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Safety Data Sheet acc. to OSHA HCS

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1 Identification

- · Product identifier
- Product Name: <u>BTEX</u>
- · Part Name: BTEX-1
- · 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.

GHS

GHS06 Skull and crossbones

Acute Toxicity - Inhalation 3



Germ Cell Mutagenicity 1B Carcinogenicity 1A Toxic to Reproduction 2 H340 May cause genetic defects. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs.

H331 Toxic if inhaled.

· Label elements

· 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: methanol benzene toluene ethylbenzene Hazard statements H225 Highly flammable liquid and vapor. H331 Toxic if inhaled. H340 May cause genetic defects. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H370 Causes damage to the central nervous system and the visual organs. · Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P240 Ground/bond container and receiving equipment.

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P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	I fon 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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
CT 10	

- · Classification system: · NFPA ratings (scale 0 - 4)
- Health = 1Fire = 3



· HMIS-ratings (scale 0 - 4)

HEALTH *1 Health = *1FIRE 3 Fire = 3Reactivity = 0**REACTIVITY** 0

- · 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.

· Dangerou	· Dangerous components:					
67-56-1	methanol	99.4%				
71-43-2		0.1%				
100-41-4	ethylbenzene	0.1%				
108-88-3	toluene	0.1%				
· Chemical	identification of the substance/preparation					
95-47-6		0.1%				
106-42-3		0.1%				
108-38-3	m-xylene	0.1%				

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

- Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

- Supply fresh air or oxygen; call for doctor.
- 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. Then consult a doctor.
- · After swallowing: Do not give anything to eat or drink Do not induce vomitting

• 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.

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530 ppm 52 ppm

33 ppm 130 ppm 67 ppm

2,100 ppm 800 ppm 1100* ppm 920 ppm 560 ppm

7200* ppm 4000* ppm 1800* ppm

2500* ppm

3700* ppm

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· Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are p	oroduced.
· Advice for firefighters	

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

	precautions, protective equipment and emergency procedures
	piratory protective device.
	tective equipment. Keep unprotected persons away.
	iental precautions:
	h plenty of water. Iow to enter sewers/ surface or ground water.
	and material for containment and cleaning up:
	ith liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
	ontaminated material as waste according to section 13.
	lequate ventilation.
	to other sections
	n 7 for information on safe handling.
	on 8 for information on personal protection equipment.
See Sectio	m 13 for disposal information.
· Protective	Action Criteria for Chemicals
• PAC-1:	
	methanol
71-43-2	
	ethylbenzene
108-38-3	
108-88-3	toluene
· PAC-2:	
67-56-1	methanol
71-43-2	benzene
100-41-4	ethylbenzene
108-38-3	m-xylene
108-88-3	toluene
· PAC-3:	
67-56-1	methanol
71-43-2	benzene
100-41-4	ethylbenzene
108-38-3	m-xylene

7 Handling and storage

108-88-3 toluene

· 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.
- \cdot 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.

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· Cont	rol parameters
Com	ponents with limit values that require monitoring at the workplace:
67-5	6-1 methanol
PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI
	3-2 benzene
	Short-term value: 15* mg/m³, 5* ppm Long-term value: 3* mg/m³, 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
100-4	41-4 ethylbenzene
PEL	Long-term value: 435 mg/m ³ , 100 ppm
	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm
	Long-term value: 20 ppm OTO, BEI, A3
	88-3 toluene
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm
TLV	Long-term value: 20 ppm BEI, OTO, A4
	edients with biological limit values:
	5-1 methanol
	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
	3-2 benzene
BEI	25 μg/g creatinine Medium: urine Time: end of shift Parameter Parameter: S-Phenylmercapturic acid (background
	500 μg/g creatinine Medium: urine Time: end of shift Parameter: t,t-Muconic acid (background)
	41-4 ethylbenzene
	0.15 g/g creatinine
	0.15 g/g creatinine Medium: urine Time: end of shift at end of workweek
	Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)
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	(Contd. of page 4)
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)	
• 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: Boiling point/Boiling range:	Undetermined. 64.7 °C (148.5 °F)			
· Flash point:	< 23 °C (< 73.4 °F)			
· Flammability (solid, gaseous):	Highly flammable.			
· Auto igniting:	455 °C (851 °F)			
· Decomposition temperature:	Not applicable.			

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	(Contd. o	f page 5)
· 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:	5.5 Vol %	
Upper:	44 Vol %	
\cdot Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)	
· Density at 20 °C (68 °F)	0.79047 g/cm ³ (6.59647 lbs/gal)	
· Relative density	Not applicable.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/water	r): Not applicable.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	100.0 %	
VOC content:	100.00 %	
Solids content:	0.0 %	
· Other information	No further relevant information available.	

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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:

$\cdot L$	D/LC50	values	that	are	relevant	for	classificatio	n:

67-56-1 methanol Oral LD50 5,628 mg/kg (rat)

Dermal LD50 15,800 mg/kg (rabbit)

· Primary irritant effect:

• 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:

Toxic

Product is suspected to cause damage to fertility.

Product is suspected to cause birth defects.

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (In	ternational Agency for Research on Cancer)					
	benzene	1				
	o-xylene	3				
	ethylbenzene	28				
106-42-3		3				
	m-xylene	3				
108-88-3	toluene	3				
· NTP (Nat	· NTP (National Toxicology Program)					
71-43-2	benzene	K				
	(Co	ontd. on page 7)				

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· 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:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- · 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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information · UN-Number · DOT, ADR, IMDG, IATA UN1230 · UN proper shipping name $\cdot DOT$ Methanol 1230 METHANOL · ADR · IMDG, IATA METHANOL · Transport hazard class(es) · DOT · Class 3 Flammable liquids · Label 3, 6.1 $\cdot ADR$ 3 Flammable liquids · Class · Label 3+6.1 · IMDG · Class 3 Flammable liquids (Contd. on page 8)

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IATA View • Class • Label • Label • Dot, ADR, IMDG, IATA • Environmental hazards: • Not applicable. • Special precautions for user • Hazard identification number (Kemler code): • 336 • Emstrommental hazards: • Not applicable. • Special precautions for user • Hazard identification number (Kemler code): • Stowage Code • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. • Transport/Additional information: • ADR • Excepted quantities (EQ) • IMDG • Limited quantities (EQ) • Code: E2 • Maximum net quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		(Contd. of page
• Class 3 Flammable liquids • Label 3 (6.1) • Packing group 3 (6.1) • Packing group 1 • DOT, ADR, IMDG, IATA I • Environmental hazards: Not applicable. • Special precautions for user Warning: Flammable liquids • Hazard identification number (Kemler code): 336 • Stowage Cade SW2 Clear of living quarters. • Stowage Code SW2 Clear of living quarters. • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. SW2 Clear of living quarters. • Transport/Additional information: ADR • ADR Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml • IMDG IL • Limited quantities (EQ) IL • Excepted quantities (EQ) IL • Excepted quantities (EQ) Code: E2 • Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	· Label	3/6.1
Class 3 Flammable liquids Label 3 (6.1) Packing group	· IATA	
Label 3 (6.1) Packing group II DOT, ADR, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 36 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 Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml MDDG IL Code: E2 Limited quantities (LQ) IL Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		
Packing group II • DOT, ADR, IMDG, IATA II • Environmental hazards: Not applicable. • Special precautions for user Warning: Flammable liquids • Hazard identification number (Kemler code): 336 • 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) • IMDG • Limited quantities (LQ) IL • Excepted quantities (EQ) Code: E2 • Maximum net quantity per inner packaging: 30 ml • MAximum net quantity per outer packaging: 500 ml	· Class	3 Flammable liquids
· DOT, ADR, IMDG, IATA II · Environmental hazards: Not applicable. · Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): 336 · EMS Number: F-E,S-D · Stowage Code SW2 Clear of living quarters. · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. SW2 Clear of living quarters. · Transport/Additional information: Code: E2 · ADR Code: E2 · Excepted quantities (EQ) LL · Limited quantities (LQ) LL · Limited quantities (EQ) Code: E2 · MDG LL · Amage code SO mil	· Label	3 (6.1)
Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): 336 · 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 IL · Limited quantities (EQ) IL · Excepted quantities (EQ) IL · Excepted quantities (EQ) IL		II
· Hazard identification number (Kemler code): 336 · 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 (EQ) IL · Excepted quantities (EQ) IMAG · Limited quantities (EQ) IL · Excepted quantities (EQ)	· Environmental hazards:	Not applicable.
 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) Excepted quantities (EQ) Code: E2 Maximum net quantity per outer packaging: 500 ml Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 500 ml 	· Hazard identification number (Kemler code): · EMS Number: · Stowage Category	336 F-E,S-D B
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 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) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 	· Transport/Additional information:	
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	· ADR · Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
· UN "Model Regulation": UN 1230 METHANOL, 3 (6.1), II	· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml
	· UN "Model Regulation":	UN 1230 METHANOL, 3 (6.1), II

15 Regulatory information

\cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara	
· Section 313 (Specific toxic chemical listings):	
All ingredients are listed.	
· TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
· Hazardous Air Pollutants	
All ingredients are listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
71-43-2 benzene	
100-41-4 ethylbenzene	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
71-43-2 benzene	
· Chemicals known to cause developmental toxicity:	
67-56-1 methanol	
71-43-2 benzene	
108-88-3 toluene	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
71-43-2 benzene	A, K/L
95-47-6 o-xylene	I
100-41-4 ethylbenzene	D
106-42-3 p-xylene	I

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108-38-3	m-xylene	I	
108-88-3	toluene	II	
• TLV (Thr	eshold Limit Value)		
71-43-2		A1	
	o-xylene	A4	
	ethylbenzene	A3	
106-42-3		A4	
108-38-3	m-xylene	A4	
108-88-3	toluene	A4	
· NIOSH-C	· NIOSH-Ca (National Institute for Occupational Safety and Health)		

71-43-2 benzene

• 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: methanol benzene toluene ethylbenzene Hazard statements H225 Highly flammable liquid and vapor. H331 Toxic if inhaled. H340 May cause genetic defects. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H370 Causes damage to the central nervous system and the visual organs. · 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. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge.

- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- Wear protective gloves/protective clothing/eye protection/face protection. P280
- 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.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- Store in a well-ventilated place. Keep cool. P403+P235
- P405 Store locked up.

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

· National regulations:

· 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 08/15/2023

· 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

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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

 Decision Exhibit contentionation, so percent

 DSD: Lethial dose, 50 percent

 PBT: 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

 REL: Recommended Exposure Limit

 Flammable Liquids 2: Flammable liquids – Category 2

 Acute Toxicity - Inhalation 3: Acute toxicity – Category 3

 Germ Cell Mutagenicity IB: Germ cell mutagenicity – Category 1B

 Carcinogenicity IA: Carcinogenicity - Category 2

 Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1

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US —



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