Hi Temp Cal 1H S/N 1H Lineshape ID 1 Autotest, no salt ID 2 App Test - Indanone	No known significant effects or critical hazards. No known significant effects or critical hazards. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. No known significant effects or critical hazards. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: Lo Temp Cal Hi Temp Cal 1H S/N 1H Lineshape ID 1 Autotest, no salt ID 2 App Test - Indanone	No known significant effects or critical hazards.
Teratogenicity	: Lo Temp Cal Hi Temp Cal 1H S/N 1H Lineshape ID 1 Autotest, no salt ID 2 App Test - Indanone	May damage the unborn child. No known significant effects or critical hazards. May damage the unborn child. No known significant effects or critical hazards. No known significant effects or critical hazards.

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Developmental effects	: Lo Temp Cal	No known significant effects or critical hazards.
	Hi Temp Cal	No known significant effects or critical hazards.
	1H S/N	No known significant effects or critical hazards.
	1H Lineshape	No known significant effects or critical hazards.
	ID 1	No known significant effects or critical hazards.
	Autotest, no salt	No known significant effects or critical hazards.
Fertility effects	: Lo Temp Cal	May damage fertility.
	Hi Temp Cal	No known significant effects or critical hazards.
	1H S/N	No known significant effects or critical hazards.
	1H Lineshape	No known significant effects or critical hazards.
	ID 1	No known significant effects or critical hazards.
	Autotest, no salt	May damage fertility.
	ID 2	No known significant effects or critical hazards.
	App Test - Indanone	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
1H S/N Oral	500.5 mg/kg
1H Lineshape Oral	30000 mg/kg
ID 1 Oral	477.3 mg/kg
Dermal	50505.5 mg/kg
Inhalation (vapors)	300 mg/l
ID 2 Oral	25000 mg/kg
App Test - Indanone Oral	510.7 mg/kg

Other information	: Lo Temp Cal	Adverse symptoms may include the following: redness . Defatting to the skin. Adverse health effects could include the following: blurred or double vision, headache Repeated exposure may cause skin dryness or cracking. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage.
	Hi Temp Cal	Not available.
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	Autotest, no salt	Not available.
	ID 2	Not available.
	App Test - Indanone	Not available.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	
Lo Temp Cal Methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours	
	Acute EC50 10000000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours	
	Acute LC50 100 mg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours	
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours	
Hi Temp Cal Ethanediol	Acute LC50 100000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours	
	Acute LC50 10000000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 8050000 µg/l Fresh water	Fish - Pimephales promelas	96 hours	
1H S/N (² H)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	
	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours	
Ethylbenzene	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours	
	Acute EC50 2970 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours	
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours	
	Chronic NOEC 1000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours	
1H Lineshape (² H ₆)Acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours	
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours	
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 100000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours	
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours	
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days	
Trichloromethane	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 63800 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
	Acute LC50 13.3 ppm Fresh water	Fish - Lepomis macrochirus	96 hours	

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ID 1 (² H)Chloroform	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	
	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 (¹³ C)	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 100000 µg/l Fresh water		Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours	
Chronic NOEC 9.96 mg/l Marine water		Algae - Ulva pertusa	96 hours	
ID 2 di[(² H ₃)Methyl] sulphoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours	
	Acute LC50 661000 µg/l Fresh water	Fish - Pimephales promelas	96 hours	
Benzamide (¹⁵ N)				
App Test - Indanone (² H)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	

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hi Temp Cal Ethanediol	-	56 % - Readily - 1 days	100 mg/l	Activated sludge

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hi Temp Cal Ethanediol	-	-	Readily
1H S/N Ethylbenzene	-	-	Readily

Section 12. Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Lo Temp Cal Methanol	-0.77	<10	low
Hi Temp Cal Ethenediol	-1.36	-	low
1H S/N (² H)Chloroform	1.97	690	high
Ethylbenzene	3.6	-	low
1H Lineshape (² H ₆)Acetone	-0.23	-	low
Trichloromethane	1.97	690	high
ID 1 (² H)Chloroform	1.97	690	high
Iodomethane (¹³ C)	1.57	-	low
Trimethyl phosphite	-0.73	-	low
Autotest, no salt Methanol (¹³ C)	-0.77	<10	low
ID 2 di[(² H ₃)Methyl] sulphoxide	-1.35	3.16	low
App Test - Indanone (² H)Chloroform	1.97	690	high

12.4 Mobility in soil

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

12.5 Other adverse effects :

Lo Temp Cal	No known significant effects or critical hazards.
Hi Temp Cal	No known significant effects or critical hazards.
1H S/N	No known significant effects or critical hazards.
1H Lineshape	No known significant effects or critical hazards.
ID 1	No known significant effects or critical hazards.
Autotest, no salt	No known significant effects or critical hazards.
ID 2	No known significant effects or critical hazards.
App Test - Indanone	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

Section 13. Disposal considerations

cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of 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

DOT / IMDG / IATA : Not regulated.

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)
Commerce control list precursor: Trimethyl phosphite
United States inventory (TSCA 8b): Not determined.
Clean Water Act (CWA) 307: (²H)Chloroform; Ethylbenzene; Chromium(III) 4-oxopent-2-ene-2-olate; Acetonitrile (¹⁵N); Trichloromethane
Clean Water Act (CWA) 311: (²H)Chloroform; Ethylbenzene; Trichloromethane
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) : Listed

SARA 302/304

Composition/information on ingredients

Section 15. Regulatory information

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
1H S/N (² H)Chloroform	60 - 100	Yes.	-	-	-	-
1H Lineshape Trichloromethane	0.1 - 1	Yes.	10000	803.8	10	0.8
ID 1 (² H)Chloroform	60 - 100	Yes.	-	-	-	-
App Test - Indanone (² H)Chloroform	60 - 100	Yes.	-	-	-	-

SARA 304 RQ : 8000 lbs / 3632 kg

SARA 311/312

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

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Lo Temp Cal Methanol	60 - 100	Yes.	No.	No.	Yes.	Yes.
Hi Temp Cal Ethanediol	60 - 100	No.	No.	No.	Yes.	No.
1H S/N (² H)Chloroform	60 - 100	No.	No.	No.	Yes.	Yes.
Ethylbenzene	< 0.1	Yes.	No.	No.	Yes.	Yes.
1H Lineshape (² H ₆)Acetone	60 - 100	Yes.	No.	No.	Yes.	No.
Trichloromethane	0.1 - 1	No.	No.	No.	Yes.	Yes.
ID 1 (² H)Chloroform	60 - 100	No.	No.	No.	Yes.	Yes.
Iodomethane (¹³ C)	0.1 - 1	No.	No.	No.	Yes.	Yes.
Trimethyl phosphite	0.1 - 1	Yes.	No.	No.	Yes.	No.
Autotest, no salt Methanol (¹³ C)	< 0.1	Yes.	No.	No.	Yes.	Yes.
ID 2 di[(² H ₃)Methyl] sulphoxide	60 - 100	Yes.	No.	No.	Yes.	Yes.
Benzamide (¹⁵ N)	1 - 5	No.	No.	No.	Yes.	No.
App Test - Indanone (² H)Chloroform	60 - 100	No.	No.	No.	Yes.	Yes.

SARA 313

Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	Lo Temp Cal Methanol	67-56-1	60 - 100
	Hi Temp Cal Ethanediol	107-21-1	60 - 100
	1H S/N (² H)Chloroform	865-49-6	60 - 100
	Ethylbenzene	100-41-4	0.1 - 1
	1H Lineshape Trichloromethane	67-66-3	0.1 - 1
	ID 1 (² H)Chloroform	865-49-6	60 - 100
	Iodomethane (¹³ C)	4227-95-6	0.1 - 1
ID 2 Benzamide (¹⁵ N)	31656-62-9	1 - 5	
App Test - Indanone (² H)Chloroform	865-49-6	60 - 100	
Supplier notification	Lo Temp Cal Methanol	67-56-1	60 - 100
	Hi Temp Cal Ethanediol	107-21-1	60 - 100
	1H S/N (² H)Chloroform	865-49-6	60 - 100
	Ethylbenzene	100-41-4	<0.1
	1H Lineshape Trichloromethane	67-66-3	0.1 - 1
	ID 1 (² H)Chloroform	865-49-6	60 - 100
	Iodomethane (¹³ C)	4227-95-6	0.1 - 1
ID 2 Benzamide (¹⁵ N)	31656-62-9	1 - 5	
App Test - Indanone (² H)Chloroform	865-49-6	60 - 100	

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: METHANOL; ETHYLENE GLYCOL; CHLOROFORM; ACETONE

New York

: The following components are listed: Methanol; Ethylene glycol; Chloroform; Methane, trichloro-; Acetone; 2-Propanone; Chloroform; Methane, trichloro-

New Jersey

: The following components are listed: METHYL ALCOHOL; METHANOL; ETHYLENE GLYCOL; 1,2-ETHANEDIOL; CHLOROFORM; METHANE, TRICHLORO-; DIMETHYL SULFOXIDE; METHANE, SULFINYLBI-; ACETONE; 2-PROPANONE; CHLOROFORM; METHANE, TRICHLORO-

Section 15. Regulatory information

Pennsylvania : The following components are listed: METHANOL; 1,2-ETHANEDIOL; METHANE, TRICHLORO-; di[(²H₃)Methyl] sulphoxide; 2-PROPANONE; 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.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Lo Temp Cal Methanol	No.	Yes.	No.	23000 µg/day (ingestion) 47000 µg/day (inhalation)
1H S/N (² H)Chloroform	Yes.	Yes.	20 µg/day (ingestion) 40 µg/day (inhalation)	No.
Ethylbenzene	Yes.	No.	41 µg/day (ingestion) 54 µg/day (inhalation)	No.
1H Lineshape Trichloromethane	Yes.	Yes.	20 µg/day (ingestion) 40 µg/day (inhalation)	No.
ID 1 (² H)Chloroform	Yes.	Yes.	20 µg/day (ingestion) 40 µg/day (inhalation)	No.
Iodomethane (¹³ C)	Yes.	No.	No.	No.
Autotest, no salt Methanol (¹³ C)	No.	Yes.	No.	No.
App Test - Indanone (² H)Chloroform	Yes.	Yes.	20 µg/day (ingestion) 40 µg/day (inhalation)	No.

Canada inventory : Not determined.

International regulations

International lists :

- 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.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Section 15. Regulatory information

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 : 02/27/2014.

Date of previous issue : No previous validation.

Version : 2

✔ Indicates information that has changed from previously issued version.

Notice to reader

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