

1 Identification

- **Product identifier**
- **Product Name:** Organochlorine Pesticides Mix
- **Part Name:** 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
732-549-7144
USMet-CRMSales@antylia.com
- **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

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Toxicity - Oral 3

H301 Toxic if swallowed.

Acute Toxicity - Dermal 1

H310 Fatal in contact with skin.



GHS08 Health hazard

Germ Cell Mutagenicity 1B

H340 May cause genetic defects.

Carcinogenicity 1A

H350 May cause cancer.

Specific Target Organ Toxicity - Repeated Exposure 1

H372 Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure.

Aspiration Hazard 1

H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

- **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
Endosulfan sulfate
dieldrin (ISO)
Endrin ketone

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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.
- H372 Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure.
- H304 May be fatal if swallowed and enters airways.

Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P321 Specific treatment (see on this label).
- P330 Rinse mouth.
- P331 Do NOT induce vomiting.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P501 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%
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	0.2%
58-89-9	γ-HCH or γ-BHC	0.2%
60-57-1	dieldrin (ISO)	0.2%
72-20-8	endrin (ISO)	0.2%
72-54-8	TDE	0.2%
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	0.2%
76-44-8	heptachlor (ISO)	0.2%
309-00-2	aldrin (ISO)	0.2%
319-84-6	(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	0.2%
319-85-7	β-HCH	0.2%
319-86-8	delta-BHC	0.2%
959-98-8	Endosulfan I	0.2%
1024-57-3	heptachlor epoxide	0.2%
1031-07-8	Endosulfan sulfate	0.2%
7421-93-4	Endrin aldehyde	0.2%

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33213-65-9	Endosulfan II	0.2%
53494-70-5	Endrin ketone	0.2%
Chemical identification of the substance/preparation		
72-43-5	methoxychlor	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
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	3 mg/m ³
58-89-9	γ-HCH or γ-BHC	9.1 mg/m ³
60-57-1	dieldrin (ISO)	0.3 mg/m ³
72-20-8	endrin (ISO)	1.8 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
76-44-8	heptachlor (ISO)	0.15 mg/m ³
309-00-2	aldrin (ISO)	0.91 mg/m ³
1024-57-3	heptachlor epoxide	0.15 mg/m ³

PAC-2:

71-43-2	benzene	800 ppm
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	34 mg/m ³
58-89-9	γ-HCH or γ-BHC	100 mg/m ³
60-57-1	dieldrin (ISO)	6.8 mg/m ³

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72-20-8	endrin (ISO)	20 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
76-44-8	heptachlor (ISO)	14 mg/m ³
309-00-2	aldrin (ISO)	10 mg/m ³
1024-57-3	heptachlor epoxide	0.5 mg/m ³
· PAC-3:		
71-43-2	benzene	4000* ppm
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	210 mg/m ³
58-89-9	γ-HCH or γ-BHC	1,000 mg/m ³
60-57-1	dieldrin (ISO)	450 mg/m ³
72-20-8	endrin (ISO)	2,000 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
76-44-8	heptachlor (ISO)	700 mg/m ³
309-00-2	aldrin (ISO)	100 mg/m ³
1024-57-3	heptachlor epoxide	3 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: (2.5) NIC-0.1 ppm Long-term value: (0.5) NIC-0.02 ppm Skin; BEI, A1
1024-57-3 heptachlor epoxide	
TLV	Long-term value: 0.05 mg/m ³ Skin, A3

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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)
Flammability (solid, gaseous):	Highly flammable.
Ignition temperature:	555 °C (1,031 °F)
Decomposition temperature:	Not applicable.
Auto igniting:	Product is not selfigniting.

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Product Name: Organochlorine Pesticides Mix

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· 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)

- **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
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	2A
58-89-9	γ-HCH or γ-BHC	1
60-57-1	dieldrin (ISO)	2A
72-20-8	endrin (ISO)	3
72-43-5	methoxychlor	3
76-44-8	heptachlor (ISO)	2B

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309-00-2	aldrin (ISO)	2A
319-84-6	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	2B
319-85-7	beta-HCH	2B
1024-57-3	heptachlor epoxide	2B
· NTP (National Toxicology Program)		
71-43-2	benzene	K
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	R
58-89-9	gamma-HCH or gamma-BHC	R
319-84-6	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	R
319-85-7	beta-HCH	R
319-86-8	delta-BHC	R
· OSHA-Ca (Occupational Safety & Health Administration)		
71-43-2	benzene	


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.
- **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
· Transport hazard class(es) · DOT	
	
· Class · Label	3 Flammable liquids 3

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· ADR	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, ADR, IMDG, IATA	II
· Environmental hazards:	
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-D
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
· Transport/Additional information:	
· 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)	1L
· Excepted quantities (EQ)	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	
58-89-9	γ-HCH or γ-BHC	
72-43-5	methoxychlor	
76-44-8	heptachlor (ISO)	
309-00-2	aldrin (ISO)	
319-84-6	(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	
· TSCA (Toxic Substances Control Act):		
71-43-2	benzene	ACTIVE
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	ACTIVE
58-89-9	γ-HCH or γ-BHC	ACTIVE
319-84-6	(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	ACTIVE
319-85-7	β-HCH	ACTIVE
319-86-8	delta-BHC	ACTIVE
· Hazardous Air Pollutants		
71-43-2	benzene	
58-89-9	γ-HCH or γ-BHC	

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72-43-5	methoxychlor
76-44-8	heptachlor (ISO)

· Proposition 65

· Chemicals known to cause cancer:

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

· 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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· Chemicals known to cause reproductive toxicity for males:

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

· Chemicals known to cause developmental toxicity:

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

· Carcinogenic categories

· EPA (Environmental Protection Agency)

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

· TLV (Threshold Limit Value)

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

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

71-43-2	benzene
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane

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60-57-1	dieldrin (ISO)
72-43-5	methoxychlor
76-44-8	heptachlor (ISO)
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
Endosulfan sulfate
dieldrin (ISO)
Endrin ketone

· **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.
H372 Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
P331 Do NOT induce vomiting.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 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** 02/27/2023

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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
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)

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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
Flammable Liquids 2: Flammable liquids – Category 2
Acute Toxicity - Oral 3: Acute toxicity – Category 3
Acute Toxicity - Dermal 1: Acute toxicity – Category 1
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B
Carcinogenicity 1A: Carcinogenicity – Category 1A
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1
Aspiration Hazard 1: Aspiration hazard – Category 1
