

## **SAFETY DATA SHEET**

True-Phos Perm Buffer

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

1.1 Product identifier

Product name : True-Phos Perm Buffer

Product code : 425401
Product type : Liquid.
Other means of : Not available.

identification

. Not available.

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

Product use : Research.

Area of application : Industrial applications.

**Uses advised against** 

None identified.

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

BioLegend Inc. 8999 BioLegend Way

San Diego, CA 92121 - USA

Tel: +1-858-455-9588 (7:00AM – 5:00PM PT, M-F) **e-mail address of person** : cs@biolegend.com

responsible for this SDS

### **Only representative**

BioLegend Inc. 4B Highgate Business Centre 33 Greenwood Place

London, NW5 1LB - UK Tel: +44 (0) 20 3475 3880 http://www.biolegend.com/uk

### 1.4 Emergency telephone number

### National advisory body/Poison Centre

Telephone number : Call 111 if you urgently need medical help or advice but it's not a life-threatening

situation (NHS 111 service).

NHS 111 is available 24 hours a day, 365 days a year

**Supplier** 

**Telephone number** : +44 (0) 20 3475 3880 (9:00AM - 5:00PM GMT, M-F)

### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition : Mixture

<u>Classification according to UK CLP/GHS</u>

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version : 3 1/15

True-Phos Perm Buffer

### SECTION 2: Hazards identification

Mam. Lig. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311

Acute Tox. 3, H331

**STOT SE 1, H370** 

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

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

#### 2.2 Label elements

**Hazard pictograms** 







Signal word : Danger

**⊮**225 - Highly flammable liquid and vapour. **Hazard statements** 

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.

H370 - Causes damage to organs.

**Precautionary statements** 

**Prevention** : P280 - Wear protective gloves and protective clothing.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P260 - Do not breathe vapour.

: P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor. Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

**Storage** : Not applicable.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

**Hazardous ingredients** 

Supplemental label

elements

methanol

: Not applicable.

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

: Not applicable.

articles

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Mot applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

vPvB.

Other hazards which do not result in classification

: None known.

Date of issue/Date of revision : 21/06/2022 : 09/11/2023 Version 2/15 Date of previous issue

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers  | %   | Classification   | Type    |
|-------------------------|--|-----|--|---------|
| methanol                | EC: 200-659-6<br>CAS: 67-56-1<br>Index: 603-001-00-X | ≥90 | Flam. Liq. 2, H225<br>Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 3, H331<br>STOT SE 1, H370<br>(central nervous<br>system (CNS), eyes) | [1] [2] |
|                         |  |     | See Section 16 for<br>the full text of the H<br>statements declared<br>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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

- Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version : 3 3/15

True-Phos Perm Buffer

### **SECTION 4: First aid measures**

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

### **Over-exposure signs/symptoms**

**Eye contact** : No specific data. Inhalation : No specific data. : No specific data. **Skin contact** : No specific data. Ingestion

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

Notes to physician : Freat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

: No specific treatment. **Specific treatments** 

### SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

media

Sand.

Unsuitable extinguishing

media

: Do not use water jet.

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

**Hazards from the** substance or mixture : Highly flammable liquid and vapour. 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.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: 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. Move containers from fire area if this can be done without risk.

Use water spray to keep fire-exposed containers cool.

**Special protective** equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### SECTION 6: Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Woold dispersal of spilt 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).

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version: 3 4/15

### **SECTION 6: Accidental release measures**

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

### **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the 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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 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

### **Protective measures**

eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### **Seveso Directive - Reporting thresholds**

### **Danger criteria**

|            | Notification and MAPP threshold | Safety report threshold |
|------------|---------------------------------|-------------------------|
| <b>F</b> 2 | 50 tonne                        | 200 tonne               |
| H3         | 50 tonne                        | 200 tonne               |
| P5c        | 5000 tonne                      | 50000 tonne             |

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version : 3 5/15

True-Phos Perm Buffer

## **SECTION 7: Handling and storage**

### 7.3 Specific end use(s)

Recommendations : Not available. **Industrial sector specific** : Not available.

solutions

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### Occupational exposure limits

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| methanol                | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.                     |
|                         | STEL: 333 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes.                                    |
|                         | TWA: 266 mg/m³ 8 hours.  |
|                         | TWA: 200 ppm 8 hours. <b>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list</b> |
|                         | of indicative occupational exposure limit values TWA: 200 ppm 8 hours.                   |
|                         | TWA: 260 mg/m³ 8 hours.  |

### **Biological exposure indices**

None known.

procedures

Recommended monitoring : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **DNELs/DMELs**

| Product/ingredient name | Type | Exposure                 | Value                 | Population                                 | Effects  |
|-------------------------|------|--------------------------|-----------------------|--|----------|
| nethanol                | DNEL | Long term Dermal         | 40 mg/kg<br>bw/day    | Workers                                    | Systemic |
|                         | DNEL | Long term Dermal         | 8 mg/kg<br>bw/day     | General population                         | Systemic |
|                         | DNEL | Long term Oral           | 8 mg/kg<br>bw/day     | [Consumers] General population [Consumers] | Systemic |
|                         | DNEL | Short term Dermal        | 40 mg/kg<br>bw/day    | Workers                                    | Systemic |
|                         | DNEL | Short term Dermal        | 8 mg/kg<br>bw/day     | General population [Consumers]             | Systemic |
|                         | DNEL | Short term Oral          | 8 mg/kg<br>bw/day     | General population [Consumers]             | Systemic |
|                         | DNEL | Short term<br>Inhalation | 260 mg/m <sup>3</sup> | Workers                                    | Systemic |
|                         | DNEL | Short term<br>Inhalation | 260 mg/m <sup>3</sup> | Workers                                    | Local    |
|                         | DNEL | Long term<br>Inhalation  | 260 mg/m <sup>3</sup> | Workers                                    | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 260 mg/m <sup>3</sup> | Workers                                    | Local    |
|                         | DNEL | Short term<br>Inhalation | 50 mg/m³              | General population [Consumers]             | Systemic |
|                         | DNEL | Short term               | 50 mg/m³              | General                                    | Local    |

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version: 3 6/15

## **SECTION 8: Exposure controls/personal protection**

|      | Inhalation        |                      | population  |          |
|------|-------------------|----------------------|-------------|----------|
|      |                   |                      | [Consumers] |          |
| DNEL | Long term         | 50 mg/m³             | General     | Local    |
|      | Inhalation        |                      | population  |          |
|      |                   |                      | [Consumers] |          |
| DNEL | Long term         | 50 mg/m <sup>3</sup> | General     | Systemic |
|      | Inhalation        |                      | population  |          |
|      |                   |                      | [Consumers] |          |
| DNEL | Short term Oral   | 4 mg/kg              | General     | Systemic |
|      |                   | bw/day               | population  |          |
| DNEL | Long term Oral    | 4 mg/kg              | General     | Systemic |
|      |                   | bw/day               | population  |          |
| DNEL | Short term Dermal | 4 mg/kg              | General     | Systemic |
|      |                   | bw/day               | population  |          |
| DNEL | Long term Dermal  | 4 mg/kg              | General     | Systemic |
|      |                   | bw/day               | population  |          |
| DNEL | Short term Dermal | 20 mg/kg             | Workers     | Systemic |
|      |                   | bw/day               |             |          |
| DNEL | Long term Dermal  | 20 mg/kg             | Workers     | Systemic |
|      |                   | bw/day               |             |          |
| DNEL | Short term        | 26 mg/m <sup>3</sup> | General     | Local    |
|      | Inhalation        |                      | population  |          |
| DNEL | Long term         | 26 mg/m³             | General     | Local    |
|      | Inhalation        |                      | population  |          |
| DNEL | Short term        | 26 mg/m³             | General     | Systemic |
|      | Inhalation        |                      | population  |          |
| DNEL | Long term         | 26 mg/m <sup>3</sup> | General     | Systemic |
|      | Inhalation        |                      | population  |          |
| DNEL | Short term        | 130 mg/m³            | Workers     | Local    |
|      | Inhalation        |                      |             |          |
| DNEL | Long term         | 130 mg/m³            | Workers     | Local    |
|      | Inhalation        |                      |             |          |
| DNEL | Short term        | 130 mg/m³            | Workers     | Systemic |
|      | Inhalation        |                      |             |          |
| DNEL | Long term         | 130 mg/m³            | Workers     | Systemic |
|      | Inhalation        |                      |             |          |

### **PNECs**

| Product/ingredient name | Compartment Detail   | Value       | Method Detail |
|-------------------------|----------------------|-------------|---------------|
| methanol                | Soil                 | 23.5 mg/kg  | -             |
|                         | Marine water         | 15.4 mg/l   | -             |
|                         | Fresh water          | 154 mg/l    | -             |
|                         | Fresh water sediment | 570.4 mg/kg | -             |
|                         | Sewage Treatment     | 100 mg/kg   | -             |
|                         | Plant                |             |               |

### 8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version : 3 7/15

## **SECTION 8: Exposure controls/personal protection**

### **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: safety glasses with side-shields.

### **Skin protection**

### **Hand protection**

Ehemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Recommended Hand Protection (Gloves breakthrough time): butyl rubber, 0.3 mm, 480 min

Recommended Hand Protection (Gloves breakthrough time) In splash contact: nitrile rubber, 0.4 mm, 31 min.

### **Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### **Respiratory protection**

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## **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**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

### **Appearance**

Physical state : Liquid. [Clear.]

Colour : Colourless. to Yellow.

Odour : Pungent.
Odour threshold : Not available.
Melting point/freezing point : Not available.
Initial boiling point and : Not available.

boiling range

Flammability (solid, gas) : Not available.

Lower and upper explosion : Not available.

limit

Flash point :

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version : 3 8/15

True-Phos Perm Buffer

## **SECTION 9: Physical and chemical properties**

|                 | Closed cup |      |             |    | Open o | cup    |
|-----------------|------------|------|-------------|----|--------|--------|
| Ingredient name | °C         | °F   | Method      | °C | °F     | Method |
| methanol        | 9.7        | 49.5 | Abel-Pensky |    |        |        |

**Auto-ignition temperature** 

°F Ingredient name °C Method methanol 455 851 DIN 51794

**Decomposition temperature** 

: Not available.

pH

7.2

÷

**Viscosity** 

Not available.

Solubility(ies)

Media **Result** cold water Partially soluble hot water Partially soluble

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

|                 | Vapou  | r Pressu | re at 20°C | Vapour pressure at 50°C |     |        |
|-----------------|--------|----------|------------|-------------------------|-----|--------|
| Ingredient name | mm Hg  | kPa      | Method     | mm<br>Hg                | kPa | Method |
| methanol        | 126.96 | 16.9     |            |                         |     |        |

**Evaporation rate** Not available. Relative density : Not available. Vapour density : Not available. **Explosive properties** Not available. **Oxidising properties** : Not classified.

**Particle characteristics** 

Median particle size : Not applicable.

9.2 Other information

Physical/chemical properties

comments

: No additional information.

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

10.4 Conditions to avoid

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

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version: 3 9/15

True-Phos Perm Buffer

## **SECTION 10: Stability and reactivity**

10.5 Incompatible materials

: Reactive or incompatible with the following materials:

oxidising materials

Reactive or incompatible with the following materials: oxidising materials, reducing

materials, acids and alkalis.

Acid Chlorides and Acid anhydride.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

| Product/ingredient name | Result   | Species                     | Dose   | Exposure                |
|-------------------------|--|-----------------------------|--|-------------------------|
| methanol                | LC50 Inhalation Vapour<br>LC50 Inhalation Vapour<br>LD50 Dermal<br>LD50 Oral | Rat<br>Rat<br>Rabbit<br>Rat | 145000 ppm<br>64000 ppm<br>15800 mg/kg<br>5600 mg/kg | 1 hours<br>4 hours<br>- |

Conclusion/Summary

: Not available.

### **Acute toxicity estimates**

| Product/ingredient name        | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) |            |
|--------------------------------|------------------|-------------------|--------------------------------|-----------------------------------|------------|
| True-Phos Perm Buffer methanol | 111.1<br>100     | 333.3<br>300      | N/A<br>N/A                     | 3.3                               | N/A<br>N/A |

### **Irritation/Corrosion**

**Conclusion/Summary**: Not available.

**Sensitisation** 

**Conclusion/Summary**: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

Conclusion/Summary : Not available.

**Reproductive toxicity** 

Conclusion/Summary : Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

|          | Product/ingredient name | Category   | Route of exposure | Target organs                            |
|----------|-------------------------|------------|-------------------|--|
| methanol |                         | Category 1 |                   | central nervous<br>system (CNS),<br>eyes |

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Not available.

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version : 3 10/15

True-Phos Perm Buffer

## SECTION 11: Toxicological information

Information on likely routes : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

of exposure

Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

Inhalation : Foxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Skin contact : Foxic in contact with skin. Causes damage to organs following a single exposure in

contact with skin.

Ingestion : Toxic if swallowed. Causes damage to organs following a single exposure if

swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate :

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General
 Carcinogenicity
 Mo known significant effects or critical hazards.
 Mutagenicity
 Mo known significant effects or critical hazards.
 Reproductive toxicity
 Mo known significant effects or critical hazards.
 Wo known significant effects or critical hazards.

Other information : Not available.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

| Product/ingredient name | Result          | Species | Exposure |
|-------------------------|-----------------|---------|----------|
| methanol                | LC50 15400 mg/l | Fish    | 96 hours |

**Conclusion/Summary**: Not available.

### 12.2 Persistence and degradability

Conclusion/Summary : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| methanol                | -                 | -          | Readily          |

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version : 3 11/15

True-Phos Perm Buffer

## **SECTION 12: Ecological information**

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| methanol                | -0.77  | 1   | Low       |

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

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

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

**Packaging** 

**Methods of disposal** 

: The classification of the product may meet the criteria for a hazardous waste.

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

**Special precautions** 

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

|                                    | ADR/RID           | ADN               | IMDG              | IATA              |
|------------------------------------|-------------------|-------------------|-------------------|-------------------|
| 14.1 UN number                     | UN1230            | UN1230            | UN1230            | UN1230            |
| 14.2 UN proper shipping name       | METHANOL solution | METHANOL solution | METHANOL solution | Methanol solution |
| 14.3 Transport<br>hazard class(es) | 3 (6.1)           | 3 (6.1)           | 3 (6.1)           | 3 (6.1)           |
|                                    |                   |                   |                   |                   |

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version : 3 12/15

True-Phos Perm Buffer

## SECTION 14: Transport information

| 14.4 Packing group               | II  | II  | II  | II  |
|----------------------------------|-----|-----|-----|-----|
| 14.5<br>Environmental<br>hazards | No. | No. | No. | No. |

### **Additional information**

ADR/RID : Hazard identification number 336

> **Limited quantity** 1 L **Special provisions** 279 Tunnel code (D/E)

**ADN** : Special provisions 279, 802 **IMDG** Emergency schedules F-E, S-D

Special provisions 279

**IATA Quantity limitation** Passenger and Cargo Aircraft: 1 L. Packaging instructions: 352.

Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities -

Passenger Aircraft: 1 L. Packaging instructions: Y341.

**Special provisions** A113

user

14.6 Special precautions for : 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 Transport in bulk according to IMO instruments

: Not available.

## **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **UK (GB)/REACH**

### **Annex XIV - List of substances subject to authorisation**

### **Annex XIV**

None of the components are listed.

### Substances of very high concern

None of the components are listed.

### Ozone depleting substances

Not listed.

### **Prior Informed Consent (PIC)**

Not listed.

### **Persistent Organic Pollutants**

Not listed.

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

| Product/ingredient name | %   | Designation [Usage] |
|-------------------------|-----|---------------------|
| Frue-Phos Perm Buffer   | ≥90 | 3                   |
| methanol                | ≥90 | 69                  |

: Not applicable. Labelling

**Seveso Directive** 

| Date of issue/Date of revision : 09/11/20 | Date of previous issue | : 21/06/2022 | Version : 3 | 13/15 |
|---|------------------------|--------------|-------------|-------|
|---|------------------------|--------------|-------------|-------|

True-Phos Perm Buffer

## SECTION 15: Regulatory information

This product is controlled under the Seveso Directive.

### **Danger criteria**

Category

**H**2

H3 P5c

### **EU regulations**

Industrial emissions

: Not listed

(integrated pollution prevention and control) -

**Air** 

**Industrial emissions** 

: Not listed

(integrated pollution prevention and control) -

Water

### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

## 15.2 Chemical safety

assessment

This product contains substances for which Chemical Safety Assessments are still

required.

### SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version : 3 14/15

True-Phos Perm Buffer

### **SECTION 16: Other information**

| Classification     | Justification      |
|--------------------|--------------------|
| Flam. Liq. 2, H225 | Expert judgment    |
| Acute Tox. 3, H301 | Calculation method |
| Acute Tox. 3, H311 | Calculation method |
| Acute Tox. 3, H331 | Calculation method |
| STOT SE 1, H370    | Calculation method |

### **Full text of abbreviated H statements**

| <b>⊬</b> 225 | Highly flammable liquid and vapour. |
|--------------|-------------------------------------|
| H301         | Toxic if swallowed.                 |
| H311         | Toxic in contact with skin.         |
| H331         | Toxic if inhaled.                   |
| H370         | Causes damage to organs.            |

### **Full text of classifications**

| Cute Tox. 3  | ACUTE TOXICITY - Category 3                                   |
|--------------|---|
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2                                |
| STOT SE 1    | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 |

Date of issue/ Date of

revision

: 09/11/2023

Date of previous issue : 21/06/2022

Version : 3

### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision : 09/11/2023 Date of previous issue : 21/06/2022 Version : 3 15/15