

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 01/26/2016

Reviewed on 01/26/2016

## 1 Identification

- **Product identifier**
- **Product Name:** Performance Check Solution
- **Part Number:** 5252-PCS
- **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**



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- **Label elements**

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



GHS07



GHS08

- **Signal word** Warning

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

dichloromethane

- **Hazard statements**

Harmful if swallowed.

Suspected of causing cancer.

- **Precautionary statements**

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

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 = 0

Reactivity = 0

- **HMS-ratings (scale 0 - 4)**



Health = \*1

Fire = 0

Reactivity = 0

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- **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:**

|         |                 |        |
|---------|-----------------|--------|
| 75-09-2 | dichloromethane | 99.85% |
|---------|-----------------|--------|

- **Chemical identification of the substance/preparation**

|           |   |       |
|-----------|---|-------|
| 50-29-3   | 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane | 0.05% |
| 5074-71-5 | bis(pentafluorophenyl) phenyl phosphite       | 0.05% |
| 72-20-8   | endrin (ISO)                                  | 0.05% |

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **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:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to 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.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **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:** None.

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· **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 item 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:****75-09-2 dichloromethane**

|     |  |
|-----|--|
| PEL | Short-term value: 125 ppm<br>Long-term value: 25 ppm<br>see 29 CFR 1910.1052 |
| REL | See Pocket Guide App. A  |
| TLV | Long-term value: 174 mg/m <sup>3</sup> , 50 ppm<br>BEI                       |

· **Ingredients with biological limit values:****75-09-2 dichloromethane**

|     |   |
|-----|---|
| BEI | 0.3 mg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Dichloromethane (semi-quantitative) |
|-----|---|

· **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.  
Wash hands before breaks and at the end of work.

· **Breathing equipment:**

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:** Safety glasses**9 Physical and chemical properties**· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

|                         |                                    |
|-------------------------|------------------------------------|
| <b>Form:</b>            | Liquid                             |
| <b>Color:</b>           | According to product specification |
| <b>Odor:</b>            | Characteristic                     |
| <b>Odour Threshold:</b> | Not applicable.                    |

· **pH-value:** Not applicable.· **Change in condition**

|                                     |                |
|-------------------------------------|----------------|
| <b>Melting point/Melting range:</b> | Undetermined.  |
| <b>Boiling point/Boiling range:</b> | 40 °C (104 °F) |

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

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|   |   |
|---|---|
| · <b>Ignition temperature:</b>                                    |   |
| · <b>Decomposition temperature:</b>                               | Not applicable.                               |
| · <b>Auto igniting:</b>   | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>                                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>  |   |
| · <b>Lower:</b>   | Not applicable.                               |
| · <b>Upper:</b>   | Not applicable.                               |
| · <b>Vapor pressure:</b>  | Not determined.                               |
| · <b>Density at 20 °C (68 °F)</b>                                 | 1.32899 g/cm <sup>3</sup> (11.09 lbs/gal)     |
| · <b>Relative density</b>   | Not applicable.                               |
| · <b>Vapor density</b>  | Not applicable.                               |
| · <b>Evaporation rate</b>   | Not applicable.                               |
| · <b>Solubility in / Miscibility with Water:</b>                  |   |
|   | Not miscible or difficult to mix.             |
| · <b>Partition coefficient (n-octanol/water):</b> Not applicable. |   |
| · <b>Viscosity:</b>   |   |
| · <b>Dynamic:</b>   | Not applicable.                               |
| · <b>Kinematic:</b>   | Not applicable.                               |
| · <b>Solvent content:</b>   |   |
| · <b>Organic solvents:</b>  | 99.8 %  |
| · <b>Solids content:</b>  | 0.2 %   |
| · <b>Other information</b>  | 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:**

|   |          |                  |
|---|----------|------------------|
| · <b>LD/LC50 values that are relevant for classification:</b> |          |                  |
| 75-09-2 dichloromethane                                       |          |                  |
| Oral  | LD50     | 1600 mg/kg (rat) |
| Inhalative  | LC50/4 h | 88 mg/l (rat)    |
| 72-20-8 endrin (ISO)  |          |                  |
| Oral  | LD50     | 7 mg/kg (rat)    |
| Dermal  | LD50     | 60 mg/kg (rat)   |

- **Primary irritant effect:**
- **on the skin:** No 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:

- **Carcinogenic categories**

|   |   |    |
|---|---|----|
| · <b>IARC (International Agency for Research on Cancer)</b> |   |    |
| 75-09-2   | dichloromethane                               | 2B |
| 50-29-3   | 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane | 2B |
| 72-20-8   | endrin (ISO)                                  | 3  |

- **NTP (National Toxicology Program)**

|         |                 |   |
|---------|-----------------|---|
| 75-09-2 | dichloromethane | R |
|---------|-----------------|---|

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50-29-3 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane

R

· OSHA-Ca (Occupational Safety &amp; Health Administration)

75-09-2 dichloromethane



### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |   |  |
|---|--|
| · <b>UN-Number</b><br>· <b>DOT, ADR, IMDG, IATA</b>   | UN1593   |
| · <b>UN proper shipping name</b><br>· <b>DOT, IATA</b><br>· <b>ADR</b><br>· <b>IMDG</b>         | Dichloromethane<br>1593 Dichloromethane<br>DICHLOROMETHANE |
| · <b>Transport hazard class(es)</b><br>· <b>DOT</b>   |  |
|              |  |
| · <b>Class</b><br>· <b>Label</b>  | 6.1 Toxic substances<br>6.1                                |
| · <b>ADR, IMDG, IATA</b>  |  |
|              |  |
| · <b>Class</b><br>· <b>Label</b>  | 6.1 Toxic substances<br>6.1                                |
| · <b>Packing group</b><br>· <b>DOT, ADR, IMDG, IATA</b>   | III  |
| · <b>Environmental hazards:</b>   | Not applicable.  |
| · <b>Special precautions for user</b><br>· <b>Danger code (Kemler):</b><br>· <b>EMS Number:</b> | Warning: Toxic substances<br>60<br>F-A,S-A                 |

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|   |  |
|---|--|
| · Segregation groups  | Liquid halogenated hydrocarbons  |
| · Stowage Category  | A  |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable.  |
| · Transport/Additional information:                                       |  |
| · ADR   |  |
| · Excepted quantities (EQ)  | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · IMDG  |  |
| · Limited quantities (LQ)   | 5L   |
| · Excepted quantities (EQ)  | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · UN "Model Regulation":  | UN 1593 DICHLOROMETHANE, 6.1, III  |

### 15 Regulatory information

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

· Sara

|  |   |    |
|--|---|----|
| · Section 355 (extremely hazardous substances):                    |   |    |
| 72-20-8  | endrin (ISO)                                  |    |
| · Section 313 (Specific toxic chemical listings):                  |   |    |
| 75-09-2  | dichloromethane                               |    |
| · TSCA (Toxic Substances Control Act):                             |   |    |
| 75-09-2  | dichloromethane                               |    |
| 50-29-3  | 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane |    |
| · Proposition 65   |   |    |
| · Chemicals known to cause cancer:                                 |   |    |
| 75-09-2  | dichloromethane                               |    |
| 50-29-3  | 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane |    |
| · Chemicals known to cause reproductive toxicity for females:      |   |    |
| 50-29-3  | 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane |    |
| · Chemicals known to cause reproductive toxicity for males:        |   |    |
| 50-29-3  | 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane |    |
| · Chemicals known to cause developmental toxicity:                 |   |    |
| 50-29-3  | 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane |    |
| 72-20-8  | endrin (ISO)                                  |    |
| · Carcinogenic categories  |   |    |
| · EPA (Environmental Protection Agency)                            |   |    |
| 75-09-2  | dichloromethane                               | L  |
| 50-29-3  | 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane | B2 |
| 72-20-8  | endrin (ISO)                                  | D  |
| · TLV (Threshold Limit Value established by ACGIH)                 |   |    |
| 75-09-2  | dichloromethane                               | A3 |
| 50-29-3  | 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane | A3 |
| 72-20-8  | endrin (ISO)                                  | A4 |
| · NIOSH-Ca (National Institute for Occupational Safety and Health) |   |    |
| 75-09-2  | dichloromethane                               |    |
| 50-29-3  | 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane |    |

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

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## · Hazard pictograms



GHS07

GHS08

## · Signal word Warning

## · Hazard-determining components of labeling:

dichloromethane

## · Hazard statements

Harmful if swallowed.

Suspected of causing cancer.

## · Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

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 01/26/2016 / -

## · 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)

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 &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEL: Biological Exposure Limit

Acute Tox. 4: Acute toxicity, Hazard Category 4

Carc. 2: Carcinogenicity, Hazard Category 2