

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 13.03.2015

Revision: 13.03.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- English additional compounds
- 1.1 Product identifier
- Trade name: TCLP Calibration/Spiking Mix
- Article number: ECS-N-018
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the mixture *matériau de référence certifié*
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
SPEX CertiPrep
203 Norcross Avenue
Metuchen, NJ 08840
USA
- Further information obtainable from: product safety department
- 1.4 Emergency telephone number:
Emergency Phone Number (24 hours)
CHEMTREC (800-424-9300)
Outside US: 703-527-3887

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Carc. 1B H350 May cause cancer.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



T; Toxic

R45: May cause cancer.



Xn; Harmful

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 2.2 Label elements

- Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:



T Toxic

- Hazard-determining components of labelling:

dichloromethane
hexachlorobenzene
2,4-dinitrotoluene
bis(2-chloroethyl) ether

- Risk phrases:

45 May cause cancer.

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20/21/22 Also harmful by inhalation, in contact with skin and if swallowed.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

• Safety phrases:

53 Avoid exposure - obtain special instructions before use.
1/2 Keep locked up and out of the reach of children.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

• 2.3 Other hazards**• Results of PBT and vPvB assessment****• PBT:**

87-68-3 hexachlorobuta-1,3-diene

• vPvB:

87-68-3 hexachlorobuta-1,3-diene

SECTION 3: Composition/information on ingredients**• 3.2 Chemical characterisation: Mixtures****• Description:** Mixture of substances listed below with nonhazardous additions.**• Dangerous components:**

CAS: 75-09-2 EINECS: 200-838-9 Index number: 602-004-00-3	dichloromethane ☒ Xn R40 Carc. Cat. 3 ☒ Carc. 2, H351	97,0%
CAS: 106-46-7 EINECS: 203-400-5 Index number: 602-035-00-2	1,4-dichlorobenzene ☒ Xn R40; ☒ Xi R36; ☒ N R50/53 Carc. Cat. 3 ☒ Carc. 2, H351; ☒ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☒ Eye Irrit. 2, H319	0,2%
CAS: 95-95-4 EINECS: 202-467-8 Index number: 604-017-00-X	2,4,5-trichlorophenol ☒ Xn R22; ☒ Xi R36/38; ☒ N R50/53 ☒ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☒ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	0,2%
CAS: 88-06-2 EINECS: 201-795-9 Index number: 604-018-00-5	2,4,6-trichlorophenol ☒ Xn R22-40; ☒ Xi R36/38; ☒ N R50/53 Carc. Cat. 3 ☒ Carc. 2, H351; ☒ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☒ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	0,2%
CAS: 121-14-2 EINECS: 204-450-0 Index number: 609-007-00-9	2,4-dinitrotoluene ☒ T Carc. Cat. 2 R45-23/24/25; ☒ Xn R48/22-62-68; ☒ N R51/53 Muta. Cat. 3, Repr. Cat. 3 ☒ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ☒ Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361f; STOT RE 2, H373; ☒ Aquatic Chronic 2, H411	0,2%
CAS: 95-48-7 EINECS: 202-423-8 Index number: 604-004-00-9	o-cresol ☒ T R24/25; ☒ C R34 ☒ Acute Tox. 3, H301; Acute Tox. 3, H311; ☒ Skin Corr. 1B, H314	0,2%
CAS: 108-39-4 EINECS: 203-577-9 Index number: 604-004-00-9	3-Methylphenol ☒ T R24/25; ☒ C R34 ☒ Acute Tox. 3, H301; Acute Tox. 3, H311; ☒ Skin Corr. 1B, H314	0,2%
CAS: 106-44-5 EINECS: 203-398-6 Index number: 604-004-00-9	p-cresol ☒ T R24/25; ☒ C R34 ☒ Acute Tox. 3, H301; Acute Tox. 3, H311; ☒ Skin Corr. 1B, H314	0,2%
CAS: 111-44-4 EINECS: 203-870-1 Index number: 603-029-00-2	bis(2-chloroethyl) ether ☒ T+ R26/27/28; ☒ Xn R40 R10 Carc. Cat. 3 ☒ Flam. Liq. 3, H226; ☒ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ☒ Carc. 2, H351	0,2%
CAS: 118-74-1 EINECS: 204-273-9 Index number: 602-065-00-6	hexachlorobenzene ☒ T Carc. Cat. 2 R45-48/25; ☒ N R50/53 ☒ Carc. 1B, H350; STOT RE 1, H372; ☒ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0,2%

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CAS: 87-68-3 EINECS: 201-765-5	hexachlorobuta-1,3-diene PBT; vPvB ☠ T R25; ☠ Xn R21 ⚠ Acute Tox. 3, H301; ⚠ Acute Tox. 4, H312	0,2%
CAS: 98-95-3 EINECS: 202-716-0 Index number: 609-003-00-7	nitrobenzene ☠ T R23/24/25-48/23/24; ☠ Xn R40-62; ☠ N R51/53 Carc. Cat. 3, Repr. Cat. 3 ⚠ Acute Tox. 3, H301; ⚠ Acute Tox. 3, H311; ⚠ Acute Tox. 3, H331; ⚠ Carc. 2, H351; Repr. 2, H361f; STOT RE 1, H372; ⚠ Aquatic Chronic 2, H411	0,2%
CAS: 87-86-5 EINECS: 201-778-6 Index number: 604-002-00-8	pentachlorophenol ☠ T+ R26; ☠ T R24/25; ☠ Xn R40; ☠ Xi R36/37/38; ☠ N R50/53 Carc. Cat. 3 ⚠ Acute Tox. 3, H301; ⚠ Acute Tox. 3, H311; ⚠ Acute Tox. 2, H330; ⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	0,2%
CAS: 108-95-2 EINECS: 203-632-7 Index number: 604-001-00-2	phenol ☠ T R23/24/25; ☠ C R34; ☠ Xn R48/20/21/22-68 Muta. Cat. 3 ⚠ Acute Tox. 3, H301; ⚠ Acute Tox. 3, H311; ⚠ Acute Tox. 3, H331; ⚠ Muta. 2, H341; STOT RE 2, H373; ⚠ Skin Corr. 1B, H314	0,2%

CHEMICAL IDENTIFICATION OF THE SUBSTANCE/PREPARATION

CAS: 67-72-1 EINECS: 200-666-4	hexachloroethane	☠ Xn R48/22 ⚠ STOT RE 2, H373	0,2%
CAS: 110-86-1	Nitrogen (from Pyridine)		0,2%

SVHC

121-14-2 2,4-dinitrotoluene

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 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.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

· Ingredients with limit values that require monitoring at the workplace:	
98-95-3 nitrobenzene	
IOELV	Long-term value: 1 mg/m ³ , 0,2 ppm Skin
108-95-2 phenol	
IOELV	Short-term value: 16 mg/m ³ , 4 ppm Long-term value: 8 mg/m ³ , 2 ppm Skin

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **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:**

Safety glasses

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Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	Fluid
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.

· **pH-value:** Not determined.

· Change in condition

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	40 °C

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 605 °C

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

· Lower:	13,0 Vol %
· Upper:	22,0 Vol %

· **Vapour pressure at 20 °C:** 453 hPa

· **Density:** Not determined.

· **Relative density:** Not determined.

· **Vapour density:** Not determined.

· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· Viscosity:

· Dynamic:	Not determined.
· Kinematic:	Not determined.

· Solvent content:

· Organic solvents:	97,8 %
· VOC (EC)	97,80 %

· **Solids content:** 2,0 %

· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity

· 10.2 Chemical stability

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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SECTION 11: Toxicological information· **11.1 Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values relevant for classification:****75-09-2 dichloromethane**

Oral LD50 1600 mg/kg (rat)

Inhalative LC50/4 h 88 mg/l (rat)

106-46-7 1,4-dichlorobenzene

Oral LD50 500 mg/kg (rat)

88-06-2 2,4,6-trichlorophenol

Oral LD50 820 mg/kg (rat)

121-14-2 2,4-dinitrotoluene

Oral LD50 268 mg/kg (rat)

111-44-4 bis(2-chloroethyl) ether

Oral LD50 75 mg/kg (rat)

Dermal LD50 90 mg/kg (rabbit)

Inhalative LC50/4 h 0,33 mg/l (rat)

87-86-5 pentachlorophenol

Oral LD50 27 mg/kg (rat)

Dermal LD50 105 mg/kg (rat)

· **Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** No irritating effect.· **Sensitisation:** No sensitising effects known.· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Carcinogenic.

SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:** No further relevant information available.· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **Ecotoxicological effects:**· **Remark:** Harmful to fish· **Additional ecological information:**· **General notes:**

Water hazard class 3 (German Regulation) (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.

Harmful to aquatic organisms

· **12.5 Results of PBT and vPvB assessment**· **PBT:**

87-68-3 hexachlorobuta-1,3-diene

· **vPvB:**

87-68-3 hexachlorobuta-1,3-diene

· **12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations**· **13.1 Waste treatment methods**· **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN1593
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1593 DICHLOROMETHANE DICHLOROMETHANE
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA	
· Class · Label	6.1 Toxic substances. 6.1
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Segregation groups	Warning: Toxic substances. 60 F-A,S-A Liquid halogenated hydrocarbons
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	2 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN1593, DICHLOROMETHANE, 6.1, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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.
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**
121-14-2 2,4-dinitrotoluene
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 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.

Relevant phrases

H226	Flammable liquid and vapour.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
R10	Flammable.
R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R24/25	Toxic in contact with skin and if swallowed.
R25	Toxic if swallowed.
R26	Very toxic by inhalation.
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes and skin.
R40	Limited evidence of a carcinogenic effect.
R45	May cause cancer.
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R48/23/24	Toxic: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R68	Possible risk of irreversible effects.

• **Department issuing MSDS:** product safety department

Contact:

SPEX CertiPrep Inc.
732-549-7144

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
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 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)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Flam. Liq. 3: Flammable liquids, Hazard Category 3
 Acute Tox. 2: Acute toxicity, Hazard Category 2
 Acute Tox. 3: Acute toxicity, Hazard Category 3
 Acute Tox. 4: Acute toxicity, Hazard Category 4
 Acute Tox. 1: Acute toxicity, Hazard Category 1
 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
 Muta. 2: Germ cell mutagenicity, Hazard Category 2
 Carc. 1B: Carcinogenicity, Hazard Category 1B

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Carc. 2: Carcinogenicity, Hazard Category 2
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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