

# SAFETY DATA SHEET



Dioxin Analyzer Standard, Part Number G3440-85039

## Section 1. Identification

### 1.1 Product identifier

**Product name** : Dioxin Analyzer Standard, Part Number G3440-85039  
**Part No. (Chemical Kit)** : G3440-85039  
**Part No.** : Dioxin/Furan/DL-PCB Check Standard G3440-85039-1  
 DL/NDL-PCB Check Standard G3440-85039-2  
**Validation date** : 10/20/2016

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

**Material uses** : Analytical chemistry.  
 Dioxin/Furan/DL-PCB Check Standard 1 ml  
 DL/NDL-PCB Check Standard 1 ml

### 1.3 Details of the supplier of the safety data sheet

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

### 1.4 Emergency telephone number

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

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

**OSHA/HCS status** : Dioxin/Furan/DL-PCB Check Standard This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
 DL/NDL-PCB Check Standard This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification of the substance or mixture

#### Dioxin/Furan/DL-PCB Check Standard

H226 FLAMMABLE LIQUIDS - Category 3  
 H315 SKIN IRRITATION - Category 2  
 H319 EYE IRRITATION - Category 2A  
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
 H304 ASPIRATION HAZARD - Category 1

#### DL/NDL-PCB Check Standard

H226 FLAMMABLE LIQUIDS - Category 2  
 H315 SKIN IRRITATION - Category 2  
 H319 EYE IRRITATION - Category 2A  
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
 H304 ASPIRATION HAZARD - Category 1

## Section 2. Hazards identification

### 2.2 GHS label elements

#### Hazard pictograms



#### Signal word

: Dioxin/Furan/DL-PCB Check Standard  
DL/NDL-PCB Check Standard

Danger

#### Hazard statements

: Dioxin/Furan/DL-PCB Check Standard

Danger

GHS SYMBOL - **Flame - Exclamation mark - Health hazard** -

H226 - Flammable liquid and vapor.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H304 - May be fatal if swallowed and enters airways.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

DL/NDL-PCB Check Standard

GHS SYMBOL - **Flame - Exclamation mark - Health hazard** -

H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H304 - May be fatal if swallowed and enters airways.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

#### Precautionary statements

##### Prevention

: Dioxin/Furan/DL-PCB Check Standard

P280 - Wear protective gloves. Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.

P261 - Avoid breathing vapor.

P264 - Wash hands thoroughly after handling.

DL/NDL-PCB Check Standard

P280 - Wear protective gloves. Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.

## Section 2. Hazards identification

### Response

:  Dioxin/Furan/DL-PCB Check Standard

P261 - Avoid breathing vapor.  
 P264 - Wash hands thoroughly after handling.  
 P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.  
 P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.  
 P332 + P313 - If skin irritation occurs: Get medical attention.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical attention.  
 P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.  
 P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.  
 P332 + P313 - If skin irritation occurs: Get medical attention.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical attention.

DL/NDL-PCB Check Standard

### Storage

: Dioxin/Furan/DL-PCB Check Standard

P405 - Store locked up.

DL/NDL-PCB Check Standard

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

### Disposal

: Dioxin/Furan/DL-PCB Check Standard

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

DL/NDL-PCB Check Standard

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

## Section 2. Hazards identification

**Supplemental label elements** :  Dioxin/Furan/DL-PCB Check Standard None known.  
DL/NDL-PCB Check Standard None known.

### 2.3 Other hazards

**Hazards not otherwise classified** :  Dioxin/Furan/DL-PCB Check Standard None known.  
DL/NDL-PCB Check Standard None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Dioxin/Furan/DL-PCB Check Standard Mixture  
DL/NDL-PCB Check Standard Mixture

Ingredient name	%	CAS number
<input checked="" type="checkbox"/> Dioxin/Furan/DL-PCB Check Standard nonane	≥90	111-84-2
<b>DL/NDL-PCB Check Standard</b> 2,2,4-trimethylpentane	≥90	540-84-1

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

<b>Eye contact</b>	: Dioxin/Furan/DL-PCB Check Standard	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.
	DL/NDL-PCB Check Standard	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.
<b>Inhalation</b>	: Dioxin/Furan/DL-PCB Check Standard	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.
	DL/NDL-PCB Check Standard	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is

## Section 4. First aid measures

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.

### Skin contact

:  Dioxin/Furan/DL-PCB Check Standard

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.

DL/NDL-PCB Check Standard

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

: Dioxin/Furan/DL-PCB Check Standard

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.



DL/NDL-PCB Check Standard

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.


### 4.2 Most important symptoms/effects, acute and delayed

#### Potential acute health effects

## Section 4. First aid measures

<b>Eye contact</b>	: Dioxin/Furan/DL-PCB Check Standard	Causes serious eye irritation.
	DL/NDL-PCB Check Standard	Causes serious eye irritation.
<b>Inhalation</b>	: Dioxin/Furan/DL-PCB Check Standard	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
	DL/NDL-PCB Check Standard	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
<b>Skin contact</b>	:  Dioxin/Furan/DL-PCB Check Standard	Causes skin irritation.
	DL/NDL-PCB Check Standard	Causes skin irritation.
<b>Ingestion</b>	:  Dioxin/Furan/DL-PCB Check Standard	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
	DL/NDL-PCB Check Standard	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

### Over-exposure signs/symptoms

<b>Eye contact</b>	: Dioxin/Furan/DL-PCB Check Standard	Adverse symptoms may include the following:  pain or irritation watering redness
	DL/NDL-PCB Check Standard	Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: Dioxin/Furan/DL-PCB Check Standard	Adverse symptoms may include the following:  respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	DL/NDL-PCB Check Standard	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Skin contact</b>	:  Dioxin/Furan/DL-PCB Check Standard	Adverse symptoms may include the following:  irritation redness
	DL/NDL-PCB Check Standard	Adverse symptoms may include the following: irritation redness

## Section 4. First aid measures

<b>Ingestion</b>	: Dioxin/Furan/DL-PCB Check Standard	Adverse symptoms may include the following: nausea or vomiting
	DL/NDL-PCB Check Standard	Adverse symptoms may include the following: nausea or vomiting

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

<b>Notes to physician</b>	: Dioxin/Furan/DL-PCB Check Standard	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	DL/NDL-PCB Check Standard	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: Dioxin/Furan/DL-PCB Check Standard	No specific treatment.
	DL/NDL-PCB Check Standard	No specific treatment.
<b>Protection of first-aiders</b>	: Dioxin/Furan/DL-PCB Check Standard	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	DL/NDL-PCB Check Standard	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Dioxin/Furan/DL-PCB Check Standard	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	DL/NDL-PCB Check Standard	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Unsuitable extinguishing media</b>	: Dioxin/Furan/DL-PCB Check Standard	Do not use water jet.
	DL/NDL-PCB Check Standard	Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	: Dioxin/Furan/DL-PCB Check Standard	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 explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	DL/NDL-PCB Check Standard	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

## Section 5. Fire-fighting measures

### Hazardous thermal decomposition products

: Dioxin/Furan/DL-PCB Check Standard

flash back. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Decomposition products may include the following materials:

carbon dioxide  
carbon monoxide

DL/NDL-PCB Check Standard

Decomposition products may include the following materials:

carbon dioxide  
carbon monoxide

### 5.3 Advice for firefighters

#### Special protective actions for fire-fighters

: Dioxin/Furan/DL-PCB Check Standard

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

DL/NDL-PCB Check Standard

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

#### Special protective equipment for fire-fighters

: Dioxin/Furan/DL-PCB Check Standard

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

DL/NDL-PCB Check Standard

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

: Dioxin/Furan/DL-PCB Check Standard

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

DL/NDL-PCB Check Standard

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




## Section 6. Accidental release measures

<p><b>For emergency responders</b> : Dioxin/Furan/DL-PCB Check Standard</p> <p>DL/NDL-PCB Check Standard</p>	<p>appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
<p><b>6.2 Environmental precautions</b> :  Dioxin/Furan/DL-PCB Check Standard</p> <p>DL/NDL-PCB Check Standard</p>	<p>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). Water polluting material. May be harmful to the environment if released in large quantities.</p> <p>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). Water polluting material. May be harmful to the environment if released in large quantities.</p>
<p><b>6.3 Methods and materials for containment and cleaning up</b></p> <p><b>Methods for cleaning up</b> : Dioxin/Furan/DL-PCB Check Standard</p> <p>DL/NDL-PCB Check Standard</p>	<p>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.</p> <p>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.</p>

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

<p><b>Protective measures</b> :  Dioxin/Furan/DL-PCB Check Standard</p>	<p>Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. 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</p>
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## Section 7. Handling and storage

	DL/NDL-PCB Check Standard	<p>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.</p> <p>Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. 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.</p>
<p><b>Advice on general occupational hygiene</b></p>	<p>:  Dioxin/Furan/DL-PCB Check Standard</p> <p>DL/NDL-PCB Check Standard</p>	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p> <p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
<p><b>7.2 Conditions for safe storage, including any incompatibilities</b></p>	<p>: Dioxin/Furan/DL-PCB Check Standard</p> <p>DL/NDL-PCB Check Standard</p>	<p>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.</p> <p>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</p>

## Section 7. Handling and storage

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.

### 7.3 Specific end use(s)

<b>Recommendations</b>	: Dioxin/Furan/DL-PCB Check Standard	Industrial applications, Professional applications.
	: DL/NDL-PCB Check Standard	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: <input checked="" type="checkbox"/> Dioxin/Furan/DL-PCB Check Standard	Not applicable.
	: DL/NDL-PCB Check Standard	Not applicable.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> Dioxin/Furan/DL-PCB Check Standard nonane	<p><b>ACGIH TLV (United States, 3/2016).</b> TWA: 200 ppm 8 hours. TWA: 1050 mg/m<sup>3</sup> 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 200 ppm 8 hours. TWA: 1050 mg/m<sup>3</sup> 8 hours.</p> <p><b>NIOSH REL (United States, 10/2013).</b> TWA: 200 ppm 10 hours. TWA: 1050 mg/m<sup>3</sup> 10 hours.</p>
<b>DL/NDL-PCB Check Standard</b> 2,2,4-trimethylpentane	<p><b>ACGIH TLV (United States, 3/2016).</b> TWA: 300 ppm 8 hours.</p>

### 8.2 Exposure controls

<b>Appropriate engineering controls</b>	: 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.
<b>Environmental exposure controls</b>	: 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

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

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: Dioxin/Furan/DL-PCB Check Standard	Liquid.
	: DL/NDL-PCB Check Standard	Liquid.
<b>Color</b>	: Dioxin/Furan/DL-PCB Check Standard	Not available.
	: DL/NDL-PCB Check Standard	Not available.
<b>Odor</b>	: Dioxin/Furan/DL-PCB Check Standard	Not available.
	: DL/NDL-PCB Check Standard	Not available.
<b>Odor threshold</b>	: Dioxin/Furan/DL-PCB Check Standard	Not available.
	: DL/NDL-PCB Check Standard	Not available.
<b>pH</b>	: Dioxin/Furan/DL-PCB Check Standard	Not available.
	: DL/NDL-PCB Check Standard	Not available.
<b>Melting point</b>	: Dioxin/Furan/DL-PCB Check Standard	-53°C (-63.4°F)
	: DL/NDL-PCB Check Standard	-107°C (-160.6°F)
<b>Boiling point</b>	: Dioxin/Furan/DL-PCB Check Standard	151°C (303.8°F)
	: DL/NDL-PCB Check Standard	98 to 99°C (208.4 to 210.2°F)
<b>Flash point</b>	: Dioxin/Furan/DL-PCB Check Standard	Closed cup: 31°C (87.8°F)
	: DL/NDL-PCB Check Standard	Closed cup: -12°C (10.4°F)

## Section 9. Physical and chemical properties

<b>Evaporation rate</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Not available. Not available.
<b>Flammability (solid, gas)</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Not applicable. Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: Dioxin/Furan/DL-PCB Check Standard  DL/NDL-PCB Check Standard	Lower: 0.87%  Upper: 2.9% Lower: 1% Upper: 6%
<b>Vapor pressure</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Not available. 5.5 kPa (41 mm Hg) [room temperature]
<b>Vapor density</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Not available. 3.94 [Air = 1]
<b>Relative density</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Not available. Not available.
<b>Solubility</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Insoluble in the following materials: cold water and hot water. Insoluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Not available. Not available.
<b>Auto-ignition temperature</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	205°C (401°F) 396°C (744.8°F)
<b>Decomposition temperature</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Not available. Not available.
<b>Viscosity</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Not available. Not available.

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

## Section 10. Stability and reactivity

<b>10.4 Conditions to avoid</b>	: Dioxin/Furan/DL-PCB Check Standard	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.
	DL/NDL-PCB Check Standard	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.
<b>10.5 Incompatible materials</b>	: Dioxin/Furan/DL-PCB Check Standard	Reactive or incompatible with the following materials: oxidizing materials
	DL/NDL-PCB Check Standard	Reactive or incompatible with the following materials: oxidizing materials
<b>10.6 Hazardous decomposition products</b>	: Dioxin/Furan/DL-PCB Check Standard	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	DL/NDL-PCB Check Standard	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
<b>Dioxin/Furan/DL-PCB Check Standard</b> nonane	LC50 Inhalation Vapor LD50 Oral	Rat Rat - Male, Female	3200 ppm >5000 mg/kg	4 hours -
<b>DL/NDL-PCB Check Standard</b> 2,2,4-trimethylpentane	LC50 Inhalation Vapor LD50 Oral	Rat - Male, Female Rat - Male, Female	>33.52 mg/l >5000 mg/kg	4 hours -

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Dioxin/Furan/DL-PCB Check Standard</b> nonane	Skin - Moderate irritant	Rat	-	96 hours 300 microliters	-

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

## Section 11. Toxicological information

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<b>Dioxin/Furan/DL-PCB Check Standard</b> nonane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
<b>DL/NDL-PCB Check Standard</b> 2,2,4-trimethylpentane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Name	Result
<b>Dioxin/Furan/DL-PCB Check Standard</b> Dioxin/Furan/DL-PCB Check Standard nonane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
<b>DL/NDL-PCB Check Standard</b> DL/NDL-PCB Check Standard 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure** : Dioxin/Furan/DL-PCB Check Standard  
DL/NDL-PCB Check Standard

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

**Eye contact** : Dioxin/Furan/DL-PCB Check Standard  
DL/NDL-PCB Check Standard

Causes serious eye irritation.

Causes serious eye irritation.

**Inhalation** : Dioxin/Furan/DL-PCB Check Standard  
DL/NDL-PCB Check Standard

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

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

**Skin contact** : **Dioxin/Furan/DL-PCB Check Standard**  
DL/NDL-PCB Check Standard

Causes skin irritation.

Causes skin irritation.

## Section 11. Toxicological information

<b>Ingestion</b>	: Dioxin/Furan/DL-PCB Check Standard	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
	: DL/NDL-PCB Check Standard	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

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

<b>Eye contact</b>	: Dioxin/Furan/DL-PCB Check Standard	Adverse symptoms may include the following:  pain or irritation watering redness
	: DL/NDL-PCB Check Standard	Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: Dioxin/Furan/DL-PCB Check Standard	Adverse symptoms may include the following:  respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	: DL/NDL-PCB Check Standard	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Skin contact</b>	: Dioxin/Furan/DL-PCB Check Standard	Adverse symptoms may include the following:  irritation redness
	: DL/NDL-PCB Check Standard	Adverse symptoms may include the following: irritation redness
<b>Ingestion</b>	: Dioxin/Furan/DL-PCB Check Standard	Adverse symptoms may include the following:  nausea or vomiting
	: DL/NDL-PCB Check Standard	Adverse symptoms may include the following: nausea or vomiting

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.



## Section 11. Toxicological information

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

<b>Other information</b>	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking. Adverse symptoms sometimes include the following: Repeated exposure may cause skin dryness or cracking.
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## Section 12. Ecological information

### 12.1 Toxicity

Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Dioxin/Furan/DL-PCB Check Standard nonane	5.65	105	low
DL/NDL-PCB Check Standard 2,2,4-trimethylpentane	4.08	231	low

## Section 12. Ecological information

### 12.4 Mobility in soil

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

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

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

### 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 4(a) final test rules:** nonane  
**TSCA 5(a)2 final significant new use rules:** 1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-  
**TSCA 6 final risk management:** Biphenyl, 3,3',4,4',5,5'-hexachloro-; 1,1'-Biphenyl, 3,3',4,4',5-pentachloro-; Biphenyl, 2,3,3',4,4'-pentachloro-; 1,1'-Biphenyl, 3,4,4',5-tetrachloro-; Biphenyl, 3,3',4,4'-tetrachloro-; 1,1'-Biphenyl, 2,2',3,4,4',5,5'-heptachloro-; 2,2',3,4,4',5'-Hexachlorobiphenyl; 1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-; 1,1'-Biphenyl, 2,2',4,5,5'-pentachloro-; 2,2',5,5'-Tetrachlorobiphenyl; 2,4,4'-trichlorobiphenyl; 1,1'-Biphenyl, 2,3,3',4,4',5,5'-heptachloro-; 2,3,3',4,4',5'-hexachlorobiphenyl; 1,1'-Biphenyl, 2,3,3',4,4',5-hexachloro-; 2,3',4,4',5,5'-hexachlorobiphenyl; 1,1'-Biphenyl, 2,3,4,4',5-pentachloro-; 1,1'-Biphenyl, 2,3',4,4',5-pentachloro-; 2,3',4,4',5'-Pentachloro-1,1'-biphenyl  
**TSCA 8(a) PAIR:** nonane

## Section 15. Regulatory information

**TSCA 12(b) one-time export:** nonane

**United States inventory (TSCA 8b):** Not determined.

**Clean Water Act (CWA) 307:** Biphenyl, 3,3',4,4',5,5'-hexachloro-; 1,1'-Biphenyl, 3,3',4,4',5-pentachloro-; Biphenyl, 2,3,3',4,4'-pentachloro-; 1,1'-Biphenyl, 3,4,4',5-tetrachloro-; Biphenyl, 3,3',4,4'-tetrachloro-; 2,3,7,8-tetrachlorodibenzo[b,e][1,4]dioxin; 1,1'-Biphenyl, 2,2',3,4,4',5,5'-heptachloro-; 2,2',3,4,4',5'-Hexachlorobiphenyl; 1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-; 1,1'-Biphenyl, 2,2',4,5,5'-pentachloro-; 2,2',5,5'-Tetrachlorobiphenyl; 2,4,4'-trichlorobiphenyl; 1,1'-Biphenyl, 2,3,3',4,4',5,5'-heptachloro-; 2,3,3',4,4',5'-hexachlorobiphenyl; 1,1'-Biphenyl, 2,3,3',4,4',5-hexachloro-; 2,3',4,4',5,5'-hexachlorobiphenyl; 1,1'-Biphenyl, 2,3,4,4',5-pentachloro-; 1,1'-Biphenyl, 2,3',4,4',5-pentachloro-; 2,3',4,4',5'-Pentachloro-1,1'-biphenyl

**Clean Water Act (CWA) 311:** Biphenyl, 3,3',4,4',5,5'-hexachloro-; 1,1'-Biphenyl, 3,3',4,4',5-pentachloro-; Biphenyl, 2,3,3',4,4'-pentachloro-; 1,1'-Biphenyl, 3,4,4',5-tetrachloro-; Biphenyl, 3,3',4,4'-tetrachloro-; 1,1'-Biphenyl, 2,2',3,4,4',5,5'-heptachloro-; 2,2',3,4,4',5'-Hexachlorobiphenyl; 1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-; 1,1'-Biphenyl, 2,2',4,5,5'-pentachloro-; 2,2',5,5'-Tetrachlorobiphenyl; 2,4,4'-trichlorobiphenyl; 1,1'-Biphenyl, 2,3,3',4,4',5,5'-heptachloro-; 2,3,3',4,4',5'-hexachlorobiphenyl; 1,1'-Biphenyl, 2,3,3',4,4',5-hexachloro-; 2,3',4,4',5,5'-hexachlorobiphenyl; 1,1'-Biphenyl, 2,3,4,4',5-pentachloro-; 1,1'-Biphenyl, 2,3',4,4',5-pentachloro-; 2,3',4,4',5'-Pentachloro-1,1'-biphenyl

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

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

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

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Fire hazard  
Immediate (acute) health hazard

#### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
<b>Dioxin/Furan/DL-PCB Check Standard</b> nonane	≥90	Yes.	No.	No.	Yes.	No.
<b>DL/NDL-PCB Check Standard</b> 2,2,4-trimethylpentane	≥90	Yes.	No.	No.	Yes.	No.

### SARA 313

## Section 15. Regulatory information

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	<b>Dioxin/Furan/DL-PCB Check Standard</b>		
	Octachlorodibenzo-p-dioxin	3268-87-9	≤0.1
	Dibenzofuran, octachloro-	39001-02-0	≤0.1
	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	≤0.1
	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	≤0.1
	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	≤0.1
	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	≤0.1
	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	≤0.1
	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	≤0.1
	2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	<0.1
	1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	≤0.1
	1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	≤0.1
	1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	≤0.1
	2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	≤0.1
	1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	≤0.1
	1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	≤0.1
	Biphenyl, 3,3',4,4'-tetrachloro-	32598-13-3	<0.005
	1,1'-Biphenyl, 3,4,4',5-tetrachloro-	70362-50-4	<0.005
	Biphenyl, 2,3,3',4,4'-pentachloro-	32598-14-4	<0.005
	1,1'-Biphenyl, 3,3',4,4',5-pentachloro-	57465-28-8	<0.005
	Biphenyl, 3,3',4,4',5,5'-hexachloro-	32774-16-6	<0.005
	2,3,7,8-tetrachlorodibenzo[b,e][1,4]dioxin	1746-01-6	<0.1
	2,3,7,8-TETRACHLORO DIBENZOFURAN	51207-31-9	≤0.1
	<b>DL/NDL-PCB Check Standard</b>		
	1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	31508-00-6	<0.005
	Biphenyl, 2,3,3',4,4'-pentachloro-	32598-14-4	<0.005
	2,3',4,4',5'-Pentachloro-1,1'-biphenyl	65510-44-3	<0.005
	1,1'-Biphenyl, 2,3,4,4',5-pentachloro-	74472-37-0	<0.005
	2,3',4,4',5,5'-hexachlorobiphenyl	52663-72-6	<0.005
	1,1'-Biphenyl, 2,3,3',4,4',5-hexachloro-	38380-08-4	<0.005
	2,3,3',4,4',5'-hexachlorobiphenyl	69782-90-7	<0.005
	1,1'-Biphenyl, 2,3,3',4,4',5,5'-heptachloro-	39635-31-9	<0.005
	2,4,4'-trichlorobiphenyl	7012-37-5	<0.1
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	<0.005	
1,1'-Biphenyl, 2,2',4,5,5'-pentachloro-	37680-73-2	<0.005	
1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-	35065-27-1	<0.005	
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	<0.005	
1,1'-Biphenyl, 2,2',3,4,4',5,5'-heptachloro-	35065-29-3	<0.005	

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: NONANE; ISOOCTANE
- New York** : The following components are listed: 2,2,4-Trimethylpentane
- New Jersey** : The following components are listed: NONANE; ISOOCTANE; 2,2,4-TRIMETHYLPENTANE
- Pennsylvania** : The following components are listed: NONANE; PENTANE, 2,2,4-TRIMETHYL-
- 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.

## Section 15. Regulatory information

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
<b>Dioxin/Furan/DL-PCB Check Standard</b>				
Octachlorodibenzo-p-dioxin	Yes.	No.	No.	No.
Dibenzofuran, octachloro-	Yes.	No.	No.	No.
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	Yes.	No.	No.	No.
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	Yes.	No.	No.	No.
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	Yes.	No.	No.	No.
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	Yes.	No.	No.	No.
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Yes.	No.	No.	No.
1,2,3,7,8-Pentachlorodibenzofuran	Yes.	No.	No.	No.
2,3,4,7,8-Pentachlorodibenzofuran	Yes.	No.	No.	No.
1,2,3,4,7,8-Hexachlorodibenzofuran	Yes.	No.	No.	No.
1,2,3,6,7,8-Hexachlorodibenzofuran	Yes.	No.	No.	No.
1,2,3,7,8,9-Hexachlorodibenzofuran	Yes.	No.	No.	No.
2,3,4,6,7,8-Hexachlorodibenzofuran	Yes.	No.	No.	No.
1,2,3,4,6,7,8-Heptachlorodibenzofuran	Yes.	No.	No.	No.
1,2,3,4,7,8,9-Heptachlorodibenzofuran	Yes.	No.	No.	No.
Biphenyl, 3,3',4,4'-tetrachloro-	Yes.	Yes.	Yes.	No.
Biphenyl, 2,3,3',4,4'-pentachloro-	Yes.	Yes.	Yes.	No.
2,3,7,8-tetrachlorodibenzo[b,e][1,4]dioxin	Yes.	Yes.	Yes.	No.
2,3,7,8-TETRACHLORO DIBENZOFURAN	Yes.	No.	No.	No.
<b>DL/NDL-PCB Check Standard</b>				
1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	Yes.	Yes.	Yes.	No.
Biphenyl, 2,3,3',4,4'-pentachloro-	Yes.	Yes.	Yes.	No.
2,4,4'-trichlorobiphenyl	Yes.	Yes.	Yes.	No.
2,2',5,5'-Tetrachlorobiphenyl	Yes.	Yes.	Yes.	No.
1,1'-Biphenyl, 2,2',4,4',5,5'-pentachloro-	Yes.	Yes.	Yes.	No.
1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-	Yes.	Yes.	Yes.	No.
2,2',3,4,4',5'-Hexachlorobiphenyl	Yes.	Yes.	Yes.	No.
1,1'-Biphenyl, 2,2',3,4,4',5,5'-heptachloro-	Yes.	Yes.	Yes.	No.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Australia** : Not determined.

## Section 15. Regulatory information

<b>Canada inventory</b>	: Not determined.
<b>China</b>	: Not determined.
<b>Europe</b>	: Not determined.
<b>Japan</b>	: <input checked="" type="checkbox"/> <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Turkey</b>	: <input checked="" type="checkbox"/> Not determined.

## Section 16. Other information

### History

<b>Date of issue</b>	: 10/20/2016
<b>Date of previous issue</b>	: 11/24/2014.
<b>Version</b>	: 2

Indicates information that has changed from previously issued version.

### Notice to reader

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