Page 1/8

# **1** Identification

- · Product identifier
- · Product Name: <u>1,2,3-Trichloropropane</u>
- · Part Name: S-3665-MTBE
- · 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



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



GHS08 Health hazard

Carc. 1BH350 May cause cancer.Repr. 1BH360 May damage fertility or the unborn child.



Acute Tox. 4 H312 Harmful in contact with skin.

Skin Irrit. 2 H315 Causes skin irritation.

- · 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:
- Methyl-tert-butyl ether

1,2,3-trichloropropane

- · Hazard statements
- H225 Highly flammable liquid and vapor.
- H312 Harmful in contact with skin.

H315 Causes skin irritation.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P308+P313 IF exposed or concerned: Get medical advice/attention.

(Contd. on page 2)

US

99.9%

0.1%

Safety Data Sheet acc. to OSHA HCS

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#### Product Name: 1,2,3-Trichloropropane

Reviewed on 11/18/2020

5210		(Contd. of page 1)
P312	Call a poison center/doctor if you feel unwell.	
P321	Specific treatment (see on this label).	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
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.	
· Classification sy	istem:	
· NFPA ratings (	scale 0 - 4)	
130	Health = 1 Fire = 3 Reactivity = 0	
• HMIS-ratings (	scale 0 - 4)	
HEALTH FIRE 3 REACTIVITY 0	Demotivity 0	
• Other hazards • Results of PBT • PBT: Not applic • vPvB: Not appli		

#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

- · Dangerous components:
- 1634-04-4 Methyl-tert-butyl ether

96-18-4 1,2,3-trichloropropane

# 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 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.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

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

(Contd. on page 3)

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#### Product Name: 1,2,3-Trichloropropane

· PAC-2:       1634-04-4       Methyl-tert-butyl ether       570 ppr         96-18-4       1,2,3-trichloropropane       170 ppr         · PAC-3:       170 ppr			(Contd. of page 2)
See Section 8 for information on personal protection equipment.         See Section 13 for disposal information.         • Protective Action Criteria for Chemicals         • PAC-1:         1634-04-4       Methyl-tert-butyl ether         96-18-4       1,2,3-trichloropropane         • PAC-2:         1634-04-4       Methyl-tert-butyl ether         96-18-4       1,2,3-trichloropropane         • PAC-3:       570 ppr			
See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: 1634-04-4 Methyl-tert-butyl ether 96-18-4 1,2,3-trichloropropane PAC-2: 1634-04-4 Methyl-tert-butyl ether 1634-04-4 Methyl-tert-butyl ether 96-18-4 1,2,3-trichloropropane PAC-3:			
• Protective Action Criteria for Chemicals         • PAC-1:         1634-04-4       Methyl-tert-butyl ether         96-18-4       1,2,3-trichloropropane         • PAC-2:       0.015 ppr         1634-04-4       Methyl-tert-butyl ether         1634-04-4       Methyl-tert-butyl ether         96-18-4       1,2,3-trichloropropane         • PAC-2:       1634-04-04         1634-04-4       Methyl-tert-butyl ether         96-18-4       1,2,3-trichloropropane         • PAC-3:       170 ppr			
·PAC-1:       50 ppm         1634-04-4       Methyl-tert-butyl ether       50 ppm         96-18-4       1,2,3-trichloropropane       0.015 ppi         ·PAC-2:       1634-04-4       Methyl-tert-butyl ether       570 ppi         96-18-4       1,2,3-trichloropropane       170 ppi         ·PAC-3:       -       170 ppi			
1634-04-4       Methyl-tert-butyl ether       50 ppm         96-18-4       1,2,3-trichloropropane       0.015 ppi         • PAC-2:       1634-04-4       Methyl-tert-butyl ether       570 ppi         96-18-4       1,2,3-trichloropropane       170 ppi         • PAC-3:       170 ppi		Action Crueriu jor Chemicuis	
96-18-4       1,2,3-trichloropropane       0.015 ppr         • PAC-2:       1634-04-4       Methyl-tert-butyl ether       570 ppr         96-18-4       1,2,3-trichloropropane       170 ppr         • PAC-3:       170 ppr			50
• PAC-2:       1634-04-4       Methyl-tert-butyl ether       570 ppr         96-18-4       1,2,3-trichloropropane       170 ppr         • PAC-3:       -       -			**
1634-04-4       Methyl-tert-butyl ether       570 ppr         96-18-4       1,2,3-trichloropropane       170 ppr         • PAC-3:	96-18-4	1,2,3-trichloropropane	0.015 ppm
96-18-4 1,2,3-trichloropropane 170 pp	· PAC-2:		
· PAC-3:	1634-04-4	Methyl-tert-butyl ether	570 ppm
	96-18-4	1,2,3-trichloropropane	170 ppm
1634-04-4 Methyl-tert-butyl ether 5300* pp	· PAC-3:		
	1634-04-4	Methyl-tert-butyl ether	5300* ppm
96-18-4 1,2,3-trichloropropane 1,000 ppn	96-18-4	1,2,3-trichloropropane	1,000 ppm

# 7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- 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

 $\cdot \textit{Additional information about design of technical systems:} No further data; see item 7.$ 

· Control parameters

• Components with limit values that require monitoring at the workplace:
1634-04-4 Methyl-tert-butyl ether
TLV Long-term value: 180 mg/m <sup>3</sup> , 50 ppm
96-18-4 1,2,3-trichloropropane
PEL Long-term value: 300 mg/m <sup>3</sup> , 50 ppm
REL Long-term value: 60 mg/m³, 10 ppm Skin, See Pocket Guide App. A
TLV Long-term value: 0.03 mg/m <sup>3</sup> , 0.005 ppm
• Additional information: The lists that were valid during the creation were used as basis.
<ul> <li>Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures:</li> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Immediately remove all soiled and contaminated clothing.</li> <li>Wash hands before breaks and at the end of work.</li> <li>Store protective clothing separately.</li> <li>Avoid contact with the eyes and skin.</li> <li>Respiratory protection:</li> </ul>
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.
(Contd. on page 4)

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#### Product Name: 1,2,3-Trichloropropane

· 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.



Tightly sealed goggles

# 9 Physical and chemical properties

· Information on basic physical and c	hemical 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.
<b>Boiling point/Boiling range:</b>	55.2 °C (131.4 °F)
· Flash point:	< 0 °C (< 32 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	460 °C (860 °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:	1.6 Vol %
Upper:	8.4 Vol %
$\cdot$ Vapor pressure at 20 °C (68 °F):	268 hPa (201 mm Hg)
· Density at 20 °C (68 °F)	0.74115 g/cm <sup>3</sup> (6.1849 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/wate	r): Not applicable.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	99.9 %
VOC content:	99.90 %
Solids content:	0.0 %
	(Contd. on page 5

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(Contd. of page 3)

Safety Data Sheet acc. to OSHA HCS

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#### Product Name: 1,2,3-Trichloropropane

· 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:

· · ·
-------

1634-04-4 Methyl-tert-butyl ether LD50 4,000 mg/kg (rat) Oral

1,000 mg/kg (rabbit) Dermal LD50

Inhalative LC50/4 h 142 mg/l (rat)

# 96-18-4 1,2,3-trichloropropane

Oral LD50 320 mg/kg (rat)

Dermal LD50 1,770 mg/kg (rabbit)

· 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:

Harmful

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)		
1634-04-4	Methyl-tert-butyl ether	3
96-18-4	1,2,3-trichloropropane	2A
· NTP (Natio	onal Toxicology Program)	
96-18-4 1,	2,3-trichloropropane	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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

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Product Name: 1,2,3-Trichloropropane

• 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

UNAmberUN2398ODT, OR, IMDG, IATAWetayl tert-butyl etherODTAethyl tert-butyl etherADR2398 METHVL tert-BUTYL ETHERADR2398 METHVL tert-BUTYL ETHERIMDG, IATAMETHYL tert-BUTYL ETHERIMDG, IATASTammable liquids- OOT3- Class3 Flammable liquids- Label3- ADR, IMDG, IATA3- Class3 Flammable liquids- Label3- ADR, IMDG, IATA1- Class3 Flammable liquids- Label3- Response1- Class3 Flammable liquids- Label3- Starting group1- Class3 Flammable liquids- Class5 Flammable liquids- Class5 Flammable liquids- Class5 Flammable liquids- Starting groupNot applicable Soreal precautions for sarer5 Flammable liquids- Environmentel hazards:Not applicable Transport hold kaccording to Annex II of MARPOL73/78 and the IBCNot applicable Transport hold kaccording to Annex II of MARPOL73/78 and the IBCNot applicable Transport hold kaccording to Annex II of MARPOL73/78 and the IBCNot app		
DOT       Methyl tert-budy lether         ADR       2398 METHYL tert-BUTYL ETHER         IMDG, IATA       METHYL tert-BUTYL ETHER         Transport hagard class(es)       DOT         Image: Class       3 Flammable liquids         Label       3         ADR, IMDG, IATA       3         Image: Class       3 Flammable liquids         Label       3         DOT, NDG, IATA       II         Exercentential hagards:       Not applicable.         Special precurutions for user       Warning: Flammable liquids         Stange Category       E         Code       Not applicable.         Transport/Additional information:       F.E.S-D         Stansport/Additional information:       Katimum net quantity per inner packaging: 30 ml         MDG       Linuicid quantities (LQ)       II.         Code: E2       Maximum net quantity per outer packaging: 500 ml		UN2398
• DOT            • Class        3 Flammable liquids          • Label        3          • ADR, IMDG, IATA        3             • Class        3 Flammable liquids          • ADR, IMDG, IATA        3             • Class        3 Flammable liquids          • Packing group        1          • DOT, ADR, IMDG, IATA        II          • Packing group:        11          • DOT, ADR, IMDG, IATA        II          • Special precations for user        Not applicable.         • Special precations for user        So applicable.         • Stowage Category        I          • Transport in bulk according to Annex II of MARPOL73/78 and the IBC        Not applicable.         • Transport in bulk according to Annex II of MARPOL73/78 and the IBC        Not applicable.         • Transport in bulk according to Annex II of MARPOL73/78 and the IBC        Not applicable.         • Transport in bulk according to Annex II of MARPOL76	DOT ADR	2398 METHYL tert-BUTYL ETHER
• Class       3 Flammable liquids         • Label       3         • ADR, IMDG, IATA       3         • Class       3 Flammable liquids         • ADR, IMDG, IATA       1         • Class       3 Flammable liquids         • Label       3         • Packing group       1         • DOT, ADR, IMDG, IATA       11         • Packing group       Not applicable.         • Special precautions for user       Warning: Flammable liquids         • Special precautions for user       Warning: Flammable liquids         • Special precautions for user       Not applicable.         • Special precautions for user       Warning: Flammable liquids         • Showage Category       E         • Transport in bulk according to Annex II of MARPOL73/78 and the IBC       Not applicable.         • Transport/Additional information:       Not applicable.         • Transport/Additional information:       -         • Tansport/Additional information:       -         • Limited quantities (EQ)       LL         • Code: E2       Maximum net quantity per inner packaging: 50 ml <th>-</th> <th></th>	-	
Label       3         ADR, IMDG, IATA		
<ul> <li>ADR, IMDG, IATA</li> <li>         • Class         • S Flammable liquids         • A class         • A cla</li></ul>		3
Label3Packing group • DOT, ADR, IMDG, IATAII• Environmental hazards:Not applicable.• Special precautions for userWarning: Flammable liquids• Hazard identification number (Kemler code):33• BKS Number:F-E,S-D• Stowage CategoryE• Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.• Transport houlk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.• Transport/Additional information:Not applicable.• ADR 	· ADR, IMDG, IATA	
· DOT, ADR, IMDG, IATAII· Environmental hazards:Not applicable.· Special precautions for userWarning: Flammable liquids· Hazard identification number (Kemler code):33· EMS Number:F-E,S-D· Stowage CategoryE· Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.· Transport/Additional information:Not applicable.· Transport/Additional information:Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml· IMDG · Limited quantities (LQ)IL Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		
Special precautions for user       Warning: Flammable liquids         Hazard identification number (Kemler code):       33         EMS Number:       F-E,S-D         Stowage Category       E         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport/Additional information:       Code: E2         ADR       Code: E2         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         · MAX       Code: E2         Maximum net quantity per inner packaging: 500 ml	· Packing group · DOT, ADR, IMDG, IATA	II
· Hazard identification number (Kemler code):       33         · EMS Number:       F-E,S-D         · Stowage Category       E         · 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)       Code: E2         · Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 500 ml	· Environmental hazards:	Not applicable.
Code       Not applicable.         • Transport/Additional information:       •         • ADR       •         • Excepted quantities (EQ)       Code: E2         • Maximum net quantity per inner packaging: 30 ml         • IMDG       IL         • Excepted quantities (LQ)       IL         • Excepted quantities (EQ)       Code: E2         • Maximum net quantity per outer packaging: 500 ml	· Hazard identification number (Kemler code): · EMS Number:	33 F-E,S-D
<ul> <li>ADR</li> <li>Excepted quantities (EQ)</li> <li>Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</li> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> <li>IL Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</li> </ul>		
<ul> <li>Excepted quantities (EQ)</li> <li>Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</li> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> <li>IL Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</li> </ul>	· 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		Maximum net quantity per inner packaging: 30 ml
· UN "Model Regulation": UN 2398 METHYL TERT-BUTYL ETHER, 3, II	· Limited quantities (LQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml
	· UN "Model Regulation":	UN 2398 METHYL TERT-BUTYL ETHER, 3, II

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Safety Data Sheet acc. to OSHA HCS

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# Product Name: 1,2,3-Trichloropropane

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		(Contd. of page 6)
5 Regulatory in	formation	
· Safety, health a · Sara	nd environmental regulations/legislation specific for the substance or mixture	
	ecific toxic chemical listings):	
All ingredients	are listed.	
· TSCA (Toxic S	ubstances Control Act):	
All components	have the value ACTIVE.	
· Hazardous Air	Pollutants	
	hyl-tert-butyl ether	
· Proposition 65		
· Chemicals kno	wn to cause cancer:	
96-18-4 1,2,3-1	richloropropane	
· Chemicals kno	wn to cause reproductive toxicity for females:	
	redients is listed.	
· Chemicals kno	wn to cause reproductive toxicity for males:	
	redients is listed.	
	wn to cause developmental toxicity:	
	redients is listed.	
· Carcinogenic c	5	
	nental Protection Agency)	
96-18-4 1,2,3-1	richloropropane	L
	l Limit Value established by ACGIH)	
All components	have the value A3.	
· NIOSH-Ca (Na	tional Institute for Occupational Safety and Health)	
96-18-4 1,2,3-1	richloropropane	
GHS02	GHS07 GHS08	
• Signal word Da		
	ining components of labeling:	
Methyl-tert-but 1,2,3-trichlorop		
· Hazard stateme		
	ummable liquid and vapor.	
H312 Harmful H315 Causes sk	in contact with skin.	
H350 May caus		
	age fertility or the unborn child.	
• Precautionary		
P210 P233	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed.	
P240	Ground/bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/equipment.	
P242	Use only non-sparking tools.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P303+P301+P. P308+P313	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Get medical advice/attention.	
P312	Call a poison center/doctor if you feel unwell.	
P321	Specific treatment (see on this label).	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P403+P235 P405	Store in a well-ventilated place. Keep cool. Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
		(Contd. on page 8)

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#### Product Name: 1,2,3-Trichloropropane

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· 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 11/18/2020 / -
- · 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) LCS0: 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 Flam. Liq. 2: Flammable liquids Category 2
- Acute Tox. 4: Acute toxicity Category 4 Skin Irrit. 2: Skin corrosion/irritation Category 2 Carc. 1B: Carcinogenicity Category 1B
- Repr. 1B: Reproductive toxicity Category 1B