Safety Data Sheet
acc. to OSHA HCS

Printing date 03/05/2019 *Reviewed on 03/05/2019*

1 Identification

· **Product identifier**

· **Product Name: EPA Method 524.2 Volatile Calibration Standard**

· **Part Number:** 5242-VCX-200
· **Application of the substance / the mixture** Certified Reference Material

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
SPEX CertiPrep, LLC.
203 Norcross Ave, Metuchen,
NJ 08840 USA

· **Information department:** product safety department
· **Emergency telephone number:**
Emergency Phone Number (24 hours)
CHEMTREC (800-424-9300)
Outside US: 703-527-3887

2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS02 Flame

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

GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.

GHS08 Health hazard

STOT SE 1 H370 Causes damage to organs.

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

GHS02 GHS06 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
methanol
· **Hazard statements**
H225 Highly flammable liquid and vapor.
H331 Toxic if inhaled.
H370 Causes damage to organs.
· **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Do not breathe dust/fume/gas/mist/vapors/spray.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 1
Fire = 3
Reactivity = 0

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/05/2019 *Reviewed on 03/05/2019*

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 1)

· **HMIS-ratings (scale 0 - 4)**

*Health = *1*
Fire = 3
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.

· **Dangerous components:**		
67-56-1	methanol	98.92%

· **Chemical identification of the substance/preparation**		
87-68-3	hexachlorobuta-1,3-diene	0.02%
108-38-3	m-xylene	0.02%
96-18-4	1,2,3-trichloropropane	0.02%
87-61-6	1,2,3-trichlorobenzene	0.02%
630-20-6	1,1,1,2-Tetrachloroethane	0.02%
71-55-6	1,1,1-trichloroethane	0.02%
79-00-5	1,1,2-trichloroethane	0.02%
79-34-5	1,1,2,2-tetrachloroethane	0.02%
75-34-3	1,1-dichloroethane	0.02%
75-35-4	1,1-dichloroethylene	0.02%
563-58-6	1,1-dichloropropene	0.02%
108-67-8	mesitylene	0.02%
541-73-1	1,3-dichlorobenzene	0.02%
106-93-4	1,2-dibromoethane	0.02%
96-12-8	1,2-dibromo-3-chloropropane	0.02%
95-63-6	1,2,4-trimethylbenzene	0.02%
120-82-1	1,2,4-trichlorobenzene	0.02%
78-87-5	propylene dichloride	0.02%
95-50-1	1,2-dichlorobenzene	0.02%
107-06-2	1,2-dichloroethane	0.02%
142-28-9	1,3-dichloropropane	0.02%
106-46-7	1,4-dichlorobenzene	0.02%
594-20-7	2,2-dichloropropane	0.02%
95-49-8	2-chlorotoluene	0.02%
106-43-4	4-chlorotoluene	0.02%
71-43-2	benzene	0.02%
91-20-3	naphthalene	0.02%
103-65-1	propylbenzene	0.02%
104-51-8	butylbenzene	0.02%
75-09-2	dichloromethane	0.02%
108-86-1	bromobenzene	0.02%
74-97-5	bromochloromethane	0.02%
75-27-4	bromodichloromethane	0.02%
75-25-2	bromoform	0.02%
95-47-6	o-xylene	0.02%
156-59-2	cis-dichloroethylene	0.02%
67-66-3	chloroform	0.02%
56-23-5	carbon tetrachloride	0.02%
108-90-7	chlorobenzene	0.02%

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/05/2019 Reviewed on 03/05/2019

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 2)

99-87-6	p-cymene	0.02%
106-42-3	p-xylene	0.02%
100-42-5	styrene	0.02%
135-98-8	sec-butylbenzene	0.02%
124-48-1	dibromochloromethane	0.02%
10061-01-5	(Z)-1,3-dichloropropene	0.02%
108-88-3	toluene	0.02%
98-06-6	tert-butylbenzene	0.02%
127-18-4	tetrachloroethylene	0.02%
74-95-3	dibromomethane	0.02%
156-60-5	trans-dichloroethylene	0.02%
10061-02-6	trans-1,3-Dichloropropene	0.02%
79-01-6	trichloroethylene	0.02%
100-41-4	ethylbenzene	0.02%
98-82-8	isopropylbenzene	0.02%

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.
· **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:**
Dilute with plenty of water.
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:**		
67-56-1	methanol	530 ppm
87-68-3	hexachlorobuta-1,3-diene	1 ppm

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/05/2019 Reviewed on 03/05/2019

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 3)

108-38-3	m-xylene	130 ppm
96-18-4	1,2,3-trichloropropane	0.015 ppm
87-61-6	1,2,3-trichlorobenzene	15 mg/m³
630-20-6	1,1,1,2-Tetrachloroethane	0.2 ppm
71-55-6	1,1,1-trichloroethane	230 ppm
79-00-5	1,1,2-trichloroethane	30 ppm
79-34-5	1,1,2,2-tetrachloroethane	3 ppm
75-34-3	1,1-dichloroethane	300 ppm
75-35-4	1,1-dichloroethylene	45 ppm
563-58-6	1,1-dichloropropene	1.3 ppm
108-67-8	mesitylene	140 ppm
541-73-1	1,3-dichlorobenzene	6 ppm
106-93-4	1,2-dibromoethane	17 ppm
96-12-8	1,2-dibromo-3-chloropropane	0.003 ppm
95-63-6	1,2,4-trimethylbenzene	140 ppm
120-82-1	1,2,4-trichlorobenzene	0.45 ppm
78-87-5	propylene dichloride	30 ppm
95-50-1	1,2-dichlorobenzene	50 ppm
107-06-2	1,2-dichloroethane	50 ppm
142-28-9	1,3-dichloropropane	5.4 ppm
106-46-7	1,4-dichlorobenzene	30 ppm
594-20-7	2,2-dichloropropane	2.6 ppm
95-49-8	2-chlorotoluene	75 ppm
106-43-4	4-chlorotoluene	1.2 ppm
71-43-2	benzene	52 ppm
91-20-3	naphthalene	15 ppm
103-65-1	propylbenzene	3.7 ppm
104-51-8	butylbenzene	3.6 ppm

· **PAC-2:**		
67-56-1	methanol	2,100 ppm
87-68-3	hexachlorobuta-1,3-diene	3 ppm
108-38-3	m-xylene	920 ppm
96-18-4	1,2,3-trichloropropane	170 ppm
87-61-6	1,2,3-trichlorobenzene	60 mg/m³
630-20-6	1,1,1,2-Tetrachloroethane	2.2 ppm
71-55-6	1,1,1-trichloroethane	600 ppm
79-00-5	1,1,2-trichloroethane	180 ppm
79-34-5	1,1,2,2-tetrachloroethane	120 ppm
75-34-3	1,1-dichloroethane	670 ppm
75-35-4	1,1-dichloroethylene	500 ppm
563-58-6	1,1-dichloropropene	15 ppm
108-67-8	mesitylene	360 ppm
541-73-1	1,3-dichlorobenzene	66 ppm
106-93-4	1,2-dibromoethane	24 ppm
96-12-8	1,2-dibromo-3-chloropropane	2.2 ppm
95-63-6	1,2,4-trimethylbenzene	360 ppm
120-82-1	1,2,4-trichlorobenzene	5 ppm
78-87-5	propylene dichloride	220 ppm
95-50-1	1,2-dichlorobenzene	170 ppm
107-06-2	1,2-dichloroethane	200 ppm
142-28-9	1,3-dichloropropane	59 ppm
106-46-7	1,4-dichlorobenzene	170 ppm
594-20-7	2,2-dichloropropane	29 ppm
95-49-8	2-chlorotoluene	310 ppm
106-43-4	4-chlorotoluene	13 ppm

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/05/2019 Reviewed on 03/05/2019

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 4)

71-43-2	benzene	800 ppm
91-20-3	naphthalene	83 ppm
103-65-1	propylbenzene	41 ppm
104-51-8	butylbenzene	40 ppm

· **PAC-3:**

67-56-1	methanol	7200* ppm
87-68-3	hexachlorobuta-1,3-diene	10 ppm
108-38-3	m-xylene	2500* ppm
96-18-4	1,2,3-trichloropropane	1,000 ppm
87-61-6	1,2,3-trichlorobenzene	360 mg/m³
630-20-6	1,1,1,2-Tetrachloroethane	13 ppm
71-55-6	1,1,1-trichloroethane	4,200 ppm
79-00-5	1,1,2-trichloroethane	500 ppm
79-34-5	1,1,2,2-tetrachloroethane	150 ppm
75-34-3	1,1-dichloroethane	4,000 ppm
75-35-4	1,1-dichloroethylene	1,000 ppm
563-58-6	1,1-dichloropropene	87 ppm
108-67-8	mesitylene	480 ppm
541-73-1	1,3-dichlorobenzene	400 ppm
106-93-4	1,2-dibromoethane	46 ppm
96-12-8	1,2-dibromo-3-chloropropane	4.3 ppm
95-63-6	1,2,4-trimethylbenzene	480 ppm
120-82-1	1,2,4-trichlorobenzene	20 ppm
78-87-5	propylene dichloride	2,000 ppm
95-50-1	1,2-dichlorobenzene	1,000 ppm
107-06-2	1,2-dichloroethane	300 ppm
142-28-9	1,3-dichloropropane	350 ppm
106-46-7	1,4-dichlorobenzene	1,000 ppm
594-20-7	2,2-dichloropropane	170 ppm
95-49-8	2-chlorotoluene	1,800 ppm
106-43-4	4-chlorotoluene	80 ppm
71-43-2	benzene	4000* ppm
91-20-3	naphthalene	500 ppm
103-65-1	propylbenzene	240 ppm
104-51-8	butylbenzene	240 ppm

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.

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 5)

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:**	
67-56-1 methanol	
PEL	Long-term value: 260 mg/m³, 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
TLV	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI

· **Ingredients with biological limit values:**	
67-56-1 methanol	
BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

· **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.

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 6)

· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	64.7 °C (148.5 °F)
· **Flash point:**	< 23 °C (<73.4 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	455 °C (851 °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:	5.5 Vol %
Upper:	44 Vol %
· **Vapor pressure at 20 °C (68 °F):**	128 hPa (96 mm Hg)
· **Density**	Not applicable.
· **Relative density**	Not applicable.
· **Vapor density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not applicable.
· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· **Solvent content:**	
Organic solvents:	99.5 %
VOC content:	99.42 %
Solids content:	0.1 %
· **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:**		
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

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
87-68-3	hexachlorobuta-1,3-diene	3

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 7)

108-38-3	m-xylene	3
96-18-4	1,2,3-trichloropropane	2A
630-20-6	1,1,1,2-Tetrachloroethane	2B
71-55-6	1,1,1-trichloroethane	3
79-00-5	1,1,2-trichloroethane	3
79-34-5	1,1,2,2-tetrachloroethane	2B
75-35-4	1,1-dichloroethylene	3
541-73-1	1,3-dichlorobenzene	3
106-93-4	1,2-dibromoethane	2A
96-12-8	1,2-dibromo-3-chloropropane	2B
78-87-5	propylene dichloride	1
95-50-1	1,2-dichlorobenzene	3
107-06-2	1,2-dichloroethane	2B
106-46-7	1,4-dichlorobenzene	2B
71-43-2	benzene	1
91-20-3	naphthalene	2B
75-09-2	dichloromethane	2A
75-27-4	bromodichloromethane	2B
75-25-2	bromoform	3
95-47-6	o-xylene	3
67-66-3	chloroform	2B
56-23-5	carbon tetrachloride	2B
106-42-3	p-xylene	3
100-42-5	styrene	2B
124-48-1	dibromochloromethane	3
108-88-3	toluene	3
127-18-4	tetrachloroethylene	2A
79-01-6	trichloroethylene	1
100-41-4	ethylbenzene	2B

· **NTP (National Toxicology Program)**

96-18-4	1,2,3-trichloropropane	R
106-93-4	1,2-dibromoethane	R
96-12-8	1,2-dibromo-3-chloropropane	R
107-06-2	1,2-dichloroethane	R
106-46-7	1,4-dichlorobenzene	R
71-43-2	benzene	K
91-20-3	naphthalene	R
75-09-2	dichloromethane	R
75-27-4	bromodichloromethane	R
67-66-3	chloroform	R
56-23-5	carbon tetrachloride	R
100-42-5	styrene	R
127-18-4	tetrachloroethylene	R
79-01-6	trichloroethylene	K
98-82-8	isopropylbenzene	R

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

96-12-8	1,2-dibromo-3-chloropropane
71-43-2	benzene
75-09-2	dichloromethane

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.

(Contd. on page 9)

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/05/2019 Reviewed on 03/05/2019

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 8)

· **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.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADR, IMDG, IATA**	UN1230
· **UN proper shipping name**	
· **DOT**	Methanol
· **ADR**	1230 METHANOL
· **IMDG, IATA**	METHANOL
· **Transport hazard class(es)**	
· **DOT**	
· **Class**	3 Flammable liquids
· **Label**	3, 6.1
· **ADR**	
· **Class**	3 Flammable liquids
· **Label**	3+6.1
· **IMDG**	
· **Class**	3 Flammable liquids
· **Label**	3/6.1
· **IATA**	
· **Class**	3 Flammable liquids

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/05/2019 Reviewed on 03/05/2019

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 9)

· **Label**	3 (6.1)
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	II
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Flammable liquids
· **Danger code (Kemler):**	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 (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 1230 METHANOL, 3 (6.1), II

15 Regulatory information

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

· **Section 313 (Specific toxic chemical listings):**	
67-56-1	methanol
87-68-3	hexachlorobuta-1,3-diene
108-38-3	m-xylene
96-18-4	1,2,3-trichloropropane
630-20-6	1,1,1,2-Tetrachloroethane
71-55-6	1,1,1-trichloroethane
79-00-5	1,1,2-trichloroethane
79-34-5	1,1,2,2-tetrachloroethane
75-34-3	1,1-dichloroethane
75-35-4	1,1-dichloroethylene
541-73-1	1,3-dichlorobenzene
106-93-4	1,2-dibromoethane
96-12-8	1,2-dibromo-3-chloropropane
95-63-6	1,2,4-trimethylbenzene
120-82-1	1,2,4-trichlorobenzene
78-87-5	propylene dichloride
95-50-1	1,2-dichlorobenzene
107-06-2	1,2-dichloroethane
106-46-7	1,4-dichlorobenzene
71-43-2	benzene
91-20-3	naphthalene
75-09-2	dichloromethane
75-27-4	bromodichloromethane
75-25-2	bromoform
95-47-6	o-xylene
67-66-3	chloroform
56-23-5	carbon tetrachloride
108-90-7	chlorobenzene

(Contd. on page 11)

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/05/2019 *Reviewed on 03/05/2019*

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 10)

106-42-3	p-xylene
100-42-5	styrene

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

67-56-1	methanol
87-68-3	hexachlorobuta-1,3-diene
108-38-3	m-xylene
96-18-4	1,2,3-trichloropropane
87-61-6	1,2,3-trichlorobenzene
630-20-6	1,1,1,2-Tetrachloroethane
71-55-6	1,1,1-trichloroethane
79-00-5	1,1,2-trichloroethane
79-34-5	1,1,2,2-tetrachloroethane
75-34-3	1,1-dichloroethane
75-35-4	1,1-dichloroethylene
108-67-8	mesitylene
541-73-1	1,3-dichlorobenzene
106-93-4	1,2-dibromoethane
96-12-8	1,2-dibromo-3-chloropropane
95-63-6	1,2,4-trimethylbenzene
120-82-1	1,2,4-trichlorobenzene
78-87-5	propylene dichloride
95-50-1	1,2-dichlorobenzene
107-06-2	1,2-dichloroethane
142-28-9	1,3-dichloropropane
106-46-7	1,4-dichlorobenzene
594-20-7	2,2-dichloropropane
95-49-8	2-chlorotoluene
106-43-4	4-chlorotoluene
71-43-2	benzene
91-20-3	naphthalene
103-65-1	propylbenzene
104-51-8	butylbenzene
75-09-2	dichloromethane

· **Proposition 65**

· **Chemicals known to cause cancer:**

87-68-3	hexachlorobuta-1,3-diene
96-18-4	1,2,3-trichloropropane
630-20-6	1,1,1,2-Tetrachloroethane
79-00-5	1,1,2-trichloroethane
79-34-5	1,1,2,2-tetrachloroethane
75-34-3	1,1-dichloroethane
75-35-4	1,1-dichloroethylene
106-93-4	1,2-dibromoethane
96-12-8	1,2-dibromo-3-chloropropane
78-87-5	propylene dichloride
107-06-2	1,2-dichloroethane
106-46-7	1,4-dichlorobenzene
71-43-2	benzene
91-20-3	naphthalene
75-09-2	dichloromethane
75-27-4	bromodichloromethane
75-25-2	bromoform
67-66-3	chloroform
56-23-5	carbon tetrachloride
100-42-5	styrene

(Contd. on page 12)

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/05/2019 Reviewed on 03/05/2019

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 11)

127-18-4	tetrachloroethylene
79-01-6	trichloroethylene
100-41-4	ethylbenzene
98-82-8	isopropylbenzene

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

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

106-93-4	1,2-dibromoethane
96-12-8	1,2-dibromo-3-chloropropane
71-43-2	benzene
79-01-6	trichloroethylene

· **Chemicals known to cause developmental toxicity:**

67-56-1	methanol
106-93-4	1,2-dibromoethane
71-43-2	benzene
67-66-3	chloroform
108-88-3	toluene
79-01-6	trichloroethylene

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

87-68-3	hexachlorobuta-1,3-diene	C
108-38-3	m-xylene	I
96-18-4	1,2,3-trichloropropane	L
630-20-6	1,1,1,2-Tetrachloroethane	C
71-55-6	1,1,1-trichloroethane	II
79-00-5	1,1,2-trichloroethane	C
79-34-5	1,1,2,2-tetrachloroethane	L
75-34-3	1,1-dichloroethane	C
75-35-4	1,1-dichloroethylene	C, S (inh.), I (oral)
108-67-8	mesitylene	II
541-73-1	1,3-dichlorobenzene	D
106-93-4	1,2-dibromoethane	L
95-63-6	1,2,4-trimethylbenzene	II
120-82-1	1,2,4-trichlorobenzene	D
95-50-1	1,2-dichlorobenzene	D
107-06-2	1,2-dichloroethane	B2
71-43-2	benzene	A, K/L
91-20-3	naphthalene	C, CBD
75-09-2	dichloromethane	L
108-86-1	bromobenzene	II
74-97-5	bromochloromethane	D
75-27-4	bromodichloromethane	B2
75-25-2	bromoform	B2
95-47-6	o-xylene	I
156-59-2	cis-dichloroethylene	II
67-66-3	chloroform	B2, L, NL
56-23-5	carbon tetrachloride	L
108-90-7	chlorobenzene	D
106-42-3	p-xylene	I
124-48-1	dibromochloromethane	C

· **TLV (Threshold Limit Value established by ACGIH)**

87-68-3	hexachlorobuta-1,3-diene	A3
108-38-3	m-xylene	A4
96-18-4	1,2,3-trichloropropane	A3
71-55-6	1,1,1-trichloroethane	A4

(Contd. on page 13)

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/05/2019 Reviewed on 03/05/2019

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 12)

79-00-5	1,1,2-trichloroethane	A3
79-34-5	1,1,2,2-tetrachloroethane	A3
75-34-3	1,1-dichloroethane	A4
75-35-4	1,1-dichloroethylene	A4
106-93-4	1,2-dibromoethane	A3
78-87-5	propylene dichloride	A4
95-50-1	1,2-dichlorobenzene	A4
107-06-2	1,2-dichloroethane	A4
106-46-7	1,4-dichlorobenzene	A3
71-43-2	benzene	A1
91-20-3	naphthalene	A4
75-09-2	dichloromethane	A3
75-25-2	bromoform	A3
95-47-6	o-xylene	A4
67-66-3	chloroform	A3
56-23-5	carbon tetrachloride	A2
108-90-7	chlorobenzene	A3
106-42-3	p-xylene	A4
100-42-5	styrene	A4
108-88-3	toluene	A4
127-18-4	tetrachloroethylene	A3
79-01-6	trichloroethylene	A2
100-41-4	ethylbenzene	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
87-68-3	hexachlorobuta-1,3-diene
96-18-4	1,2,3-trichloropropane
79-00-5	1,1,2-trichloroethane
79-34-5	1,1,2,2-tetrachloroethane
75-35-4	1,1-dichloroethylene
106-93-4	1,2-dibromoethane
96-12-8	1,2-dibromo-3-chloropropane
78-87-5	propylene dichloride
107-06-2	1,2-dichloroethane
106-46-7	1,4-dichlorobenzene
71-43-2	benzene
75-09-2	dichloromethane
67-66-3	chloroform
56-23-5	carbon tetrachloride
127-18-4	tetrachloroethylene
79-01-6	trichloroethylene

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

GHS02 GHS06 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
methanol
· **Hazard statements**
H225 Highly flammable liquid and vapor.
H331 Toxic if inhaled.
H370 Causes damage to organs.
· **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.

(Contd. on page 14)

Safety Data Sheet
acc. to OSHA HCS

Product Name: EPA Method 524.2 Volatile Calibration Standard

(Contd. of page 13)

Do not breathe dust/fume/gas/mist/vapors/spray.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Store locked up.
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** *03/05/2019 / -*
· **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1