

1 Identification

- **Product identifier**
- **Product Name:** Organochlorine Pesticides Mix
- **Part Number:** 625-PH
- **Application of the substance / the mixture** Certified Reference Material
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SPEX CertiPrep, LLC.
203 Norcross Ave, Metuchen,
NJ 08840 USA
- **Information department:** product safety department
- **Emergency telephone number:**
Emergency Phone Number (24 hours)
CHEMTREC (800-424-9300)
Outside US: 703-527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 1 H310 Fatal in contact with skin.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1A H350 May cause cancer.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Lact. H362 May cause harm to breast-fed children.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS06



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

benzene

dieldrin (ISO)

Endrin ketone

 γ -HCH or γ -BHC

- **Hazard statements**

H225 Highly flammable liquid and vapor.

Product Name: Organochlorine Pesticides Mix

(Contd. of page 1)

H301 Toxic if swallowed.
 H310 Fatal in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H340 May cause genetic defects.
 H350 May cause cancer.
 H362 May cause harm to breast-fed children.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H304 May be fatal if swallowed and enters airways.

Precautionary statements

If medical advice is needed, have product container or label at hand.
 Keep out of reach of children.
 Read label before use.
 Avoid contact during pregnancy/while nursing.
 If swallowed: Immediately call a poison center/doctor.
 Specific treatment (see on this label).
 Rinse mouth.
 Do NOT induce vomiting.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Take off immediately all contaminated clothing and wash it before reuse.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:**NFPA ratings (scale 0 - 4)****HMIS-ratings (scale 0 - 4)****Other hazards****Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients**Chemical characterization: Mixtures**

• **Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

71-43-2	benzene	96.4%
319-84-6	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	0.2%
319-85-7	(1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	0.2%
319-86-8	delta-BHC	0.2%
60-57-1	dieldrin (ISO)	0.2%
58-89-9	gamma-HCH or gamma-BHC	0.2%
76-44-8	heptachlor (ISO)	0.2%
1024-57-3	heptachlor epoxide	0.2%
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	0.2%
309-00-2	aldrin (ISO)	0.2%

Chemical identification of the substance/preparation

959-98-8	Endosulfan I	0.2%
33213-65-9	Endosulfan II	0.2%
1031-07-8	Endosulfan sulfate	0.2%
72-20-8	endrin (ISO)	0.2%
7421-93-4	Endrin aldehyde	0.2%
53494-70-5	Endrin ketone	0.2%

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/10/2019

Reviewed on 01/10/2019

Product Name: Organochlorine Pesticides Mix

(Contd. of page 2)

72-43-5	methoxychlor	0.2%
72-54-8	TDE	0.2%
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	0.2%

4 First-aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Do not induce vomiting; immediately call for medical help.

Do not give anything to eat or drink - Do not induce vomiting

- **Information for Doctor:**

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **Special hazards arising from the substance or mixture** During heating or in case of fire poisonous gases are produced.

- **Advice for firefighters**

- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

71-43-2	benzene	52 ppm
60-57-1	dieldrin (ISO)	0.3 mg/m ³
72-20-8	endrin (ISO)	1.8 mg/m ³
58-89-9	γ -HCH or γ -BHC	9.1 mg/m ³
76-44-8	heptachlor (ISO)	0.15 mg/m ³
1024-57-3	heptachlor epoxide	0.15 mg/m ³
72-43-5	methoxychlor	30 mg/m ³
72-54-8	TDE	2.4 mg/m ³
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	6.5 mg/m ³
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	3 mg/m ³
309-00-2	aldrin (ISO)	0.91 mg/m ³

- **PAC-2:**

71-43-2	benzene	800 ppm
60-57-1	dieldrin (ISO)	6.8 mg/m ³
72-20-8	endrin (ISO)	20 mg/m ³

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/10/2019

Reviewed on 01/10/2019

Product Name: Organochlorine Pesticides Mix

(Contd. of page 3)

58-89-9	γ -HCH or γ -BHC	100 mg/m ³
76-44-8	heptachlor (ISO)	14 mg/m ³
1024-57-3	heptachlor epoxide	0.5 mg/m ³
72-43-5	methoxychlor	150 mg/m ³
72-54-8	TDE	26 mg/m ³
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	72 mg/m ³
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	34 mg/m ³
309-00-2	aldrin (ISO)	10 mg/m ³
· PAC-3:		
71-43-2	benzene	4000* ppm
60-57-1	dieldrin (ISO)	450 mg/m ³
72-20-8	endrin (ISO)	2,000 mg/m ³
58-89-9	γ -HCH or γ -BHC	1,000 mg/m ³
76-44-8	heptachlor (ISO)	700 mg/m ³
1024-57-3	heptachlor epoxide	3 mg/m ³
72-43-5	methoxychlor	4,500 mg/m ³
72-54-8	TDE	160 mg/m ³
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	170 mg/m ³
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	210 mg/m ³
309-00-2	aldrin (ISO)	100 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

71-43-2 benzene

PEL	Short-term value: 15* mg/m ³ , 5* ppm Long-term value: 3* mg/m ³ , 1* ppm *table Z-2 for exclusions in 29CFR1910.1028(d)
REL	Short-term value: 1 ppm Long-term value: 0.1 ppm See Pocket Guide App. A
TLV	Short-term value: 8 mg/m ³ , 2.5 ppm Long-term value: 1.6 mg/m ³ , 0.5 ppm Skin; BEI

(Contd. on page 5)

Product Name: Organochlorine Pesticides Mix

(Contd. of page 4)

1024-57-3 heptachlor epoxideTLV Long-term value: 0.05 mg/m³
Skin**Ingredients with biological limit values:****71-43-2 benzene**

BEI 25 µg/g creatinine
Medium: urine
Time: end of shift
Parameter: S-Phenylmercapturic acid (background)

500 µg/g creatinine
Medium: urine
Time: end of shift
Parameter: t,t-Muconic acid (background)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form: Liquid
Color: According to product specification
Odor: Characteristic
Odour Threshold: Not applicable.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 80 °C (176 °F)

· **Flash point:** < 0 °C (<32 °F)

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/10/2019

Reviewed on 01/10/2019

Product Name: Organochlorine Pesticides Mix

(Contd. of page 5)

· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	555 °C (1,031 °F)
· Decomposition temperature:	Not applicable.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	8 Vol %
· Vapor pressure at 20 °C (68 °F):	100 hPa (75 mm Hg)
· Density at 20 °C (68 °F)	0.88 g/cm ³ (7.3436 lbs/gal)
· Relative density	Not applicable.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not applicable.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	96.6 %
VOC content:	96.60 %
· Solids content:	1.6 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
71-43-2 benzene		
Oral	LD50	4,894 mg/kg (rat)
Dermal	LD50	48 mg/kg (mouse)
Inhalative	LC50/4 h	9,980 mg/l (mouse)
60-57-1 dieldrin (ISO)		
Oral	LD50	38 mg/kg (rat)
Dermal	LD50	10 mg/kg (rat)
72-20-8 endrin (ISO)		
Oral	LD50	7 mg/kg (rat)
Dermal	LD50	60 mg/kg (rat)
58-89-9 γ-HCH or γ-BHC		
Oral	LD50	88 mg/kg (rat)
Dermal	LD50	900 mg/kg (rat)
76-44-8 heptachlor (ISO)		
Oral	LD50	100 mg/kg (rat)

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/10/2019

Reviewed on 01/10/2019

Product Name: Organochlorine Pesticides Mix

(Contd. of page 6)

Dermal	LD50	159 mg/kg (rat)
1024-57-3 heptachlor epoxide		
Oral	LD50	34 mg/kg (rat)
50-29-3 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane		
Oral	LD50	113 mg/kg (rat)
Dermal	LD50	2,510 mg/kg (rat)
309-00-2 aldrin (ISO)		
Oral	LD50	46 mg/kg (rat)
Dermal	LD50	98 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Irritant

Very toxic

Danger through skin absorption.

The product can cause inheritable damage.

- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
71-43-2	benzene	1
319-84-6	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	2B
319-85-7	(1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	2B
60-57-1	dieldrin (ISO)	3
72-20-8	endrin (ISO)	3
58-89-9	gamma-HCH or gamma-BHC	1
76-44-8	heptachlor (ISO)	2B
1024-57-3	heptachlor epoxide	2B
72-43-5	methoxychlor	3
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	2A
309-00-2	aldrin (ISO)	3

- **NTP (National Toxicology Program)**

71-43-2	benzene	K
319-84-6	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	R
319-85-7	(1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	R
319-86-8	delta-BHC	R
58-89-9	gamma-HCH or gamma-BHC	R
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	R

- **OSHA-Ca (Occupational Safety & Health Administration)**

71-43-2	benzene
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12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/10/2019

Reviewed on 01/10/2019

Product Name: Organochlorine Pesticides Mix






(Contd. of page 7)

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number · DOT, ADR, IMDG, IATA	UN1114
· UN proper shipping name · DOT · ADR · IMDG · IATA	Benzene 1114 Benzene, ENVIRONMENTALLY HAZARDOUS BENZENE, MARINE POLLUTANT BENZENE
· Transport hazard class(es) · DOT	
 	
· Class · Label	3 Flammable liquids 3
· ADR, IMDG	
 	
· Class · Label	3 Flammable liquids 3
· IATA	
	
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, ADR, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	Yes (DOT) Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Flammable liquids 33 F-E,S-D
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · DOT · Remarks:	Special marking with the symbol (fish and tree).

(Contd. on page 9)

US

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/10/2019

Reviewed on 01/10/2019

Product Name: Organochlorine Pesticides Mix

(Contd. of page 8)

· ADR · Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1114 BENZENE, 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· **Section 313 (Specific toxic chemical listings):**

71-43-2	benzene
319-84-6	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane
58-89-9	gamma-HCH or gamma-BHC
76-44-8	heptachlor (ISO)
72-43-5	methoxychlor
309-00-2	aldrin (ISO)

· **TSCA (Toxic Substances Control Act):**

71-43-2	benzene
319-84-6	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane
319-85-7	(1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane
319-86-8	delta-BHC
58-89-9	gamma-HCH or gamma-BHC
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane

· **TSCA new (21st Century Act) (Substances not listed)**

319-84-6	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane
319-85-7	(1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane
319-86-8	delta-BHC
60-57-1	dieldrin (ISO)
58-89-9	gamma-HCH or gamma-BHC
76-44-8	heptachlor (ISO)
1024-57-3	heptachlor epoxide
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane
309-00-2	aldrin (ISO)

· **Proposition 65**

· **Chemicals known to cause cancer:**

71-43-2	benzene
319-84-6	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane
319-85-7	(1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane
319-86-8	delta-BHC
60-57-1	dieldrin (ISO)
58-89-9	gamma-HCH or gamma-BHC
76-44-8	heptachlor (ISO)
1024-57-3	heptachlor epoxide
72-54-8	TDE
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane
309-00-2	aldrin (ISO)

· **Chemicals known to cause reproductive toxicity for females:**

50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane
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(Contd. on page 10)

Product Name: Organochlorine Pesticides Mix

(Contd. of page 9)

· Chemicals known to cause reproductive toxicity for males:

71-43-2	benzene
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane

· Chemicals known to cause developmental toxicity:

71-43-2	benzene
72-20-8	endrin (ISO)
76-44-8	heptachlor (ISO)
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane

· Carcinogenic categories**· EPA (Environmental Protection Agency)**

71-43-2	benzene	A, K/L
319-84-6	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	B2
319-85-7	(1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	C
319-86-8	delta-BHC	D
60-57-1	dieldrin (ISO)	B2
72-20-8	endrin (ISO)	D
76-44-8	heptachlor (ISO)	B2
1024-57-3	heptachlor epoxide	B2
72-43-5	methoxychlor	D
72-54-8	TDE	B2
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	B2
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	B2
309-00-2	aldrin (ISO)	B2

· TLV (Threshold Limit Value established by ACGIH)

71-43-2	benzene	A1
60-57-1	dieldrin (ISO)	(A4)
72-20-8	endrin (ISO)	A4
58-89-9	γ-HCH or γ-BHC	A3
76-44-8	heptachlor (ISO)	A3
1024-57-3	heptachlor epoxide	A3
72-43-5	methoxychlor	A4
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	A3
309-00-2	aldrin (ISO)	A3

· NIOSH-Ca (National Institute for Occupational Safety and Health)

71-43-2	benzene
60-57-1	dieldrin (ISO)
76-44-8	heptachlor (ISO)
1024-57-3	heptachlor epoxide
72-43-5	methoxychlor
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane
309-00-2	aldrin (ISO)

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).**· Hazard pictograms****· Signal word** Danger**· Hazard-determining components of labeling:**

benzene
dieldrin (ISO)
Endrin ketone
γ-HCH or γ-BHC

(Contd. on page 11)

Product Name: Organochlorine Pesticides Mix

(Contd. of page 10)

Hazard statements

- H225 Highly flammable liquid and vapor.
- H301 Toxic if swallowed.
- H310 Fatal in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H362 May cause harm to breast-fed children.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H304 May be fatal if swallowed and enters airways.

Precautionary statements

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Avoid contact during pregnancy/while nursing.
- If swallowed: Immediately call a poison center/doctor.
- Specific treatment (see on this label).
- Rinse mouth.
- Do NOT induce vomiting.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Take off immediately all contaminated clothing and wash it before reuse.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

- Additional classification according to Decree on Hazardous Materials:** Carcinogenic hazardous material group III (dangerous).

Information about limitation of use:

- Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS:** product safety department

Contact:

SPEX CertiPrep, LLC.
1-732-549-7144

- Date of preparation / last revision** 01/10/2019 / -

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 BEI: Biological Exposure Limit
 Flam. Liq. 2: Flammable liquids – Category 2
 Acute Tox. 3: Acute toxicity – Category 3
 Acute Tox. 1: Acute toxicity – Category 1
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
 Muta. 1B: Germ cell mutagenicity – Category 1B
 Carc. 1A: Carcinogenicity – Category 1A
 Lact.: Reproductive toxicity – effects on or via lactation
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
 Asp. Tox. 1: Aspiration hazard – Category 1