

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 - Europe

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

#### 1.1 Product identifier

Product name : Hempel's Galvosil 15709 Base  
Product identity : 1570919840  
Product type : zinc silicate primer (base for multi-component product)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Field of application : metal industry  
Ready-for-use mixture : 15700 = 15709 6.5 vol. / 97170 2 vol.  
Identified uses : Industrial applications, Used by spraying.

#### 1.3 Details of the supplier of the safety data sheet

Company details : HEMPEL A/S  
Lundtoftegårdsvej 91  
DK-2800 Kgs. Lyngby  
Denmark  
Tel.: + 45 45 93 38 00  
hempel@hempel.com  
Date of issue : 18 November 2022  
Date of previous issue : 4 August 2022.

#### 1.4 Emergency telephone number

Emergency telephone number (with hours of operation)  
  
+45 45 93 38 00 (08.00 - 17.00)  
See section 4 First aid measures.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

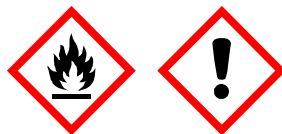
#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

|                         |   |
|-------------------------|---|
| Flam. Liq. 2, H225      | FLAMMABLE LIQUIDS   |
| Skin Irrit. 2, H315     | SKIN CORROSION/IRRITATION   |
| Eye Irrit. 2, H319      | SERIOUS EYE DAMAGE/ EYE IRRITATION                                  |
| STOT SE 3, H336         | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) |
| Aquatic Chronic 3, H412 | AQUATIC HAZARD (LONG-TERM)  |

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms :



Signal word : Danger  
Hazard statements : H225 - Highly flammable liquid and vapor.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H336 - May cause drowsiness or dizziness.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hazardous ingredients : methoxy-2-propanol

Supplemental label elements :

#### Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

#### 2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### SECTION 2: Hazards identification

Other hazards which do not result in classification : None known.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

| Product/ingredient name                  | Identifiers   | %         | Regulation (EC) No. 1272/2008 [CLP]  | Type    |
|--|---|-----------|--|---------|
| 1-methoxy-2-propanol                     | REACH #: 01-2119457435-35<br>EC: 203-539-1<br>CAS: 107-98-2<br>Index: 603-064-00-3  | ≥10 - ≤25 | Flam. Liq. 3, H226<br>STOT SE 3, H336  | [1] [2] |
| xylene                                   | REACH #: 01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | ≥10 - ≤25 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315  | [1] [2] |
| ethanol                                  | REACH #: 01-2119457610-43<br>EC: 200-578-6<br>CAS: 64-17-5                          | ≥10 - ≤25 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319   | [1] [2] |
| solvent naphtha (petroleum), light arom. | REACH #: 01-2119455851-35<br>EC: 918-668-5<br>CAS: 64742-95-6                       | ≥5 - ≤10  | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066                   | [1] [2] |
| propan-2-ol                              | REACH #: 01-2119457558-25<br>EC: 200-661-7<br>CAS: 67-63-0<br>Index: 603-117-00-0   | ≥5 - ≤10  | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336  | [1] [2] |
| ethylbenzene                             | REACH #: 01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4  | ≥3 - ≤5   | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>(hearing organs)<br>Asp. Tox. 1, H304                                 | [1] [2] |
| zinc chloride                            | REACH #: 01-2119472431-44<br>EC: 231-592-0<br>CAS: 7646-85-7<br>Index: 030-003-00-2 | ≤0.83     | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | [1]     |
| toluene                                  | REACH #: 01-2119471310-51<br>EC: 203-625-9<br>CAS: 108-88-3<br>Index: 601-021-00-3  | ≤0.3      | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361d<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304               | [1] [2] |
|  |   |           | See Section 16 for the full text of the H statements declared above.   |         |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard  
[2] Substance with a workplace exposure limit, see section 8.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.  
If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 112 and give immediate treatment (first aid).
- Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. In all cases of doubt, or when symptoms persist, seek medical attention.
- Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and get medical attention immediately.
- Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

### SECTION 4: First aid measures

|                              |  |
|------------------------------|--|
| Ingestion :                  | If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so that vomit will not re-enter the mouth and throat.   |
| Protection of first-aiders : | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

#### 4.2 Most important symptoms and effects, both acute and delayed

##### Potential acute health effects

|                |   |
|----------------|---|
| Eye contact :  | Causes serious eye irritation.  |
| Inhalation :   | Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. |
| Skin contact : | Causes skin irritation.   |
| Ingestion :    | Can cause central nervous system (CNS) depression.                                    |

##### Over-exposure signs/symptoms

|                |   |
|----------------|---|
| Eye contact :  | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness  |
| Inhalation :   | Adverse symptoms may include the following:<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness |
| Skin contact : | Adverse symptoms may include the following:<br>irritation<br>redness  |
| Ingestion :    | No specific data.   |

#### 4.3 Indication of any immediate medical attention and special treatment needed

|                       |   |
|-----------------------|---|
| Notes to physician :  | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments : | No specific treatment.  |

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

|                       |   |
|-----------------------|---|
| Extinguishing media : | Recommended: alcohol resistant foam, CO <sub>2</sub> , powders, water spray.<br>Not to be used: waterjet. |
|-----------------------|---|

#### 5.2 Special hazards arising from the substance or mixture

|   |  |
|---|--|
| Hazards from the substance or mixture : | Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous combustion products :         | Decomposition products may include the following materials: carbon oxides metal oxide/oxides   |

#### 5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid all direct contact with the spilled material. Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

#### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### 6.3 Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.

Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

#### 7.3 Specific end use(s)

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

| Product/ingredient name                  | Exposure limit values   |
|--|---|
| methoxy-2-propanol                       | <b>EU OEL (Europe, 1/2022). Absorbed through skin.</b><br>STEL: 568 mg/m <sup>3</sup> 15 minutes.<br>STEL: 150 ppm 15 minutes.<br>TWA: 375 mg/m <sup>3</sup> 8 hours.<br>TWA: 100 ppm 8 hours.                        |
| xylene                                   | <b>EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absorbed through skin.</b><br>TWA: 50 ppm 8 hours.<br>TWA: 221 mg/m <sup>3</sup> 8 hours.<br>STEL: 100 ppm 15 minutes.<br>STEL: 442 mg/m <sup>3</sup> 15 minutes. |
| ethanol                                  | <b>EU OEL (Europe).</b><br>TWA: 1000 ppm 8 hours.   |
| solvent naphtha (petroleum), light arom. | <b>EU OEL (Europe).</b><br>TWA: 120 mg/m <sup>3</sup> 8 hours. Form: Tentativ<br>TWA: 25 ppm 8 hours. Form: Tentativ  |
| propan-2-ol                              | <b>EU OEL (Europe, 2/2010).</b><br>(ACGIH) TWA: 200 ppm 8 hours.  |

### SECTION 8: Exposure controls/personal protection

|              |   |
|--------------|---|
| ethylbenzene | (ACGIH) STEL: 400 ppm 15 minutes.<br><b>EU OEL (Europe, 1/2022). Absorbed through skin.</b><br>STEL: 884 mg/m <sup>3</sup> 15 minutes.<br>STEL: 200 ppm 15 minutes.<br>TWA: 442 mg/m <sup>3</sup> 8 hours.<br>TWA: 100 ppm 8 hours. |
| toluene      | <b>EU OEL (Europe, 1/2022). Absorbed through skin.</b><br>TWA: 192 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.<br>STEL: 384 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.                                       |

#### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### Derived effect levels

| Product/ingredient name                  | Type | Exposure             | Value                 | Population | Effects  |
|--|------|----------------------|-----------------------|------------|----------|
| 1-methoxy-2-propanol                     | DNEL | Long term Dermal     | 50.6 mg/kg bw/day     | Workers    | Systemic |
|  | DNEL | Long term Inhalation | 369 mg/m <sup>3</sup> | Workers    | Systemic |
| xylene                                   | DNEL | Long term Inhalation | 77 mg/m <sup>3</sup>  | Workers    | Systemic |
|  | DNEL | Long term Dermal     | 180 mg/kg bw/day      | Workers    | Systemic |
| ethanol                                  | DNEL | Long term Inhalation | 950 mg/m <sup>3</sup> | Workers    | Systemic |
|  | DNEL | Long term Dermal     | 343 mg/kg bw/day      | Workers    | Systemic |
| solvent naphtha (petroleum), light arom. | DNEL | Long term Dermal     | 25 mg/kg bw/day       | Workers    | Systemic |
|  | DNEL | Long term Inhalation | 150 mg/m <sup>3</sup> | Workers    | Systemic |
| propan-2-ol                              | DNEL | Long term Dermal     | 888 mg/kg bw/day      | Workers    | Systemic |
|  | DNEL | Long term Inhalation | 500 mg/m <sup>3</sup> | Workers    | Systemic |
| ethylbenzene                             | DNEL | Long term Dermal     | 180 mg/kg bw/day      | Workers    | Systemic |
|  | DNEL | Long term Inhalation | 77 mg/m <sup>3</sup>  | Workers    | Systemic |
| zinc chloride                            | DNEL | Long term Inhalation | 1 mg/m <sup>3</sup>   | Workers    | Systemic |
|  | DNEL | Long term Dermal     | 8.3 mg/kg bw/day      | Workers    | Systemic |
| toluene                                  | DNEL | Long term Dermal     | 384 mg/kg bw/day      | Workers    | Systemic |
|  | DNEL | Long term Inhalation | 192 mg/m <sup>3</sup> | Workers    | Systemic |

#### Predicted effect concentrations

| Product/ingredient name | Compartment Detail     | Value         | Method Detail |
|-------------------------|------------------------|---------------|---------------|
| 1-methoxy-2-propanol    | Fresh water            | 10 mg/l       | -             |
|                         | Marine water           | 1 mg/l        | -             |
|                         | Fresh water sediment   | 41.6 mg/kg    | -             |
|                         | Sediment               | 4.7 mg/kg     | -             |
|                         | Soil                   | 2.47 mg/kg    | -             |
|                         | Sewage Treatment Plant | 100 mg/l      | -             |
| xylene                  | Marine water sediment  | 5.2 mg/kg dwt | -             |
|                         | Fresh water            | 0.327 mg/l    | -             |
|                         | Marine water           | 0.327 mg/l    | -             |
|                         | Fresh water sediment   | 12.46 mg/kg   | -             |
|                         | Marine water sediment  | 12.46 mg/kg   | -             |
|                         | Soil                   | 2.31 mg/kg    | -             |
| ethanol                 | Sewage Treatment Plant | 6.68 mg/l     | -             |
|                         | Fresh water            | 0.96 mg/l     | -             |
|                         | Marine water           | 0.79 mg/l     | -             |
|                         | Fresh water sediment   | 3.6 mg/kg     | -             |
|                         | Marine water sediment  | 2.9 mg/kg     | -             |
|                         | Soil                   | 0.63 mg/kg    | -             |
| propan-2-ol             | Fresh water            | 140.9 mg/l    | -             |
|                         | Marine water           | 140.9 mg/l    | -             |
|                         | Fresh water sediment   | 552 mg/kg     | -             |
|                         | Marine water sediment  | 552 mg/kg     | -             |
|                         | Soil                   | 28 mg/kg      | -             |
|                         | Sewage Treatment Plant | 2251 mg/l     | -             |
| ethylbenzene            | Fresh water            | 0.1 mg/l      | -             |
|                         | Marine water           | 0.01 mg/l     | -             |
|                         | Sewage Treatment Plant | 9.6 mg/l      | -             |
|                         | Fresh water sediment   | 13.7 mg/kg    | -             |
|                         | Soil                   | 2.68 mg/kg    | -             |

### SECTION 8: Exposure controls/personal protection

|                 |                        |             |   |
|-----------------|------------------------|-------------|---|
| zinc chloride   | Fresh water            | 20.6 µg/l   | - |
|                 | Marine water           | 6.1 µg/l    | - |
|                 | Fresh water sediment   | 117.8 mg/kg | - |
|                 | Marine water sediment  | 56.5 mg/kg  | - |
|                 | Soil                   | 35.6 mg/kg  | - |
| toluene         | Sewage Treatment Plant | 52 µg/l     | - |
|                 | Fresh water            | 0.68 mg/l   | - |
|                 | Marine water           | 0.68 mg/l   | - |
|                 | Sewage Treatment Plant | 13.61 mg/l  | - |
|                 | Fresh water sediment   | 16.39 mg/kg | - |
| propyleneglycol | Marine water sediment  | 16.39 mg/kg | - |
|                 | Soil                   | 2.89 mg/kg  | - |
|                 | Fresh water            | 260 mg/l    | - |
|                 | Marine water           | 26 mg/l     | - |
|                 | Sewage Treatment Plant | 20000 mg/l  | - |
|                 | Fresh water sediment   | 572 mg/kg   | - |
|                 | Marine water sediment  | 57.2 mg/kg  | - |
|                 | Soil                   | 50 mg/kg    | - |

#### 8.2 Exposure controls

##### Appropriate engineering controls

Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

##### Individual protection measures

- General : Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure.
- Hygiene measures : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.
- Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Hand protection : Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. The quality of the chemical-resistant protective gloves must be chosen as a function of the specific workplace concentrations and quantity of hazardous substances.  
Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the appropriate type. Below listed glove(s) should be regarded as generic advice:  
  
Recommended: Silver Shield / Barrier / 4H gloves, Viton®  
May be used: polyvinyl alcohol (PVA), nitrile rubber, neoprene rubber, butyl rubber  
Short term exposure: natural rubber (latex), polyvinyl chloride (PVC)
- Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved handling this product.  
Wear suitable protective clothing. Always wear protective clothing when spraying.
- Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. Be sure to use an approved/certified respirator or equivalent.  
**This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed or organic vapor filter (Type AX).**

##### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state :                               | Liquid.   |
| Color :  | Gray  |
| Odor :   | Solvent-like  |
| pH :   | Testing not relevant or not possible due to nature of the product.  |
| Melting point/freezing point :                 | Testing not relevant or not possible due to nature of the product.  |
| Boiling point/boiling range :                  | Testing not relevant or not possible due to nature of the product.  |
| Flash point :                                  | Closed cup: 14°C (57.2°F)   |
| Evaporation rate :                             | Testing not relevant or not possible due to nature of the product.  |
| Flammability :                                 | Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.<br>Highly flammable in the presence of the following materials or conditions: heat and oxidizing materials.<br>Slightly flammable in the presence of the following materials or conditions: reducing materials. |
| Lower and upper explosive (flammable) limits : | 0.8 - 19 vol %  |
| Vapor pressure :                               | Testing not relevant or not possible due to nature of the product.  |
| Vapor density :                                | Testing not relevant or not possible due to nature of the product.  |
| Specific gravity :                             | 1.103 g/cm <sup>3</sup>   |
| Partition coefficient (LogKow) :               | Testing not relevant or not possible due to nature of the product.  |
| Auto-ignition temperature :                    | Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).   |
| Decomposition temperature :                    | Testing not relevant or not possible due to nature of the product.  |
| Viscosity :                                    | Aspiration hazard (H304) Not classified. Testing not relevant due to nature of the product.   |
| Explosive properties :                         | Explosive in the presence of the following materials or conditions: oxidizing materials.<br>Slightly explosive in the presence of the following materials or conditions: reducing materials.  |
| Oxidizing properties :                         | Testing not relevant or not possible due to nature of the product.  |

#### 9.2 Other information

|                                      |   |
|--------------------------------------|---|
| Solvent(s) % by weight :             | Weighted average: 79 %                    |
| Water % by weight :                  | Weighted average: 0 %                     |
| VOC content :                        | 585 g/l (Measured)                        |
| VOC content, Ready-for-use mixture : | 474 g/l [Measured]                        |
| Solvent Gas :                        | Weighted average: 0.324 m <sup>3</sup> /l |

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

#### 10.2 Chemical stability

The product is stable.

#### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

#### 10.5 Incompatible materials

Highly reactive or incompatible with the following materials: oxidizing materials and acids.  
Reactive or incompatible with the following materials: reducing materials.

#### 10.6 Hazardous decomposition products

### SECTION 10: Stability and reactivity

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

Decomposition products may include the following materials: carbon oxides metal oxide/oxides

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Exposure to component solvent vapor concentrations may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

#### Acute toxicity

| Product/ingredient name                  | Result                | Species | Dose                     | Exposure |
|--|-----------------------|---------|--------------------------|----------|
| 1-methoxy-2-propanol                     | LD50 Dermal           | Rabbit  | 13 g/kg                  | -        |
|  | LD50 Dermal           | Rabbit  | >2000 mg/kg              | -        |
|  | LD50 Oral             | Rat     | 4016 mg/kg               | -        |
| xylene                                   | LC50 Inhalation Gas.  | Rat     | 5000 ppm                 | 4 hours  |
|  | LC50 Inhalation Vapor | Rat     | 6350 ppm                 | 4 hours  |
|  | LD50 Dermal           | Rabbit  | >4200 mg/kg              | -        |
|  | LD50 Oral             | Rat     | 3523 mg/kg               | -        |
| ethanol                                  | LC50 Inhalation Vapor | Rat     | 124700 mg/m <sup>3</sup> | 4 hours  |
|  | LD50 Oral             | Rat     | 7060 mg/kg               | -        |
| solvent naphtha (petroleum), light arom. | LC50 Inhalation Vapor | Rat     | 6193 mg/m <sup>3</sup>   | 4 hours  |
|  | LD50 Dermal           | Rabbit  | 3160 mg/kg               | -        |
|  | LD50 Oral             | Rat     | 8400 mg/kg               | -        |
| propan-2-ol                              | LD50 Dermal           | Rabbit  | >5000 mg/kg              | -        |
|  | LD50 Intraperitoneal  | Rabbit  | 667 mg/kg                | -        |
|  | LD50 Oral             | Rat     | >5000 mg/kg              | -        |
|  | LDLo Oral             | Human   | 3570 mg/kg               | -        |
| ethylbenzene                             | LD50 Dermal           | Rabbit  | >5000 mg/kg              | -        |
|  | LD50 Oral             | Rat     | 3500 mg/kg               | -        |
| zinc chloride                            | LD50 Oral             | Rat     | 1100 - 1260 mg/kg        | -        |
| toluene                                  | LC50 Inhalation Vapor | Rat     | >20 mg/l                 | 4 hours  |
|  | LD50 Oral             | Rat     | 636 mg/kg                | -        |

#### Acute toxicity estimates

| Product/ingredient name                  | Oral mg/kg | Dermal mg/kg | Inhalation (gases) ppm | Inhalation (vapors) mg/l | Inhalation (dusts and mists) mg/l |
|--|------------|--------------|------------------------|--------------------------|-----------------------------------|
| Hempel's Galvosil 15709 Base             |            |              |                        |                          |                                   |
| 1-methoxy-2-propanol                     | 4016       | 8325.1       | 37841.1                | 370.6                    |                                   |
| xylene                                   | 3523       | 13000        | 5000                   |                          |                                   |
| ethanol                                  | 7060       | 1100         |                        | 124.7                    |                                   |
| solvent naphtha (petroleum), light arom. | 8400       | 3160         |                        |                          |                                   |
| ethylbenzene                             | 3500       |              |                        | 11                       |                                   |
| zinc chloride                            | 500        |              |                        |                          |                                   |

#### Irritation/Corrosion

| Product/ingredient name                  | Result                      | Species | Score | Exposure                   |
|--|-----------------------------|---------|-------|----------------------------|
| 1-methoxy-2-propanol                     | Eyes - Mild irritant        | Rabbit  | -     | 24 hours 500 milligrams    |
| xylene                                   | Eyes - Severe irritant      | Rabbit  | -     | 24 hours 5 milligrams      |
|  | Skin - Irritant             | Rabbit  | -     | -                          |
|  | Skin - Moderate irritant    | Rabbit  | -     | 24 hours 500 milligrams    |
| ethanol                                  | Eyes - Mild irritant        | Rabbit  | -     | 24 hours 500 milligrams    |
|  | Skin - Moderate irritant    | Rabbit  | -     | 24 hours 20 milligrams     |
| solvent naphtha (petroleum), light arom. | Eyes - Mild irritant        | Rabbit  | -     | 24 hours 100 microliters   |
| propan-2-ol                              | Eyes - Moderate irritant    | Rabbit  | -     | 24 hours 100 milligrams    |
|  | Skin - Mild irritant        | Rabbit  | -     | 500 milligrams             |
| ethylbenzene                             | Eyes - Mild irritant        | Rabbit  | -     | -                          |
|  | Respiratory - Mild irritant | Rabbit  | -     | -                          |
|  | Skin - Mild irritant        | Rabbit  | -     | 24 hours 15 milligrams     |
| zinc chloride                            | Skin - Severe irritant      | Rabbit  | -     | 120 hours 1 Percent        |
| toluene                                  | Eyes - Mild irritant        | Rabbit  | -     | 0.5 minutes 100 milligrams |
|  | Skin - Moderate irritant    | Rabbit  | -     | 24 hours 20 milligrams     |



### SECTION 11: Toxicological information

#### Mutagenic effects

No known significant effects or critical hazards.

#### Carcinogenicity

No known significant effects or critical hazards.

#### Reproductive toxicity

No known significant effects or critical hazards.

#### Teratogenic effects

No known significant effects or critical hazards.

#### Specific target organ toxicity (single exposure)

| Product/ingredient name   | Category                               | Route of exposure | Target organs  |
|---|--|-------------------|--|
| 1-methoxy-2-propanol<br>propan-2-ol<br>Solvent naphtha (petroleum), light arom. | Category 3<br>Category 3<br>Category 3 |                   | Narcotic effects<br>Narcotic effects<br>Respiratory tract irritation                                 |
| 1,2,4-trimethylbenzene<br>zinc chloride<br>toluene                              | Category 3<br>Category 3<br>Category 3 |                   | Narcotic effects<br>Respiratory tract irritation<br>Respiratory tract irritation<br>Narcotic effects |

#### Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category                 | Route of exposure | Target organs       |
|-------------------------|--------------------------|-------------------|---------------------|
| ethylbenzene<br>toluene | Category 2<br>Category 2 | -<br>-            | hearing organs<br>- |

#### Aspiration hazard

| Product/ingredient name   | Result   |
|---|--|
| Solvent naphtha (petroleum), light arom.<br>ethylbenzene<br>toluene | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

#### Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential chronic health effects

##### 11.2 Information on other hazards

Endocrine disrupting properties : See Section 15 for details.

Other information : No additional known significant effects or critical hazards.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Do not allow to enter drains or watercourses. Harmful to aquatic life with long lasting effects.

| Product/ingredient name                  | Result                               | Species   | Exposure |
|--|--------------------------------------|---|----------|
| 1-methoxy-2-propanol                     | Acute EC50 1000 mg/l                 | Algae - Pseudokirchneriella subcapitata (green algae) | 7 days   |
| ethanol                                  | Acute EC50 23300 mg/l                | Daphnia - Daphnia magna (Water flea)                  | 48 hours |
|  | Acute LC50 6812 mg/l                 | Fish - Leuciscus idus                                 | 96 hours |
| solvent naphtha (petroleum), light arom. | Chronic NOEC 4.995 mg/l Marine water | Algae - Ulva pertusa                                  | 96 hours |
|  | Chronic NOEC 0.375 µl/L Fresh water  | Fish - Gambusia holbrooki - Larvae                    | 12 weeks |
| ethylbenzene                             | Acute EC50 19 mg/l                   | Algae - Pseudokirchneriella subcapitata (green algae) | 96 hours |
|  | Acute EC50 6.14 mg/l                 | Daphnia - Daphnia magna                               | 48 hours |
| zinc chloride                            | Acute LC50 9.22 mg/l                 | Fish - Oncorhynchus mykiss (rainbow trout)            | 96 hours |
|  | Chronic NOEC <1000 µg/l Fresh water  | Algae - Pseudokirchneriella subcapitata               | 96 hours |
| zinc chloride                            | Acute EC50 34 µg/l Fresh water       | Algae - Chlorella vulgaris - Exponential growth phase | 72 hours |
|  | Acute EC50 1.8 mg/l Fresh water      | Aquatic plants - Lemna aequinoctiales                 | 96 hours |
|  | Acute EC50 100 µg/l Fresh water      | Daphnia - Daphnia magna                               | 48 hours |
|  | Acute LC50 49.99 µg/l Fresh water    | Crustaceans - Moina irrasa - Neonate                  | 48 hours |
|  | Acute LC50 0.027 mg/l Marine water   | Fish - Limanda punctatissima - Pre-larvae             | 96 hours |
|  | Chronic NOEC 20 µg/l Marine water    | Algae - Chlorella sp. - Exponential                   | 72 hours |

### SECTION 12: Ecological information

|         |                                       |   |          |
|---------|---------------------------------------|---|----------|
| toluene | Chronic NOEC 1000 µg/l Fresh water    | growth phase<br>Crustaceans - <i>Procambarus clarkii</i> -<br>Intermolt       | 21 days  |
|         | Chronic NOEC 80 µg/l Fresh water      | Daphnia - <i>Daphnia magna</i> - Juvenile<br>(Fledgling, Hatchling, Weanling) | 21 days  |
|         | Chronic NOEC 31.5 µg/l Fresh water    | Fish - <i>Oncorhynchus mykiss</i>   | 30 days  |
|         | Chronic NOEC <500000 µg/l Fresh water | Algae - <i>Pseudokirchneriella subcapitata</i>                                | 96 hours |
|         | Chronic NOEC 1000 µg/l Fresh water    | Daphnia - <i>Daphnia magna</i>  | 21 days  |

#### 12.2 Persistence and degradability

| Product/ingredient name                     | Test  | Result                        | Dose     | Inoculum |
|---|---|-------------------------------|----------|----------|
| 1-methoxy-2-propanol                        | OECD 301E Ready<br>Biodegradability - Modified OECD<br>Screening Test | 96 % - Readily - 28 days      | -        | -        |
| xylene                                      | OECD 301F Ready<br>Biodegradability - Manometric<br>Respirometry Test | 90 - 98 % - Readily - 28 days | -        | -        |
| ethanol                                     | -   | >60 % - Readily - 28 days     | -        | -        |
| solvent naphtha (petroleum), light<br>arom. | -   | 84 % - Readily - 20 days      | -        | -        |
| propan-2-ol                                 | -   | >70 % - Readily - 28 days     | -        | -        |
| ethylbenzene                                | -   | 86 % - 14 days                | 100 mg/l | -        |
| toluene                                     | -   | >70 % - Readily - 28 days     | -        | -        |
|   | -   | 100 % - Readily - 14 days     | -        | -        |

| Product/ingredient name                     | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| 1-methoxy-2-propanol                        | -                 | -          | Readily          |
| xylene                                      | -                 | -          | Readily          |
| ethanol                                     | -                 | -          | Readily          |
| solvent naphtha (petroleum), light<br>arom. | -                 | -          | Readily          |
| propan-2-ol                                 | -                 | -          | Readily          |
| ethylbenzene                                | -                 | -          | Readily          |
| toluene                                     | -                 | -          | Readily          |

#### 12.3 Bioaccumulative potential

| Product/ingredient name                  | LogP <sub>ow</sub> | BCF        | Potential |
|--|--------------------|------------|-----------|
| 1-methoxy-2-propanol                     | <1                 | <100       | low       |
| xylene                                   | 3.12               | 8.1 - 25.9 | low       |
| ethanol                                  | -0.35              | -          | low       |
| solvent naphtha (petroleum), light arom. | -                  | 10 - 2500  | high      |
| propan-2-ol                              | 0.05               | 3          | low       |
| ethylbenzene                             | 3.6                | -          | low       |
| zinc chloride                            | 2.2                | 60960      | high      |
| toluene                                  | 2.73               | 90         | low       |

#### 12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>): No known data available in our database.

Mobility: No known data available in our database.

#### 12.5 Results of PBT and vPvB assessment

| Product/ingredient name   | PBT | P | B | T | vPvB | vP | vB |
|---|-----|---|---|---|------|----|----|
| This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |     |   |   |   |      |    |    |

#### 12.6 Endocrine disrupting properties

See Section 15 for details.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

European waste catalogue no. (EWC) is given below.




European waste catalogue (EWC) : 08 01 11\*

#### Packaging

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

### SECTION 14: Transport information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

|                      | 14.1<br>UN / ID no. | 14.2<br>Proper shipping name | 14.3<br>Transport hazard class(es)   | 14.4<br>PG* | 14.5<br>Env* | Additional information   |
|----------------------|---------------------|------------------------------|--|-------------|--------------|--|
| <b>ADR/RID Class</b> | UN1263              | PAINT                        | 3<br>   | II          | No.          | <b>Special provisions</b> 640 (D)<br><b>Tunnel code</b> (D/E)<br><b>Remarks</b> H-15 |
| <b>IMDG Class</b>    | UN1263              | PAINT                        | 3<br>  | II          | No.          | <b>Emergency schedules</b><br>F-E, S-E   |
| <b>IATA Class</b>    | UN1263              | PAINT                        | 3<br> | II          | No.          | -  |

PG\* : Packing group

Env.\* : Environmental hazards

#### 14.6 Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

### SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization - Substances of very high concern

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

##### Other EU regulations

**Seveso category** This product is controlled under the Seveso III Directive.

##### Seveso category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

#### 15.2 Chemical Safety Assessment

### SECTION 16: Other information

Abbreviations and acronyms :

ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 EUH statement = CLP-specific Hazard statement  
 RRN = REACH Registration Number  
 DNEL = Derived No Effect Level  
 PNEC = Predicted No Effect Concentration

Full text of abbreviated H statements :

H225 Highly flammable liquid and vapor.  
 H226 Flammable liquid and vapor.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H361d Suspected of damaging the unborn child.  
 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.  
 H412 Harmful to aquatic life with long lasting effects.  
 EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS] :

Acute Tox. 4 ACUTE TOXICITY - Category 4  
 Aquatic Acute 1 AQUATIC HAZARD (ACUTE) - Category 1  
 Aquatic Chronic 1 AQUATIC HAZARD (LONG-TERM) - Category 1  
 Aquatic Chronic 2 AQUATIC HAZARD (LONG-TERM) - Category 2  
 Aquatic Chronic 3 AQUATIC HAZARD (LONG-TERM) - Category 3  
 Asp. Tox. 1 ASPIRATION HAZARD - Category 1  
 Eye Dam. 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
 Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2  
 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3  
 Repr. 2 TOXIC TO REPRODUCTION - Category 2  
 Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B  
 Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2  
 STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2  
 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification  | Justification   |
|---|---|
| FLAMMABLE LIQUIDS<br>SKIN CORROSION/IRRITATION<br>SERIOUS EYE DAMAGE/ EYE IRRITATION<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects)<br>AQUATIC HAZARD (LONG-TERM) | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method |

**Notice to reader**

🔍 Indicates information that has changed from previously issued version.

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical performance or suitability for particular applications.

It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.

# Safe Use of Mixture Information

## Hempel's Galvosil 15709 Base



This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

### General description of the process covered

Indoor or outdoor spray painting by professionals or with brush, roller, putty knife, dipping etc. with good general room ventilation

**This safe use information is linked to** : Professional spray painting and/or low-energy painting, local effect - Level II  
Skin Sens. 1, Eye Irrit. 2 , Asp. Tox. 1 or Solvent.

**Sector(s) of use** : Industrial uses - Professional uses

**Product category(ies)** : Coatings and paints, thinners, paint removers

### Operational conditions

**Place of use** : Indoor or outdoor use

### Risk management measures (RMM)

| Contributing activity   | Process category (ies) | Maximum duration  | Ventilation                              |       | Respiratory  | Eye                                     | Hands                                 |
|---|------------------------|-------------------|--|-------|--|---|---------------------------------------|
|   |                        |                   | Type and air changes per hour            |       |  |   |                                       |
| Preparation of material for application                                     | PROC05                 | More than 4 hours | Good general room ventilation - Outdoors | 3 - 5 | None   | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Loading of application equipment and handling of coated parts before curing | PROC08a                | More than 4 hours | Good general room ventilation - Outdoors | 3 - 5 | None   | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Professional application of coatings by brush or roller                     | PROC10                 | More than 4 hours | Good general room ventilation - Outdoors | 3 - 5 | None   | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Professional application of coatings by spraying                            | PROC11                 | More than 4 hours | Good general room ventilation - Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Film formation - force drying, stoving and other technologies               | PROC04                 | More than 4 hours | Good general room ventilation - Outdoors | 3 - 5 | None   | None                                    | None                                  |
| Cleaning  | PROC05                 | More than 4 hours | Good general room ventilation - Outdoors | 3 - 5 | None   | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Waste management  | PROC08a                | More than 4 hours | Good general room ventilation - Outdoors | 3 - 5 | None   | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |

See chapter 8 of this Safety Data Sheet for specifications.

