SAFETY DATA SHEET

Agilent Technologies

Organochlorine Pesticides Mixture, Part Number 8500-5926

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

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

Part no. : 8500-5926

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

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.
5500 Lakeside Cheadle Royal Business Park,
Cheadle, Cheshire, SK8 3GR
United Kingdom
Tel: +44 (0) 345 712 5292

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

H225	FLAMMABLE LIQUIDS	Category 2
H315	SKIN CORROSION/IRRITATION	Category 2
H400	SHORT-TERM (ACUTE) AQUATIC HAZARD	Category 1
H410	LONG-TERM (CHRONIC) AQUATIC HAZARD	Category 1

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H225 - Highly flammable liquid and vapour.
H315 - Causes skin irritation.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

SECTION 2: Hazards identification

Prevention : P280 - Wear protective gloves.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 - Avoid release to the environment.
P264 - Wash thoroughly after handling.

Response : P391 - Collect spillage.

Storage : Not applicable.

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

Supplemental label elements : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
tert-butyl methyl ether	EC: 216-653-1 CAS: 1634-04-4 Index: 603-181-00-X	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315	[1] [2]
aldrin (ISO)	EC: 206-215-8 CAS: 309-00-2 Index: 602-048-00-3	≤0.13	Acute Tox. 3, H301 Acute Tox. 3, H311 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1]
heptachlor (ISO)	EC: 200-962-3 CAS: 76-44-8 Index: 602-046-00-2	≤0.13	Acute Tox. 3, H301 Acute Tox. 3, H311 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1]
endrin (ISO)	EC: 200-775-7 CAS: 72-20-8	≤0.13	Acute Tox. 2, H300 Acute Tox. 3, H311	[1]

SECTION 3: Composition/information on ingredients

	Index: 602-051-00-X		Aquatic Acute 1, H400 (M=100000000) Aquatic Chronic 1, H410 (M=100000000)	
Endosulfan sulfate	CAS: 1031-07-8	≤0.13	Acute Tox. 2, H300 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	[1]
beta-Endosulfan	CAS: 33213-65-9	≤0.13	Acute Tox. 3, H301 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	[1]
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.)-	CAS: 959-98-8	≤0.13	Acute Tox. 3, H301 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1]
dieldrin (ISO)	EC: 200-484-5 CAS: 60-57-1 Index: 602-049-00-9	≤0.13	Acute Tox. 3, H301 Acute Tox. 1, H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1]
DDT (ISO)	EC: 200-024-3 CAS: 50-29-3 Index: 602-045-00-7	≤0.13	Acute Tox. 3, H301 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1]
2,2-bis(p-Chlorophenyl) -1,1-dichloroethylene	EC: 200-784-6 CAS: 72-55-9	≤0.23	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1000)	[1]
TDE	EC: 200-783-0 CAS: 72-54-8	≤0.13	Acute Tox. 3, H301 Acute Tox. 4, H312 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	[1]
1,2,3,4,5,6-hexachlorcyclohexanes	EC: 206-272-9 CAS: 319-86-8 Index: 602-042-00-0	≤0.13	Acute Tox. 3, H301 Acute Tox. 4, H312 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Gamma-HCH or gamma-BHC	EC: 200-401-2 CAS: 58-89-9 Index: 602-043-00-6	≤0.13	Acute Tox. 3, H301 Acute Tox. 4, H312 Acute Tox. 4, H332 Lact., H362 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1,	[1]

SECTION 3: Composition/information on ingredients

			H410 (M=10)	
1,2,3,4,5,6-hexachlorcyclohexanes	EC: 206-271-3 CAS: 319-85-7 Index: 602-042-00-0	≤0.13	Acute Tox. 3, H301 Acute Tox. 4, H312 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
1,2,3,4,5,6-hexachlorcyclohexanes	EC: 206-270-8 CAS: 319-84-6 Index: 602-042-00-0	≤0.13	Acute Tox. 3, H301 Acute Tox. 4, H312 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
heptachlor epoxide	EC: 213-831-0 CAS: 1024-57-3 Index: 602-063-00-5	≤0.13	Acute Tox. 3, H301 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Methoxychlor	EC: 200-779-9 CAS: 72-43-5	≤0.3	Acute Tox. 4, H302 STOT SE 2, H371 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=100) **See Section 16 for the full text of the H statements declared above.**	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of 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 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 adverse health effects persist or are severe. 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. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

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 adverse health effects persist or are severe. 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.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

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

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

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

Specific treatments : No specific treatment.

SECTION 5: Firefighting 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

Hazards from the substance or mixture : Highly flammable liquid and vapour. 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 combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

5.3 Advice for firefighters

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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

6.2 Environmental precautions : Avoid dispersal of spilt 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 material 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.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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.

7.2 Conditions for safe storage, including any incompatibilities

Storage : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

SECTION 7: Handling and storage

Category	Notification and MAPP threshold	Safety report threshold
P5c E1	5000 tonne 100 tonne	50000 tonne 200 tonne

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

Product/ingredient name	Exposure limit values
tert-butyl methyl ether	**EH40/2005 WELs (United Kingdom (UK), 1/2020).** STEL: 367 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 183.5 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.

Biological exposure indices

Product/ingredient name	Exposure indices
Gamma-HCH or gamma-BHC	**EH40/2005 BMGVs (United Kingdom (UK), 8/2018)** BGV: 70 nmol/l, lindane [in plasma]. Sampling time: random. BGV: 10 µg/l, lindane [in whole blood]. Sampling time: random. BGV: 35 nmol/l, lindane [in whole blood]. Sampling time: random.

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
tert-butyl methyl ether	DNEL	Long term Oral	7.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	53.6 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	178.5 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	214 mg/m³	General population	Local
	DNEL	Short term Inhalation	357 mg/m³	Workers	Local
	DNEL	Long term Dermal	3570 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	5100 mg/kg bw/day	Workers	Systemic

PNECs

No PNECs available

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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

SECTION 8: Exposure controls/personal protection

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.

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.

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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Not available.

Odour : Not available.

Odour threshold : Not available.

Melting point/freezing point : -109°C

Initial boiling point and boiling range : 55°C

Flammability : Not applicable.

Upper/lower flammability or explosive limits : Not available.

Flash point : Closed cup: -10°C [Based on solvent.]

Auto-ignition temperature :

Ingredient name	°C	Method
tert-butyl methyl ether	375	-

Decomposition temperature : Not available.

SECTION 9: Physical and chemical properties

pH : Not available.

Viscosity : Not available.

Solubility(ies) :

Media	Result
water	Partially soluble

Miscible with water : No.

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

Vapour pressure :

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

Evaporation rate : Not available.

Relative density : Not available.

Vapour density : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

No additional information.

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 pressurise, 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:
oxidising 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

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
tert-butyl methyl ether	LC50 Inhalation Vapour	Rat	41000 mg/m³	4 hours
	LC50 Inhalation Vapour	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 (ISO)	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	-
1,2,3,4,5,6-hexachlorcyclohexanes	LD50 Oral	Rat	1 g/kg	-
Gamma-HCH or gamma-BHC	LD50 Oral	Rat	76 mg/kg	-
1,2,3,4,5,6-hexachlorcyclohexanes	LD50 Oral	Rat	6 g/kg	-
1,2,3,4,5,6-hexachlorcyclohexanes	LD50 Oral	Rat	177 mg/kg	-
heptachlor epoxide	LD50 Oral	Rat	15 mg/kg	-
Methoxychlor	LD50 Dermal	Rabbit	>6 g/kg	-
	LD50 Dermal	Rat	>6 g/kg	-
	LD50 Oral	Rat	1855 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Organochlorine Pesticides Mixture, Part Number 8500-5926	2034.8	3570.8	N/A	2271.0	N/A
tert-butyl methyl ether	4000	N/A	N/A	41	N/A
aldrin (ISO)	100	300	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 (ISO)	87	N/A	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
1,2,3,4,5,6-hexachlorcyclohexanes	100	1100	N/A	N/A	N/A
Gamma-HCH or gamma-BHC	76	1100	N/A	N/A	1.5
1,2,3,4,5,6-hexachlorcyclohexanes	100	1100	N/A	N/A	N/A
1,2,3,4,5,6-hexachlorcyclohexanes	177	1100	N/A	N/A	N/A
heptachlor epoxide	100	N/A	N/A	N/A	N/A
Methoxychlor	1855	N/A	N/A	N/A	N/A

Irritation/Corrosion

SECTION 11: Toxicological information

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : 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)

Product/ingredient name	Category	Route of exposure	Target organs
Methoxychlor	Category 2	-	-

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
aldrin (ISO)	Category 1	-	-
heptachlor (ISO)	Category 2	-	-
dieldrin (ISO)	Category 1	-	-
DDT (ISO)	Category 1	-	-
Gamma-HCH or gamma-BHC	Category 2	-	-
heptachlor epoxide	Category 2	-	-

Aspiration hazard

Not available.

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

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : Causes skin irritation.

Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

Ingestion : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

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

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

SECTION 11: Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

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 - Fathead minnow - *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 - Crab - *Paratelphusa jacquemontii* - Intermolt	48 hours
	Acute LC50 1000 µg/l Fresh water	Daphnia - Water flea - *Daphnia magna*	48 hours
	Acute LC50 1.2 µg/l Fresh water	Fish - Walking catfish - *Clarias batrachus*	96 hours
heptachlor (ISO)	Acute EC50 42 µg/l Fresh water	Daphnia - Water flea - *Daphnia pulex*	48 hours
	Acute LC50 28 µg/l Marine water	Crustaceans - Bay shrimp, Sand shrimp - *Crangon septemspinosa*	48 hours
	Acute LC50 0.8 µg/l Marine water	Fish - Bluehead wrasse - *Thalassoma bifasciatum*	96 hours
endrin (ISO)	Acute LC50 0.0000011 µg/l Fresh water	Crustaceans - Aquatic sowbug - *Asellus aquaticus* - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 0.000022 µg/l Fresh water	Daphnia - Water flea - *Daphnia pulex*	48 hours
	Acute LC50 0.048 µg/l Fresh water	Fish - Chinook salmon - *Oncorhynchus tshawytscha*	96 hours
	Chronic NOEC 0.12 µg/l Marine water	Fish - Sheepshead minnow - *Cyprinodon variegatus* - Embryo	4 weeks
Endosulfan sulfate	Acute LC50 0.1 to 1 ppm Marine water	Crustaceans - Brine shrimp - *Artemia salina* - Adult	48 hours
	Acute LC50 756 µg/l Fresh water	Daphnia - Water flea - *Daphnia carinata* - Neonate	48 hours
	Acute LC50 1.4 µg/l Fresh water	Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 91.7 µg/l Fresh water	Daphnia - Water flea - *Daphnia magna* - Neonate	21 days
beta-Endosulfan	Acute LC50 0.1 to 1 ppm Marine water	Crustaceans - Brine shrimp - *Artemia salina* - Adult	48 hours
	Acute LC50 205 µg/l Fresh water	Daphnia - Water flea - *Daphnia carinata* - Neonate	48 hours
	Acute LC50 3.3 µg/l Fresh water	Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

SECTION 12: Ecological information

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 - Brine shrimp - *Artemia salina* - Adult	48 hours
	Acute LC50 249 µg/l Fresh water	Daphnia - Water flea - *Daphnia carinata* - Neonate	48 hours
	Acute LC50 0.16 µg/l Fresh water	Fish - Snake-head catfish - *Channa punctata*	96 hours
dieldrin (ISO)	Acute EC50 0.9 µg/l Fresh water	Crustaceans - Ostracod - *Chlamydotheca arcuata* - Adult	48 hours
	Acute EC50 79.5 µg/l Fresh water	Daphnia - Water flea - *Daphnia magna* - Neonate	48 hours
	Acute LC50 0.62 µg/l Fresh water	Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 0.032 mg/l Fresh water	Daphnia - Water flea - *Daphnia magna*	21 days
	Chronic NOEC 0.0001 mg/l Marine water	Fish - Plaice, sand dab - *Pleuronectes platessa* - Egg	8 weeks
DDT (ISO)	Acute EC50 0.0006 mg/l Marine water	Crustaceans - Penaeidean shrimp - *Penaeus sp.* - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute EC50 0.4 µg/l Fresh water	Daphnia - Water flea - *Daphnia pulex*	48 hours
	Acute LC50 0.26 µg/l Marine water	Fish - Dwarf perch - *Micrometrus minimus*	96 hours
	Chronic NOEC 100 ppb Marine water	Algae - Green algae - *Dunaliella tertiolecta* - Exponential growth phase	4 days
	Chronic NOEC 1 µg/l Fresh water	Daphnia - Water flea - *Daphnia magna* - Neonate	21 days
2,2-bis(p-Chlorophenyl) -1,1-dichloroethylene	Acute EC50 28 µg/l Marine water	Crustaceans - Brown shrimp - *Penaeus aztecus* - Adult	48 hours
	Chronic NOEC 0.1 µg/l Fresh water	Fish - Chinese Rare Minnow - *Gobiocypris rarus* - Sexually mature	28 days
TDE	Acute LC50 1.8 µg/l Fresh water	Crustaceans - Scud - *Gammarus lacustris*	48 hours
	Acute LC50 2.5 µg/l Marine water	Fish - Striped bass - *Morone saxatilis* - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
1,2,3,4,5,6-hexachlorcyclohexanes	Acute LC50 700 µg/l Marine water	Fish - Pearlspot - *Etroplus maculatus*	96 hours
Gamma-HCH or gamma-BHC	Acute EC50 1620 µg/l Fresh water	Algae - Green algae - *Chlamydomonas reinhardtii*	4 days
	Acute EC50 0.00022 ppm Marine water	Crustaceans - Brown shrimp - *Penaeus aztecus*	48 hours
	Acute EC50 100 µg/l Fresh water	Daphnia - Water flea - *Daphnia carinata* - Adult	48 hours
	Acute LC50 1.1 µg/l Fresh water	Fish - Walking catfish - *Clarias batrachus*	96 hours
	Chronic EC10 0.5 mg/l Fresh water	Algae - Green algae - *Desmodesmus subspicatus*	96 hours
	Chronic EC10 40 µg/l Fresh water	Daphnia - Water flea - *Daphnia magna* - Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 0.000016 mg/l Fresh water	Fish - Zebra danio - *Danio rerio*	28 days
1,2,3,4,5,6-hexachlorcyclohexanes	Acute LC50 1100 µg/l Fresh water	Fish - Neon - *Paracheirodon axelrodi*	96 hours
	Chronic NOEC 32 µg/l Fresh water	Fish - Guppy - *Poecilia reticulata*	4 weeks

SECTION 12: Ecological information

		- Juvenile (Fledgling, Hatchling, Weanling)	
1,2,3,4,5,6-hexachlorcyclohexanes	Acute EC50 800 µg/l Fresh water	Daphnia - Water flea - *Daphnia magna*	48 hours
	Acute EC50 320 µg/l Fresh water	Fish - Medaka, high-eyes - *Oryzias latipes*	96 hours
	Chronic LC10 500 µg/l Marine water	Fish - Guppy - *Poecilia reticulata*	35 days
heptachlor epoxide	Acute LC50 240 µg/l Fresh water	Daphnia - Water flea - *Daphnia magna*	48 hours
Methoxychlor	Acute EC50 0.23 µg/l Marine water	Crustaceans - Dungeness or edible crab - *Cancer magister* - Zoea	48 hours
	Acute LC50 16 µg/l Fresh water	Daphnia - Water flea - *Daphnia magna*	48 hours
	Acute LC50 2.54 µg/l Marine water	Fish - Chinook salmon - *Oncorhynchus tshawytscha*	96 hours
	Chronic NOEC 1 µg/l Fresh water	Daphnia - Water flea - *Daphnia magna* - Neonate	21 days
	Chronic NOEC 0.2 to 2.3 µg/l Fresh water	Fish - Medaka, high-eyes - *Oryzias latipes* - Larvae	28 days

Conclusion/Summary : Not available.

12.2 Persistence and degradability

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

Conclusion/Summary : Not available.

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 (ISO)	6.91	19498.45	High
2,2-bis(p-Chlorophenyl) -1,1-dichloroethylene	6.51	12022.64	High
TDE	6.02	-	High
1,2,3,4,5,6-hexachlorcyclohexanes	4.14	1778.28	High
Gamma-HCH or gamma-BHC	3.72	1148.15	High
1,2,3,4,5,6-hexachlorcyclohexanes	3.78	1445.44	High
1,2,3,4,5,6-hexachlorcyclohexanes	3.8	1445.44	High

SECTION 12: Ecological information

heptachlor epoxide	4.98	-	High
Methoxychlor	5.08	316.23	Low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN2398	UN2398	UN2398
14.2 UN proper shipping name	METHYL tert-BUTYL ETHER solution	METHYL tert-BUTYL ETHER solution	Methyl tert-butyl ether solution
14.3 Transport hazard class(es)	3 	3 	3 
14.4 Packing group	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

Remarks: De minimis quantities

SECTION 14: Transport information

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Hazard identification number 33
Limited quantity 1 L
Tunnel code (D/E)

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Emergency schedules F-E, S-D

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.
Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341.

14.6 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.

14.7 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

UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Part	Ingredient name	Status
Parts 4 & 5	aldrin	Part 4
	heptachlor	Part 4
	endrin	Part 4
	dieldrin	Part 4
	DDT	Part 4
	hexachlorocyclohexanes including lindane	Part 4
	hexachlorocyclohexanes including lindane	Part 4
	hexachlorocyclohexanes including lindane	Part 4

Persistent Organic Pollutants

Annex	Ingredient name	Status
Annex I - Part A	Aldrin	Listed
	Heptachlor	Listed
	Endrin	Listed
	endosulfan	Listed
	endosulfan	Listed
	Dieldrin	Listed
	DDT	Listed
	Hexachlorocyclohexanes, including lindane	Listed
	Hexachlorocyclohexanes, including lindane	Listed
	Hexachlorocyclohexanes, including lindane	Listed
	Hexachlorocyclohexanes, including lindane	Listed

SECTION 15: Regulatory information

Annex IV	Aldrin	Listed
	Heptachlor	Listed
	Endrin	Listed
	endosulfan	Listed
	endosulfan	Listed
	Dieldrin	Listed
	DDT	Listed
	Hexachlorocyclohexanes, including lindane	Listed
	Hexachlorocyclohexanes, including lindane	Listed
	Hexachlorocyclohexanes, including lindane	Listed
	Hexachlorocyclohexanes, including lindane	Listed
Annex V	Aldrin	Listed
	Heptachlor	Listed
	Endrin	Listed
	endosulfan	Listed
	endosulfan	Listed
	Dieldrin	Listed
	DDT	Listed
	Hexachlorocyclohexanes, including lindane	Listed
	Hexachlorocyclohexanes, including lindane	Listed
	Hexachlorocyclohexanes, including lindane	Listed
	Hexachlorocyclohexanes, including lindane	Listed

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product / Ingredient name	Identifiers	Status
Organochlorine Pesticides Mixture, Part Number 8500-5926		3

Label : Not applicable.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c E1

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

SECTION 15: Regulatory information

List name	Ingredient name	Status
Annex A - Elimination - Production	aldrin	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
Annex A - Elimination - Use	aldrin	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
Annex B - Restriction - Production	DDT	Listed
Annex B - Restriction - Use	DDT	Listed

Rotterdam Convention on Prior Informed Consent (PIC)

List name	Ingredient name	Status
Pesticide	Aldrin; Rasayaldrin; HHDN; 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene	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-lH-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

List name	Ingredient name	Status
POPs - Annex 1 - Production	aldrin	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
POPs - Annex 1 - Use	aldrin	Listed
	heptachlor	Listed

SECTION 15: Regulatory information

	endrin	Listed
	dieldrin	Listed
	DDT	Listed
	hexachlorocyclohexanes, including lindane	Listed
	hexachlorocyclohexanes, including lindane	Listed
	hexachlorocyclohexanes, including lindane	Listed
	hexachlorocyclohexanes, including lindane	Listed

Inventory list

United States : Not determined.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H371	May cause damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of classifications

Acute Tox. 1	ACUTE TOXICITY - Category 1
Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Lact.	REPRODUCTIVE TOXICITY - Effects on or via lactation
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2

SECTION 16: Other information

STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 2	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2

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