Conforms to US OSHA Hazard Communication 29CFR1910.1200

SAFETY DATA SHEET

Agilent Technologies

Organochlorine Pesticides Mixture, Part Number 8500-5926

Section 1. Identification

1.1 Product identifier

Product name : Organochlorine Pesticides Mixture, Part Number 8500-5926

Part no. : 8500-5926

Validation date : 1/30/2024

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

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use
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 : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

H225	FLAMMABLE LIQUIDS - Category 2
H315	SKIN IRRITATION - Category 2
H319	EYE IRRITATION - Category 2A
H350	CARCINOGENICITY - Category 1A
H362	TOXIC TO REPRODUCTION - Effects on or via lactation
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
H400	AQUATIC HAZARD (ACUTE) - Category 1
H410	AQUATIC HAZARD (LONG-TERM) - Category 1

2.2 GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H225 - Highly flammable liquid and vapor.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H350 - May cause cancer.
H362 - May cause harm to breast-fed children.

Section 2. Hazards identification

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

Precautionary statements

Prevention : P201 - Obtain special instructions before use.
P280 - Wear protective gloves, protective clothing and 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.
P261 - Avoid breathing vapor.
P263 - Avoid contact during pregnancy or while nursing.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash thoroughly after handling.

Response : P391 - Collect spillage.
P308 + P313 - IF exposed or concerned: Get medical advice or attention.
P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
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.

Storage : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 - Keep cool.

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

2.3 Other hazards

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
tert-Butyl methyl ether	≥90	1634-04-4
Aldrin (ISO)	≤0.3	309-00-2
Heptachlor (ISO)	≤0.3	76-44-8
Endrin (ISO)	≤0.3	72-20-8
Endosulfan sulfate	≤0.3	1031-07-8
beta-Endosulfan	≤0.3	33213-65-9
6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a, 6,9,9a-hexahydro-, 3-oxide, (3.alpha.,5a.beta.,6.alpha.,9.alpha.,9a.beta.)-	≤0.3	959-98-8
Dieldrin (ISO)	≤0.3	60-57-1
DDT	≤0.3	50-29-3
2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene	≤0.3	72-55-9
TDE	≤0.3	72-54-8
(1α,2α,3α,4 ,5α,6)-1,2,3,4,5,6- Hexachlorocyclohexane	≤0.3	319-86-8

Section 3. Composition/information on ingredients

Gamma-HCH or gamma-BHC	≤0.3	58-89-9
(1α,2 ,3α,4 ,5α,6)-1,2,3,4,5,6- Hexachlorocyclohexane	≤0.3	319-85-7
(1α,2α,3 ,4α,5 ,6)-1,2,3,4,5,6- Hexachlorocyclohexane	≤0.3	319-84-6
Heptachlor epoxide	≤0.3	1024-57-3
Methoxychlor	≤0.3	72-43-5

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 : 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 : 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.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : 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. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

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

Skin contact : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

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

Section 4. First aid measures

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

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

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

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

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

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical : 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. 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 : 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 : 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 : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : 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 : 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 : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid contact during pregnancy or while nursing. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities : 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.

7.3 Specific end use(s)

Recommendations : Industrial applications, Professional applications.

Industrial sector specific solutions : Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
tert-Butyl methyl ether	**ACGIH TLV (United States, 1/2023).** TWA: 50 ppm 8 hours. **CAL OSHA PEL (United States, 5/2018).** TWA: 144 mg/m³ 8 hours. TWA: 40 ppm 8 hours.
Aldrin (ISO)	**OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 0.25 mg/m³ 8 hours. **NIOSH REL (United States, 10/2020).** **Absorbed through skin.** TWA: 0.25 mg/m³ 10 hours. **OSHA PEL (United States, 5/2018).** **Absorbed through skin.** TWA: 0.25 mg/m³ 8 hours. **ACGIH TLV (United States, 1/2023).** **Absorbed through skin.** TWA: 0.05 mg/m³ 8 hours. Form: Inhalable fraction and vapor **CAL OSHA PEL (United States, 5/2018).** **Absorbed through skin.** TWA: 0.25 mg/m³ 8 hours.
Heptachlor (ISO)	**ACGIH TLV (United States, 1/2023).** **Absorbed through skin.** TWA: 0.05 mg/m³ 8 hours. **OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 0.5 mg/m³ 8 hours. **NIOSH REL (United States, 10/2020).** **Absorbed through skin.** TWA: 0.5 mg/m³ 10 hours. **OSHA PEL (United States, 5/2018).** **Absorbed through skin.** TWA: 0.5 mg/m³ 8 hours. **CAL OSHA PEL (United States, 5/2018).** **Absorbed through skin.** TWA: 0.05 mg/m³ 8 hours.
Endrin (ISO)	

Section 8. Exposure controls/personal protection

	ACGIH TLV (United States, 1/2023). **Absorbed through skin.** TWA: 0.1 mg/m³ 8 hours. **OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 0.1 mg/m³ 8 hours. **NIOSH REL (United States, 10/2020).** **Absorbed through skin.** TWA: 0.1 mg/m³ 10 hours. **OSHA PEL (United States, 5/2018).** **Absorbed through skin.** TWA: 0.1 mg/m³ 8 hours. **CAL OSHA PEL (United States, 5/2018).** **Absorbed through skin.** TWA: 0.1 mg/m³ 8 hours.
Endosulfan sulfate	None.
beta-Endosulfan	None.
6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a, 6,9,9a-hexahydro-, 3-oxide, (3.alpha.,5a.beta.,6.alpha.,9.alpha.,9a.beta.)-	None.
Dieldrin (ISO)	**OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 0.03 mg/m³ 8 hours. **NIOSH REL (United States, 10/2020).** **Absorbed through skin.** TWA: 0.25 mg/m³ 10 hours. **OSHA PEL (United States, 5/2018).** **Absorbed through skin.** TWA: 0.25 mg/m³ 8 hours. **ACGIH TLV (United States, 1/2023).** **Absorbed through skin.** TWA: 0.1 mg/m³ 8 hours. Form: Inhalable fraction and vapor **CAL OSHA PEL (United States, 5/2018).** **Absorbed through skin.** TWA: 0.25 mg/m³ 8 hours.
DDT	**ACGIH TLV (United States, 1/2023).** TWA: 1 mg/m³ 8 hours. **OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 1 mg/m³ 8 hours. **NIOSH REL (United States, 10/2020).** TWA: 0.5 mg/m³ 10 hours. **OSHA PEL (United States, 5/2018).** **Absorbed through skin.** TWA: 1 mg/m³ 8 hours. **CAL OSHA PEL (United States, 5/2018).** **Absorbed through skin.** TWA: 1 mg/m³ 8 hours.
2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene	None.
TDE	None.
(1α,2α,3α,4 ,5α,6)-1,2,3,4,5,6- Hexachlorocyclohexane	None.
Gamma-HCH or gamma-BHC	**ACGIH TLV (United States, 1/2023).** **Absorbed through skin.** TWA: 0.5 mg/m³ 8 hours. **OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 0.5 mg/m³ 8 hours.

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	NIOSH REL (United States, 10/2020). **Absorbed through skin.** TWA: 0.5 mg/m³ 10 hours. **OSHA PEL (United States, 5/2018).** **Absorbed through skin.** TWA: 0.5 mg/m³ 8 hours. **CAL OSHA PEL (United States, 5/2018).** **Absorbed through skin.** TWA: 0.5 mg/m³ 8 hours.
(1α,2 ,3α,4 ,5α,6)-1,2,3,4,5,6- Hexachlorocyclohexane	None.
(1α,2α,3 ,4α,5 ,6)-1,2,3,4,5,6- Hexachlorocyclohexane	None.
Heptachlor epoxide	**ACGIH TLV (United States, 1/2023).** **Absorbed through skin.** TWA: 0.05 mg/m³ 8 hours.
Methoxychlor	**ACGIH TLV (United States, 1/2023).** TWA: 10 mg/m³ 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 10 mg/m³ 8 hours. Form: Total dust **OSHA PEL (United States, 5/2018).** TWA: 15 mg/m³ 8 hours. Form: Total dust **CAL OSHA PEL (United States, 5/2018).** TWA: 10 mg/m³ 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.

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.

Section 8. Exposure controls/personal protection

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 : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : Not available.

Melting point/freezing point : -109°C (-164.2°F)

Boiling point, initial boiling point, and boiling range : 55°C (131°F)

Flash point : Closed cup: -10°C (14°F) [Based on solvent.]

Evaporation rate : Not available.

Flammability : Not applicable.

Lower and upper explosion limit/flammability limit : Not available.

Vapor pressure :

Ingredient name	Vapor Pressure at 20˚C			Vapor pressure at 50˚C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
tert-Butyl methyl ether	247.5	33	OECD 104	-	-	-

Relative vapor density : Not available.

Relative density : Not available.

Solubility(ies) :

Media	Result
water	Partially soluble

Miscible with water : No.

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature :

Ingredient name	°C	°F	Method
tert-Butyl methyl ether	375	707	-

Decomposition temperature : Not available.

Viscosity : Not available.

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : 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.

10.5 Incompatible materials : Reactive or incompatible with the following materials:
oxidizing materials

10.6 Hazardous decomposition products : 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
tert-Butyl methyl ether	LC50 Inhalation Vapor	Rat	41000 mg/m³	4 hours
	LC50 Inhalation Vapor	Rat	23576 ppm	4 hours
	LD50 Oral	Rat	4 g/kg	-
Aldrin (ISO)	LD50 Dermal	Rabbit	15 mg/kg	-
	LD50 Dermal	Rat	98 mg/kg	-
	LD50 Oral	Rat	38 mg/kg	-
Heptachlor (ISO)	LD50 Dermal	Rabbit	500 mg/kg	-
Endosulfan sulfate	LD50 Oral	Rat	18 mg/kg	-
beta-Endosulfan	LD50 Oral	Rat	240 mg/kg	-
6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3.alpha.,5a.beta.,6.alpha.,9.alpha.,9a.beta.)-	LD50 Oral	Rat	76 mg/kg	-
Dieldrin (ISO)	LD50 Oral	Rat	38300 µg/kg	-
DDT	LD50 Dermal	Rabbit	300 mg/kg	-
	LD50 Dermal	Rat	250 mg/kg	-
	LD50 Oral	Rat	87 mg/kg	-
2,2-bis(p-Chlorophenyl) -1,1-dichloroethylene	LD50 Oral	Rat	880 mg/kg	-
TDE	LD50 Dermal	Rabbit	1200 mg/kg	-
	LD50 Oral	Rat	113 mg/kg	-
(1α,2α,3α,4 ,5α,6) -1,2,3,4,5,6-Hexachlorocyclohexane	LD50 Oral	Rat	1 g/kg	-
Gamma-HCH or gamma-BHC	LD50 Oral	Rat	76 mg/kg	-
(1α,2 ,3α,4 ,5α,6) -1,2,3,4,5,6-Hexachlorocyclohexane	LD50 Oral	Rat	6 g/kg	-
(1α,2α,3 ,4α,5 ,6) -1,2,3,4,5,6-Hexachlorocyclohexane	LD50 Oral	Rat	177 mg/kg	-
Heptachlor epoxide	LD50 Oral	Rat	15 mg/kg	-

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Methoxychlor	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	>6 g/kg >6 g/kg 1855 mg/kg	- - -

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
tert-Butyl methyl ether	-	3	-
Aldrin (ISO)	-	2A	-
Heptachlor (ISO)	-	2B	-
Endrin (ISO)	-	3	-
Dieldrin (ISO)	-	2A	-
DDT	-	2A	Reasonably anticipated to be a human carcinogen.
(1α,2α,3α,4 ,5α,6)-1,2,3,4,5,6-Hexachlorocyclohexane	-	2B	-
Gamma-HCH or gamma-BHC	-	1	Reasonably anticipated to be a human carcinogen.
(1α,2 ,3α,4 ,5α,6)-1,2,3,4,5,6-Hexachlorocyclohexane	-	2B	Reasonably anticipated to be a human carcinogen.
(1α,2α,3 ,4α,5 ,6)-1,2,3,4,5,6-Hexachlorocyclohexane	-	2B	Reasonably anticipated to be a human carcinogen.
Methoxychlor	-	3	-

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
tert-Butyl methyl ether	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene	Category 3	-	Respiratory tract irritation
Methoxychlor	Category 2	-	nervous system

Specific target organ toxicity (repeated exposure)

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Name	Category	Route of exposure	Target organs
Aldrin (ISO)	Category 1	-	-
Heptachlor (ISO)	Category 2	-	-
Dieldrin (ISO)	Category 1	-	-
DDT	Category 1	-	central nervous system (CNS), endocrine
Gamma-HCH or gamma-BHC	Category 2	-	-
(1α,2 ,3α,4 ,5α,6)-1,2,3,4,5,6- Hexachlorocyclohexane	Category 2	-	central nervous system (CNS), kidneys, liver
Heptachlor epoxide	Category 2	-	central nervous system (CNS), endocrine
Methoxychlor	Category 2	-	endocrine, liver

Aspiration hazard

Name	Result
(1α,2 ,3α,4 ,5α,6)-1,2,3,4,5,6- Hexachlorocyclohexane	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact : Causes serious eye irritation.

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

Skin contact : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

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

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

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

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

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : May cause harm to breast-fed children.

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)
Organochlorine Pesticides Mixture, Part Number 8500-5926	4091.9	N/A	N/A	N/A	N/A
tert-Butyl methyl ether	4000	N/A	N/A	41	N/A
Aldrin (ISO)	38	15	N/A	N/A	N/A
Heptachlor (ISO)	100	500	N/A	N/A	N/A
Endrin (ISO)	5	300	N/A	N/A	N/A
Endosulfan sulfate	18	N/A	N/A	N/A	N/A
beta-Endosulfan	240	N/A	N/A	N/A	N/A
6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3.alpha.,5a.beta.,6.alpha.,9.alpha.,9a.beta.)-	76	N/A	N/A	N/A	N/A
Dieldrin (ISO)	100	5	N/A	N/A	N/A
DDT	87	250	N/A	N/A	N/A
2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene	880	300	N/A	3	N/A
TDE	113	1200	N/A	N/A	N/A
(1α,2α,3α,4 ,5α,6)-1,2,3,4,5,6-Hexachlorocyclohexane	1000	1100	N/A	N/A	N/A
Gamma-HCH or gamma-BHC	76	1100	N/A	N/A	1.5
(1α,2 ,3α,4 ,5α,6)-1,2,3,4,5,6-Hexachlorocyclohexane	100	1100	N/A	N/A	N/A
(1α,2α,3 ,4α,5 ,6)-1,2,3,4,5,6-Hexachlorocyclohexane	177	1100	N/A	N/A	N/A
Heptachlor epoxide	15	N/A	N/A	N/A	N/A
Methoxychlor	1855	N/A	N/A	N/A	N/A

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
tert-Butyl methyl ether	Acute EC50 472 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 672000 µg/l Fresh water	Fish - *Pimephales promelas*	96 hours
	Chronic NOEC 26 mg/l Marine water	Daphnia	28 days
	Chronic NOEC 3.04 mg/l Fresh water	Fish	21 days
Aldrin (ISO)	Acute LC50 0.21 µg/l Fresh water	Crustaceans - *Paratelphusa jacquemontii* - Intermolt	48 hours
	Acute LC50 1000 µg/l Fresh water	Daphnia - *Daphnia magna*	48 hours
	Acute LC50 1.2 µg/l Fresh water	Fish - *Clarias batrachus*	96 hours
Heptachlor (ISO)	Acute EC50 42 µg/l Fresh water	Daphnia - *Daphnia pulex*	48 hours
	Acute LC50 28 µg/l Marine water	Crustaceans - *Crangon septemspinosa*	48 hours
	Acute LC50 0.8 µg/l Marine water	Fish - *Thalassoma bifasciatum*	96 hours
Endrin (ISO)	Acute LC50 0.0000011 µg/l Fresh water	Crustaceans - *Asellus aquaticus* - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 0.000022 µg/l Fresh water	Daphnia - *Daphnia pulex*	48 hours
	Acute LC50 0.048 µg/l Fresh water	Fish - *Oncorhynchus tshawytscha*	96 hours
	Chronic NOEC 0.12 µg/l Marine water	Fish - *Cyprinodon variegatus* - Embryo	4 weeks
Endosulfan sulfate	Acute LC50 0.1 to 1 ppm Marine water	Crustaceans - *Artemia salina* - Adult	48 hours
	Acute LC50 756 µg/l Fresh water	Daphnia - *Daphnia carinata* - Neonate	48 hours
	Acute LC50 1.4 µg/l Fresh water	Fish - *Oncorhynchus mykiss* - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 91.7 µg/l Fresh water	Daphnia - *Daphnia magna* - Neonate	21 days
beta-Endosulfan	Acute LC50 0.1 to 1 ppm Marine water	Crustaceans - *Artemia salina* - Adult	48 hours
	Acute LC50 205 µg/l Fresh water	Daphnia - *Daphnia carinata* - Neonate	48 hours
	Acute LC50 3.3 µg/l Fresh water	Fish - *Oncorhynchus mykiss* - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3.alpha.,5a.beta.,6.alpha.,9.alpha.,9a.beta.)-	Acute LC50 1 to 10 ppm Marine water	Crustaceans - *Artemia salina* - Adult	48 hours
	Acute LC50 249 µg/l Fresh water	Daphnia - *Daphnia carinata* - Neonate	48 hours
	Acute LC50 0.16 µg/l Fresh water	Fish - *Channa punctata*	96 hours
Dieldrin (ISO)	Acute EC50 0.9 µg/l Fresh water	Crustaceans - *Chlamydotheca arcuata* - Adult	48 hours
	Acute EC50 79.5 µg/l Fresh water	Daphnia - *Daphnia magna* - Neonate	48 hours
	Acute LC50 0.62 µg/l Fresh water	Fish - *Oncorhynchus mykiss* - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 0.032 mg/l Fresh water	Daphnia - *Daphnia magna*	21 days
	Chronic NOEC 0.0001 mg/l Marine water	Fish - *Pleuronectes platessa* - Egg	8 weeks
DDT	Acute EC50 0.0006 mg/l Marine water	Crustaceans - *Penaeus sp.* - Juvenile (Fledgling, Hatchling,	48 hours

Section 12. Ecological information

		Weanling)	
	Acute EC50 0.4 µg/l Fresh water	Daphnia - *Daphnia pulex*	48 hours
	Acute LC50 0.26 µg/l Marine water	Fish - *Micrometrus minimus*	96 hours
	Chronic NOEC 100 ppb Marine water	Algae - *Dunaliella tertiolecta* - Exponential growth phase	4 days
	Chronic NOEC 1 µg/l Fresh water	Daphnia - *Daphnia magna* - Neonate	21 days
2,2-bis(p-Chlorophenyl) -1,1-dichloroethylene	Acute EC50 28 µg/l Marine water	Crustaceans - *Penaeus aztecus* - Adult	48 hours
	Chronic NOEC 0.1 µg/l Fresh water	Fish - *Gobiocypris rarus* - Sexually mature	28 days
TDE	Acute LC50 1.8 µg/l Fresh water	Crustaceans - *Gammarus lacustris*	48 hours
	Acute LC50 2.5 µg/l Marine water	Fish - *Morone saxatilis* - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
(1α,2α,3α,4 ,5α,6) -1,2,3,4,5,6- Hexachlorocyclohexane	Acute LC50 700 µg/l Marine water	Fish - *Etroplus maculatus*	96 hours
Gamma-HCH or gamma-BHC	Acute EC50 1620 µg/l Fresh water	Algae - *Chlamydomonas reinhardtii*	4 days
	Acute EC50 0.00022 ppm Marine water	Crustaceans - *Penaeus aztecus*	48 hours
	Acute EC50 100 µg/l Fresh water	Daphnia - *Daphnia carinata* - Adult	48 hours
	Acute LC50 1.1 µg/l Fresh water	Fish - *Clarias batrachus*	96 hours
	Chronic EC10 0.5 mg/l Fresh water	Algae - *Desmodesmus subspicatus*	96 hours
	Chronic EC10 40 µg/l Fresh water	Daphnia - *Daphnia magna* - Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 0.000016 mg/l Fresh water	Fish - *Danio rerio*	28 days
(1α,2 ,3α,4 ,5α,6) -1,2,3,4,5,6- Hexachlorocyclohexane	Acute LC50 1100 µg/l Fresh water	Fish - *Paracheirodon axelrodi*	96 hours
	Chronic NOEC 32 µg/l Fresh water	Fish - *Poecilia reticulata* - Juvenile (Fledgling, Hatchling, Weanling)	4 weeks
(1α,2α,3 ,4α,5 ,6) -1,2,3,4,5,6- Hexachlorocyclohexane	Acute EC50 800 µg/l Fresh water	Daphnia - *Daphnia magna*	48 hours
	Acute EC50 320 µg/l Fresh water	Fish - *Oryzias latipes*	96 hours
	Chronic LC10 500 µg/l Marine water	Fish - *Poecilia reticulata*	35 days
Heptachlor epoxide	Acute LC50 240 µg/l Fresh water	Daphnia - *Daphnia magna*	48 hours
Methoxychlor	Acute EC50 0.23 µg/l Marine water	Crustaceans - *Cancer magister* - Zoea	48 hours
	Acute LC50 16 µg/l Fresh water	Daphnia - *Daphnia magna*	48 hours
	Acute LC50 2.54 µg/l Marine water	Fish - *Oncorhynchus tshawytscha*	96 hours
	Chronic NOEC 1 µg/l Fresh water	Daphnia - *Daphnia magna* - Neonate	21 days
	Chronic NOEC 0.2 to 2.3 µg/l Fresh water	Fish - *Oryzias latipes* - Larvae	28 days

12.2 Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
tert-Butyl methyl ether	OECD 301D Ready Biodegradability - Closed Bottle Test	0 % - Not readily - 28 days	-	Activated sludge

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
tert-Butyl methyl ether	-	50%; 3.2 day(s)	Not readily
Aldrin (ISO)	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
tert-Butyl methyl ether	1.04	1.5	Low
Aldrin (ISO)	6.5	5495.41	High
Heptachlor (ISO)	6.1	8709.64	High
Endrin (ISO)	5.2	7413.1	High
Endosulfan sulfate	3.66	-	Low
beta-Endosulfan	3.83	-	Low
6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3.alpha.,5a.beta.,6.alpha.,9.alpha.,9a.beta.)-	3.83	-	Low
Dieldrin (ISO)	5.4	8912.51	High
DDT	6.91	19498.45	High
2,2-bis(p-Chlorophenyl) -1,1-dichloroethylene	6.51	12022.64	High
TDE	6.02	-	High
(1α,2α,3α,4 ,5α,6) -1,2,3,4,5,6-Hexachlorocyclohexane	4.14	1778.28	High
Gamma-HCH or gamma-BHC	3.72	1148.15	High
(1α,2 ,3α,4 ,5α,6) -1,2,3,4,5,6-Hexachlorocyclohexane	3.78	1445.44	High
(1α,2α,3 ,4α,5 ,6) -1,2,3,4,5,6-Hexachlorocyclohexane	3.8	1445.44	High
Heptachlor epoxide	4.98	-	High
Methoxychlor	5.08	316.23	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.

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 / IATA : Not regulated.

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: Endrin (ISO)

TSCA 5(a)2 final significant new use rules: DDT

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

TSCA 12(b) one-time export: DDT

Clean Water Act (CWA) 307: Aldrin (ISO); Heptachlor (ISO); Endrin aldehyde; Endrin (ISO); Endosulfan sulfate; beta-Endosulfan; 6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3.alpha.,5a.beta.,6.alpha., 9.alpha.,9a.beta.)-; Dieldrin (ISO); DDT; 2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene; TDE; (1α,2α,3α,4 ,5α,6)-1,2,3,4,5,6- Hexachlorocyclohexane; Gamma-HCH or gamma-BHC; (1α,2 ,3α,4 ,5α,6)-1,2,3,4,5,6- Hexachlorocyclohexane; (1α,2α,3 ,4α,5 ,6) -1,2,3,4,5,6- Hexachlorocyclohexane; Heptachlor epoxide; Methoxychlor

Section 15. Regulatory information

Clean Water Act (CWA) 311: Aldrin (ISO); Heptachlor (ISO); Endrin (ISO); Dieldrin (ISO); DDT; TDE; Gamma-HCH or gamma-BHC; Methoxychlor

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

Name	%	EHS	SARA 302 TPQ (lbs)	SARA 302 TPQ (gallons)	SARA 304 RQ (lbs)	SARA 304 RQ (gallons)
Aldrin (ISO)	≤0.3	Yes.	500 / 10000	-	1	-
Endrin (ISO)	≤0.3	Yes.	500 / 10000	-	1	-
Gamma-HCH or gamma-BHC	≤0.3	Yes.	1000 / 10000	-	1	-

SARA 304 RQ : 757 lbs / 343.7 kg

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 2
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION - Effects on or via lactation
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Composition/information on ingredients

Name	%	Classification
tert-Butyl methyl ether	≥90	FLAMMABLE LIQUIDS - Category 2 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
Aldrin (ISO)	≤0.3	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
Heptachlor (ISO)	≤0.3	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Dieldrin (ISO)	≤0.3	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
DDT	≤0.3	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 CARCINOGENICITY - Category 2

Section 15. Regulatory information

2,2-bis(p-Chlorophenyl) -1,1-dichloroethylene	≤0.3	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
(1α,2α,3α,4 ,5α,6)-1,2,3,4,5,6-Hexachlorocyclohexane	≤0.3	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 CARCINOGENICITY - Category 2
Gamma-HCH or gamma-BHC	≤0.3	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Effects on or via lactation SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
(1α,2 ,3α,4 ,5α,6)-1,2,3,4,5,6-Hexachlorocyclohexane	≤0.3	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
(1α,2α,3 ,4α,5 ,6)-1,2,3,4,5,6-Hexachlorocyclohexane	≤0.3	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 4 CARCINOGENICITY - Category 2
Heptachlor epoxide	≤0.3	ACUTE TOXICITY (oral) - Category 2 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	tert-Butyl methyl ether	1634-04-4	≥90
	Aldrin (ISO)	309-00-2	≤0.3
	Heptachlor (ISO)	76-44-8	≤0.3
	Gamma-HCH or gamma-BHC	58-89-9	≤0.3
	(1α,2α,3 ,4α,5 ,6)-1,2,3,4,5,6-Hexachlorocyclohexane	319-84-6	≤0.3
	Methoxychlor	72-43-5	≤0.3
Supplier notification	tert-Butyl methyl ether	1634-04-4	≥90
	Aldrin (ISO)	309-00-2	≤0.3
	Heptachlor (ISO)	76-44-8	≤0.3
	Gamma-HCH or gamma-BHC	58-89-9	≤0.3
	(1α,2α,3 ,4α,5 ,6)-1,2,3,4,5,6-Hexachlorocyclohexane	319-84-6	≤0.3
	Methoxychlor	72-43-5	≤0.3

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: METHYL TERT-BUTYL ETHER

New York : The following components are listed: Methyl tert-butyl ether

New Jersey : The following components are listed: METHYL-tert-BUTYL ETHER; ALDRIN; HEPTACHLOR; ENDRIN; DIELDRIN; DDT; DDE; 1,1-DICHLORO-2,2-BIS(p-CHLOROPHENYL)ETHANE; delta-HEXACHLOROCYCLOHEXANE; LINDANE; beta-HEXACHLOROCYCLOHEXANE; alpha-HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE

Pennsylvania : The following components are listed: METHYL TERT-BUTYL ETHER

California Prop. 65

Section 15. Regulatory information

⚠ **WARNING**: This product can expose you to chemicals including Heptachlor, DDT and DDE, 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 Aldrin, Dieldrin, DDD, Hexachlorocyclohexane, Hexachlorocyclohexane (gamma isomer), Hexachlorocyclohexane (beta isomer), Hexachlorocyclohexane (alpha isomer) and Heptachlor epoxide, which are known to the State of California to cause cancer, and Endrin, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Aldrin	Yes.	-
Heptachlor	Yes.	-
Endrin	-	-
Dieldrin	Yes.	-
DDT	-	-
DDE	-	-
DDD	-	-
Hexachlorocyclohexane	Yes.	-
Hexachlorocyclohexane (gamma isomer)	Yes.	-
Hexachlorocyclohexane (beta isomer)	Yes.	-
Hexachlorocyclohexane (alpha isomer)	Yes.	-
Heptachlor epoxide	Yes.	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Ingredient name	List name	Status
aldrin	Annex A - Elimination - Production	Listed
heptachlor	-	Listed
endrin	-	Listed
technical endosulfan and its related isomers	-	Listed
technical endosulfan and its related isomers	-	Listed
dieldrin	-	Listed
lindane	-	Listed
beta hexachlorocyclohexane	-	Listed
alpha hexachlorocyclohexane	-	Listed
aldrin	Annex A - Elimination - Use	Listed
heptachlor	-	Listed
endrin	-	Listed
technical endosulfan and its related isomers	-	Listed
technical endosulfan and its related isomers	-	Listed
dieldrin	-	Listed
lindane	-	Listed
beta hexachlorocyclohexane	-	Listed
alpha hexachlorocyclohexane	-	Listed
DDT	Annex B - Restriction - Production	Listed
DDT	Annex B - Restriction - Use	Listed

Rotterdam Convention on Prior Informed Consent (PIC)

Section 15. Regulatory information

Ingredient name		Status
Aldrin; Rasayaldrin; HHDN; 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene	Pesticide	Listed
Heptachlor; Curasemillas; 1, 4, 5, 6, 7, 8, 8 - heptachloro - 3a, 4, 7, 7a - tetrahydro - 4, 7 - methanoindene; H34; 1,4,5,6,7,8,8-Heptachloro-3a, 4,7,7a-tetrahydro-4,7-methanol-IH-indene	-	Listed
Dieldrin; Alvit (Discontinued name); Dieldrine; HEOD; 3, 4, 5 , 6 , 0 ,9 - hexachloro - la, 2, 2a , 3, 6 ,6a , 7, 7a - octahydro 2, 3:3, 6 - dimethanonapth (2,3-b) -oxirene	-	Listed
DDT; Zerdane; NCI-C00464; 1,1,1-trichloro-2,2-bis (4-chlorophenyl) ethane	-	Listed
HCH (mixed isomers); Benzex; 1,2,3,4,5,6-Hexachlorocyclohexane; 666 (Denmark); BCH	-	Listed
Lindane; OMS17	-	Listed
HCH (mixed isomers); Benzex; 1,2,3,4,5,6-Hexachlorocyclohexane; 666 (Denmark); BCH	-	Listed
HCH (mixed isomers); Submar (India Medical); 1,2,3,4,5,6-Hexachlorocyclohexane; Hexachloran (USSR); FBHC (Discontinued name)	-	Listed

UNECE Aarhus Protocol on POPs and Heavy Metals

Ingredient name	List name	Status
aldrin	POPs - Annex 1 - Production	Listed
heptachlor	-	Listed
endrin	-	Listed
dieldrin	-	Listed
DDT	-	Listed
hexachlorocyclohexanes, including lindane	-	Listed
hexachlorocyclohexanes, including lindane	-	Listed
hexachlorocyclohexanes, including lindane	-	Listed
hexachlorocyclohexanes, including lindane	-	Listed
aldrin	POPs - Annex 1 - Use	Listed
heptachlor	-	Listed
endrin	-	Listed
dieldrin	-	Listed
DDT	-	Listed
hexachlorocyclohexanes, including lindane	-	Listed
hexachlorocyclohexanes, including lindane	-	Listed
hexachlorocyclohexanes, including lindane	-	Listed
hexachlorocyclohexanes, including lindane	-	Listed

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 : All components are listed or exempted.

Section 15. Regulatory information

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : All components are listed or exempted.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
TOXIC TO REPRODUCTION - Effects on or via lactation	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method

History

Date of issue/Date of revision : 01/30/2024

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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 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.

Notice to reader

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