

Section 2. Hazards identification

H410

AQUATIC HAZARD (LONG-TERM) - Category 1

2.2 GHS label elements

Hazard pictograms

: Dioxin/Furan/DL-PCB Check Standard



DL/NDL-PCB Check Standard

Signal word

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

Danger

Hazard statements

: Dioxin/Furan/DL-PCB Check Standard

Danger

H226 - Flammable liquid and vapor.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

H373 - May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS))

H410 - Very toxic to aquatic life with long lasting effects.

DL/NDL-PCB Check Standard

H225 - Highly flammable liquid and vapor.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H410 - Very toxic to aquatic life with long lasting effects.

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 or lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P273 - Avoid release to the environment.

P260 - Do not breathe vapor.

P264 - Wash thoroughly after handling.

DL/NDL-PCB Check Standard

P280 - Wear protective gloves.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 - Use explosion-proof electrical, ventilating or lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

Section 2. Hazards identification

Response	: Dioxin/Furan/DL-PCB Check Standard	<p>P273 - Avoid release to the environment. P261 - Avoid breathing vapor. P264 - Wash thoroughly after handling. P391 - Collect spillage.</p>
	DL/NDL-PCB Check Standard	<p>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. 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 advice or attention. P391 - Collect spillage. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.</p>
Storage	: Dioxin/Furan/DL-PCB Check Standard	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
	DL/NDL-PCB Check Standard	<p>P403 + P235 - Keep cool. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.</p>
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	<p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. None known.</p>
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
Dioxin/Furan/DL-PCB Check Standard		
nonane	≥90	111-84-2
2,2,4-trimethylpentane	≤0.3	540-84-1
DL/NDL-PCB Check Standard		
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 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	: 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.
Inhalation	: 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 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

Section 4. First aid measures

Skin contact

: Dioxin/Furan/DL-PCB Check Standard

DL/NDL-PCB Check Standard

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.

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

Ingestion

: Dioxin/Furan/DL-PCB Check Standard

DL/NDL-PCB Check Standard

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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.

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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

Eye contact

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

Causes serious eye irritation.

No known significant effects or critical hazards.

Inhalation

: Dioxin/Furan/DL-PCB Check Standard

DL/NDL-PCB Check Standard

Harmful if inhaled. 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.

Section 4. First aid measures

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

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

Notes to physician	: 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.
Specific treatments	: Dioxin/Furan/DL-PCB Check Standard	No specific treatment.
	DL/NDL-PCB Check Standard	No specific treatment.

Section 4. First aid measures

Protection of first-aiders	: 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. 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	

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The 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. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide

5.3 Advice for firefighters

Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: Dioxin/Furan/DL-PCB Check Standard	<p>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.</p> <p>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.</p>
	DL/NDL-PCB Check Standard	
Special protective equipment for fire-fighters	: Dioxin/Furan/DL-PCB Check Standard	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p> <p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	DL/NDL-PCB Check Standard	

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: Dioxin/Furan/DL-PCB Check Standard	<p>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.</p> <p>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.</p>
	DL/NDL-PCB Check Standard	
For emergency responders	: Dioxin/Furan/DL-PCB Check Standard	<p>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>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>
	DL/NDL-PCB Check Standard	

Section 6. Accidental release measures

6.2 Environmental precautions

: Dioxin/Furan/DL-PCB Check Standard

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. Collect spillage.

DL/NDL-PCB Check Standard

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. Collect spillage.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

: Dioxin/Furan/DL-PCB Check Standard

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

DL/NDL-PCB Check Standard

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

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

: Dioxin/Furan/DL-PCB Check Standard

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not swallow. Avoid contact with eyes, skin and clothing. 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.

DL/NDL-PCB Check Standard

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

Section 7. Handling and storage

<p>Advice on general occupational hygiene</p>	<p>: Dioxin/Furan/DL-PCB Check Standard</p> <p>DL/NDL-PCB Check Standard</p>	<p>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>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. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
<p>7.2 Conditions for safe storage, including any incompatibilities</p>	<p>: 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. See Section 10 for incompatible materials before handling or use.</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. See Section 10 for incompatible materials before handling or use.</p>

7.3 Specific end use(s)

Section 7. Handling and storage

Recommendations	: Dioxin/Furan/DL-PCB Check Standard	Industrial applications, Professional applications.
	: DL/NDL-PCB Check Standard	Industrial applications, Professional applications.
Industrial sector specific solutions	: Dioxin/Furan/DL-PCB Check Standard	Not available.
	: DL/NDL-PCB Check Standard	Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Dioxin/Furan/DL-PCB Check Standard nonane	ACGIH TLV (United States, 1/2024). TWA: 200 ppm 8 hours. TWA: 1050 mg/m ³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 200 ppm 8 hours. TWA: 1050 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 200 ppm 10 hours. TWA: 1050 mg/m ³ 10 hours. CAL OSHA PEL (United States, 5/2018). TWA: 1050 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
2,2,4-trimethylpentane	ACGIH TLV (United States, 1/2024). [Octane] TWA: 300 ppm 8 hours.
DL/NDL-PCB Check Standard 2,2,4-trimethylpentane	ACGIH TLV (United States, 1/2024). [Octane] TWA: 300 ppm 8 hours.

Biological exposure indices

No exposure indices known.

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.
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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 and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	Dioxin/Furan/DL-PCB Check Standard	Liquid.
	DL/NDL-PCB Check Standard	Liquid.
Color	Dioxin/Furan/DL-PCB Check Standard	Not available.
	DL/NDL-PCB Check Standard	Not available.
Odor	Dioxin/Furan/DL-PCB Check Standard	Not available.
	DL/NDL-PCB Check Standard	Not available.
Odor threshold	Dioxin/Furan/DL-PCB Check Standard	Not available.
	DL/NDL-PCB Check Standard	Not available.
pH	Dioxin/Furan/DL-PCB Check Standard	Not available.
	DL/NDL-PCB Check Standard	Not available.
Melting point/freezing point	Dioxin/Furan/DL-PCB Check Standard	-53°C (-63.4°F)
	DL/NDL-PCB Check Standard	-107°C (-160.6°F)
Boiling point, initial boiling point, and boiling range	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)
Flash point	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 and safety characteristics

Evaporation rate	: Dioxin/Furan/DL-PCB Check Standard	Not available.
	DL/NDL-PCB Check Standard	Not available.
Flammability	: Dioxin/Furan/DL-PCB Check Standard	Not applicable.
	DL/NDL-PCB Check Standard	Not applicable.
Lower and upper explosion limit/flammability limit	: Dioxin/Furan/DL-PCB Check Standard	Lower: 0.87%
		Upper: 2.9%
	DL/NDL-PCB Check Standard	Lower: 1%
		Upper: 6%
Vapor pressure	: DL/NDL-PCB Check Standard	5.5 kPa (41 mm Hg)

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Dioxin/Furan/DL-PCB Check Standard						
nonane	3.15026	0.42	-	18.076	2.4	-

Relative vapor density	: Dioxin/Furan/DL-PCB Check Standard	Not available.
	DL/NDL-PCB Check Standard	3.94 [Air = 1]

Relative density	: Dioxin/Furan/DL-PCB Check Standard	Not available.
	DL/NDL-PCB Check Standard	Not available.

Solubility(ies)	: Media	Result
	Dioxin/Furan/DL-PCB Check Standard	
	water	Insoluble
	DL/NDL-PCB Check Standard	
	water	Insoluble

Partition coefficient: n-octanol/water	: Dioxin/Furan/DL-PCB Check Standard	Not applicable.
	DL/NDL-PCB Check Standard	Not applicable.

Auto-ignition temperature	: Dioxin/Furan/DL-PCB Check Standard	205°C (401°F)
	DL/NDL-PCB Check Standard	396°C (744.8°F)

Decomposition temperature	: Dioxin/Furan/DL-PCB Check Standard	Not available.
	DL/NDL-PCB Check Standard	Not available.

Viscosity	: Dioxin/Furan/DL-PCB Check Standard	Not available.
	DL/NDL-PCB Check Standard	Not available.

Particle characteristics

Median particle size	: Dioxin/Furan/DL-PCB Check Standard	Not applicable.
	DL/NDL-PCB Check Standard	Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity	: 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.
10.2 Chemical stability	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: 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.
10.4 Conditions to avoid	: Dioxin/Furan/DL-PCB Check Standard 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. 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.
10.5 Incompatible materials	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Reactive or incompatible with the following materials: oxidizing materials Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Dioxin/Furan/DL-PCB Check Standard nonane	LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Oral	Rat Rat Rat - Male, Female	17000 mg/m ³ 3200 ppm >5000 mg/kg	4 hours 4 hours -
2,2,4-trimethylpentane	LC50 Inhalation Vapor LD50 Oral	Rat - Male, Female Rat - Male, Female	>33.52 mg/l >5000 mg/kg	4 hours -
DL/NDL-PCB Check Standard				

Section 11. Toxicological information

2,2,4-trimethylpentane	LC50 Inhalation Vapor	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-

Irritation/Corrosion

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

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Dioxin/Furan/DL-PCB Check Standard nonane	Category 3	-	Respiratory tract irritation
2,2,4-trimethylpentane	Category 3 Category 3	-	Narcotic effects Narcotic effects
DL/NDL-PCB Check Standard 2,2,4-trimethylpentane	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Dioxin/Furan/DL-PCB Check Standard nonane	Category 2	-	central nervous system (CNS)

Aspiration hazard

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

Section 11. Toxicological information

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, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Potential acute health effects		
Eye contact	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Causes serious eye irritation. No known significant effects or critical hazards.
Inhalation	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Harmful if inhaled. 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.
Skin contact	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Causes skin irritation. Causes skin irritation.
Ingestion	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

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

Section 11. Toxicological information

Ingestion	: 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.

Potential delayed effects : Not available.

Potential chronic health effects

General	: Dioxin/Furan/DL-PCB Check Standard DL/NDL-PCB Check Standard	May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards.
Carcinogenicity	: 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.
Mutagenicity	: 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.
Reproductive toxicity	: 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

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Dioxin/Furan/DL-PCB Check Standard Dioxin/Furan/DL-PCB Check Standard nonane	N/A N/A	N/A N/A	N/A N/A	17.0 17	N/A N/A

Other information	: Dioxin/Furan/DL-PCB Check Standard	Adverse symptoms may include the following: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
	: DL/NDL-PCB Check Standard	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.

Section 12. Ecological information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Dioxin/Furan/DL-PCB Check Standard			
nonane	-	-	Readily
2,2,4-trimethylpentane	-	-	Inherent
DL/NDL-PCB Check Standard			
2,2,4-trimethylpentane	-	-	Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Dioxin/Furan/DL-PCB Check Standard			
nonane	5.65	105	Low
2,2,4-trimethylpentane	4.08	231	Low
DL/NDL-PCB Check Standard			
2,2,4-trimethylpentane	4.08	231	Low

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

Section 13. Disposal considerations

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

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

IATA

[Additional information](#)

Remarks : De minimis quantities

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

[15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture](#)

U.S. Federal regulations : **TSCA 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, 2,3,3',4,4'-pentachloro-; 1,1'-Biphenyl, 2,3',4,4',5-pentachloro-; Biphenyl, 3,3',4,4'-tetrachloro-; Biphenyl, 3,3',4,4',5,5'-hexachloro-; 1,1'-Biphenyl, 3,3',4,4',5-pentachloro-; 1,1'-Biphenyl, 3,4,4',5-tetrachloro-; 1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-; 2,2',3,4,4',5'-Hexachlorobiphenyl; 1,1'-Biphenyl, 2,2',3,4,4',5,5'-heptachloro-; 2,2',5,5'-Tetrachlorobiphenyl; 1,1'-Biphenyl, 2,2',4,5,5'-pentachloro-; 1,1'-Biphenyl, 2,3,3',4,4',5-hexachloro-; 1,1'-Biphenyl, 2,3,3',4,4',5,5'-heptachloro-; 2,3',4,4',5,5'-hexachlorobiphenyl; 2,3',4,4',5'-Pentachloro-1,1'-biphenyl; 2,3,3',4,4',5'-hexachlorobiphenyl; 2,4,4'-trichlorobiphenyl; 1,1'-Biphenyl, 2,3,4,4',5-pentachloro-

TSCA 8(a) PAIR: nonane

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA 12(b) one-time export: nonane

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

Section 15. Regulatory information

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

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 : Dioxin/Furan/DL-PCB Check Standard

FLAMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (inhalation) - Category 4
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1
FLAMMABLE LIQUIDS - Category 2
SKIN IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
ASPIRATION HAZARD - Category 1

DL/NDL-PCB Check Standard

Composition/information on ingredients

Name	%	Classification
Dioxin/Furan/DL-PCB Check Standard nonane	≥90	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Static-accumulating flammable liquid HNOC - Defatting irritant
DL/NDL-PCB Check Standard		

Section 15. Regulatory information

2,2,4-trimethylpentane	≥90	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Static-accumulating flammable liquid
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SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Dioxin/Furan/DL-PCB Check Standard		
	Octachlorodibenzo-p-dioxin	3268-87-9	<0.1
	Dibenzofuran, octachloro-	39001-02-0	<0.1
	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	<0.1
	Biphenyl, 3,3',4,4'-tetrachloro-	32598-13-3	<0.1
	Biphenyl, 2,3,3',4,4'-pentachloro-	32598-14-4	<0.005
	Biphenyl, 3,3',4,4',5,5'-hexachloro-	32774-16-6	<0.005
	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	<0.1
	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	<0.1
	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	≤0.1
	1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	<0.1
	2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	<0.1
	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	<0.1
	1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	<0.1
	1,1'-Biphenyl, 3,3',4,4',5-pentachloro-	57465-28-8	<0.005
	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	≤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
	1,1'-Biphenyl, 3,4,4',5-tetrachloro-	70362-50-4	<0.005
	1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	<0.1
	1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	<0.1
	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
	DL/NDL-PCB Check Standard		
	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
	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
	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, 2,3,3',4,4',5-hexachloro-	38380-08-4	<0.005
	1,1'-Biphenyl, 2,3,3',4,4',5,5'-heptachloro-	39635-31-9	<0.1
	2,3',4,4',5,5'-hexachlorobiphenyl	52663-72-6	<0.005
	2,3',4,4',5'-Pentachloro-1,1'-biphenyl	65510-44-3	<0.005
	2,3,3',4,4',5'-hexachlorobiphenyl	69782-90-7	<0.005
	2,4,4'-trichlorobiphenyl	7012-37-5	<0.1
	1,1'-Biphenyl, 2,3,4,4',5-pentachloro-	74472-37-0	<0.005
Supplier notification	Dioxin/Furan/DL-PCB Check Standard		
	Octachlorodibenzo-p-dioxin	3268-87-9	<0.1
	Dibenzofuran, octachloro-	39001-02-0	<0.1
	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	<0.1
	Biphenyl, 3,3',4,4'-tetrachloro-	32598-13-3	<0.1
	Biphenyl, 2,3,3',4,4'-pentachloro-	32598-14-4	<0.005
	Biphenyl, 3,3',4,4',5,5'-hexachloro-	32774-16-6	<0.005
	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	<0.1
	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	<0.1
	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	≤0.1
	1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	<0.1
	2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	<0.1
	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	<0.1

Section 15. Regulatory information

1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	<0.1
1,1'-Biphenyl, 3,3',4,4',5-pentachloro-	57465-28-8	<0.005
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	≤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
1,1'-Biphenyl, 3,4,4',5-tetrachloro-	70362-50-4	<0.005
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	<0.1
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	<0.1
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
DL/NDL-PCB Check Standard		
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
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
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, 2,3,3',4,4',5-hexachloro-	38380-08-4	<0.005
1,1'-Biphenyl, 2,3,3',4,4',5,5'-heptachloro-	39635-31-9	<0.1
2,3',4,4',5,5'-hexachlorobiphenyl	52663-72-6	<0.005
2,3',4,4',5'-Pentachloro-1,1'-biphenyl	65510-44-3	<0.005
2,3,3',4,4',5'-hexachlorobiphenyl	69782-90-7	<0.005
2,4,4'-trichlorobiphenyl	7012-37-5	<0.1
1,1'-Biphenyl, 2,3,4,4',5-pentachloro-	74472-37-0	<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: ISOCTANE; NONANE
New York	: The following components are listed: 2,2,4-Trimethylpentane
New Jersey	: The following components are listed: ISOCTANE; NONANE
Pennsylvania	: The following components are listed: PENTANE, 2,2,4-TRIMETHYL-; NONANE

California Prop. 65

⚠ WARNING: This product can expose you to chemicals including Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls, Polychlorinated biphenyls and 2,3,7,8-Tetrachlorodibenzo-p-dioxin, which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Polychlorinated dibenzo-p-dioxins, Polychlorinated dibenzofurans, Polychlorinated dibenzo-p-dioxins, Polychlorinated dibenzo-p-dioxins, Polychlorinated dibenzo-p-dioxins, Polychlorinated dibenzofurans, Polychlorinated dibenzofurans, Polychlorinated dibenzofurans, Polychlorinated dibenzofurans, Polychlorinated dibenzo-p-dioxins, Polychlorinated dibenzofurans, Polychlorinated dibenzofurans, Polychlorinated dibenzofurans, Polychlorinated dibenzofurans and Polychlorinated dibenzofurans, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Section 15. Regulatory information

Ingredient name	No significant risk level	Maximum acceptable dosage level
Dioxin/Furan/DL-PCB Check Standard Polychlorinated dibenzo-p-dioxins Polychlorinated dibenzofurans Polychlorinated dibenzo-p-dioxins Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated dibenzo-p-dioxins Polychlorinated dibenzo-p-dioxins Polychlorinated dibenzo-p-dioxins Polychlorinated dibenzofurans Polychlorinated dibenzofurans Polychlorinated dibenzofurans Polychlorinated dibenzofurans Polychlorinated biphenyls Polychlorinated dibenzo-p-dioxins Polychlorinated dibenzofurans Polychlorinated dibenzofurans Polychlorinated biphenyls Polychlorinated dibenzofurans Polychlorinated dibenzofurans 2,3,7,8-Tetrachlorodibenzo-p-dioxin Polychlorinated dibenzofurans	- - - Yes. Yes. Yes. - - - - - - - Yes. - - - Yes. - - - Yes. -	- -
DL/NDL-PCB Check Standard Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls	Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes.	- - - - - - - - - - - - - -

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

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.

Section 15. Regulatory information

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Japan	: Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Dioxin/Furan/DL-PCB Check Standard FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Expert judgment Calculation method Calculation method
DL/NDL-PCB Check Standard FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1	On basis of test data Calculation method Calculation method Expert judgment Calculation method Calculation method

History

Date of issue/Date of revision	: 10/29/2024
Date of previous issue	: 10/18/2023
Version	: 6
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

Section 16. Other information

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

UN = United Nations

 Indicates information that has changed from previously issued version.

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