

1 Identification

- **Product identifier**
- **Product Name:** EPA Method 8081 Pesticide Standard
- **Part Name:** 22-BIG-PEST-200
- **Application of the substance / the mixture** For Laboratory Use Only
- **Uses advised against** Not for Human or Animal Use
- **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.



GHS08 Health hazard

Toxic to Reproduction 2

H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 2

H373 May cause damage to organs 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.

Specific Target Organ Toxicity - Single Exposure 3

H336 May cause drowsiness or dizziness.

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



GHS02



GHS07



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
toluene
n-hexane

- **Hazard statements**
H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H361 Suspected of damaging fertility or the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs 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.

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- 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).
- P331 Do NOT induce vomiting.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a poison center/doctor if you feel unwell.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- 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:

108-88-3	toluene	49.78%
110-54-3	n-hexane	49.78%

· Chemical identification of the substance/preparation

50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	0.02%
58-89-9	γ-HCH or γ-BHC	0.02%
60-57-1	dieldrin (ISO)	0.02%
72-20-8	endrin (ISO)	0.02%
72-43-5	methoxychlor	0.02%
72-54-8	TDE	0.02%
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	0.02%
76-44-8	heptachlor (ISO)	0.02%
309-00-2	aldrin (ISO)	0.02%
319-84-6	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	0.02%
319-85-7	β-HCH	0.02%
319-86-8	delta-BHC	0.02%
877-09-8	2,4,5,6-Tetrachloro-m-xylene	0.02%
959-98-8	Endosulfan I	0.02%
1024-57-3	heptachlor epoxide	0.02%
1031-07-8	Endosulfan sulfate	0.02%
2051-24-3	Decachlorobiphenyl	0.02%
5103-71-9	alpha-Chlordane	0.02%
5103-74-2	gamma-Chlordane	0.02%
7421-93-4	Endrin aldehyde	0.02%
33213-65-9	Endosulfan II	0.02%
53494-70-5	Endrin ketone	0.02%

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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.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** 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 section 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:**

108-88-3	toluene	67 ppm
110-54-3	n-hexane	260 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:**

108-88-3	toluene	560 ppm
110-54-3	n-hexane	2900* 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
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

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309-00-2	aldrin (ISO)	10 mg/m ³
1024-57-3	heptachlor epoxide	0.5 mg/m ³
· PAC-3:		
108-88-3	toluene	3700* ppm
110-54-3	n-hexane	8600** 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 section 7.
- **Control parameters**

· Components with limit values that require monitoring at the workplace:

108-88-3 toluene	
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 20 ppm BEI, OTO, A4
110-54-3 n-hexane	
PEL	Long-term value: 1800 mg/m ³ , 500 ppm
REL	Long-term value: 180 mg/m ³ , 50 ppm
TLV	Long-term value: 50 ppm Skin; BEI

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Ingredients with biological limit values:	
108-88-3 toluene	
BEI	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)
110-54-3 n-hexane	
BEI	0.5 mg/L Medium: urine Time: end of shift Parameter: 2,5-Hexanedione without hydrolysis

· **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.

· **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.

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Boiling point/Boiling range:	69 °C (156.2 °F)
Flash point:	< 0 °C (< 32 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	240 °C (464 °F)
Decomposition temperature:	Not applicable.
Ignition temperature:	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:	7.4 Vol %
Vapor pressure at 20 °C (68 °F):	160 hPa (120 mm Hg)
Vapor pressure at 50 °C (122 °F):	540 hPa (405 mm Hg)
Density	Not applicable.
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:	99.6 %
VOC content:	99.58 %
Solids content:	0.2 %
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:		
108-88-3 toluene		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)

- Primary irritant effect:**
- on the skin:** Irritant to skin and mucous membranes.
- on the eye:** No irritating effect.
- Sensitization:** No sensitizing effects known.
- Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
Product is suspected to cause damage to fertility.
Product is suspected to cause birth defects.

- Carcinogenic categories**

IARC (International Agency for Research on Cancer)	
108-88-3 toluene	3

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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
309-00-2	aldrin (ISO)	2A
319-84-6	(1 α ,2 α ,3 β ,4 α ,5 β ,6 β)-1,2,3,4,5,6-hexachlorocyclohexane	2B
319-85-7	β -HCH	2B
1024-57-3	heptachlor epoxide	2B

· NTP (National Toxicology Program)

50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	R
58-89-9	γ -HCH or γ -BHC	R
319-84-6	(1 α ,2 α ,3 β ,4 α ,5 β ,6 β)-1,2,3,4,5,6-hexachlorocyclohexane	R
319-85-7	β -HCH	R
319-86-8	delta-BHC	R

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.


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 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even 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	UN1993
· UN proper shipping name · DOT · ADR	Flammable liquids, n.o.s. (Hexanes, Toluene) 1993 FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE), ENVIRONMENTALLY HAZARDOUS
· IMDG · IATA	FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE)
· Transport hazard class(es) · DOT	
	
· Class	3 Flammable liquids

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· Label	3
· ADR, IMDG	
	
· Class	3 Flammable liquids
· Label	3
· IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, ADR, IMDG, IATA	II
· Environmental hazards:	Product contains environmentally hazardous substances: n-hexane
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	B
· 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 1993 FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE), 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- Sara

· Section 313 (Specific toxic chemical listings):		
108-88-3	toluene	
110-54-3	n-hexane	
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	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	
· TSCA (Toxic Substances Control Act):		
108-88-3	toluene	ACTIVE
110-54-3	n-hexane	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	(1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	ACTIVE
319-85-7	β-HCH	ACTIVE

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319-86-8	delta-BHC	ACTIVE
· Hazardous Air Pollutants		
108-88-3	toluene	
110-54-3	n-hexane	
58-89-9	γ-HCH or γ-BHC	
72-43-5	methoxychlor	
76-44-8	heptachlor (ISO)	
· Proposition 65		
· Chemicals known to cause cancer:		
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	
· Chemicals known to cause reproductive toxicity for males:		
110-54-3	n-hexane	
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:		
108-88-3	toluene	
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)		
108-88-3	toluene	II
110-54-3	n-hexane	II
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)		
108-88-3	toluene	A4
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

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309-00-2	aldrin (ISO)	A3
1024-57-3	heptachlor epoxide	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
50-29-3	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	
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**



GHS02

GHS07

GHS08

· **Signal word** Danger

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

toluene

n-hexane

· **Hazard statements**

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs 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.

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).

P331 Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/doctor if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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** 09/11/2023

· **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)

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

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Product Name: EPA Method 8081 Pesticide Standard

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PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flammable Liquids 2: Flammable liquids – Category 2
Skin Irritation 2: Skin corrosion/irritation – Category 2
Toxic to Reproduction 2: Reproductive toxicity – Category 2
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2
Aspiration Hazard 1: Aspiration hazard – Category 1

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