

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE PREPERATION AND COMPANY:

Product Name: T-Wash

Recommended Use: On galvanised surfaces to achieve proper adhesion of subsequent coatings.  
Refer to Product Data Sheet.

Manufacturer: Berger Paints (Malta) Ltd,  
HF 66, Industrial Estate, BBG 3000, Malta.

Emergency Telephone: +356 2165 2996  
Fax: +356 2165 9409

E-mail address: [info@berger.com.mt](mailto:info@berger.com.mt)

### 2. HAZARDS IDENTIFICATION:

2.1. Classification of the substance or mixture  
Product definition: Mixture

Classification of the substance or mixture

Not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

45 percent of the mixture consists of component(s) of unknown oral toxicity  
45 percent of the mixture consists of component(s) of unknown dermal toxicity  
45 percent of the mixture consists of component(s) of unknown inhalation toxicity  
Contains 45 % of components with unknown hazards to the aquatic environment.

#### 2.2. Label elements

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.

#### Precautionary statements

**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.

**Other hazards**  
**which do not result in classification** : None Known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS:

3.2 **Substance/Mixtures** : Mixture

There are no ingredients present which, according to Regulation (EC) 1272/2008 as amended and in the concentrations applicable, are classified as hazardous to health or the environment, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### 4. **FIRST-AID MEASURES:**

##### **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. Get medical attention if irritation occurs.

**INHALATION:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**SKIN CONTACT:** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**INGESTION:** Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

###### **Potential acute health effects**

Eye Contact :No known significant effects or critical hazards.

Inhalation :No known significant effects or critical hazards.

Skin contact :No known significant effects or critical hazards.

Ingestion :No known significant effects or critical hazards.

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

Eye Contact :No specific data.

Inhalation :No specific data.

Skin contact :No specific data.

Ingestion :No specific data.

##### **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.

Protection of first-aiders :No action shall be taken involving any personal risk or without suitable training.

#### 5. **FIRE-FIGHTING MEASURES:**

##### **Extinguishing media**

**Suitable extinguishing Media** :Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing Media** :None Known

## Special hazards arising from the substance or mixture

**Hazards from the substance Or mixture** :In a fire or if heated, a pressure will occur and the container may burst.

**Hazardous combustion Products** :No specific data.

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.

**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. 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.

## 6. ACCIDENTAL RELEASE MEASURES:

### 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 spilled material. Put on appropriate protective equipment.

**For emergency responders** :If specialized 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".

**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 (sewer, waterways, soil or air.)

### Methods and materials for containment and cleaning up

**Small Spill** :Stop leak if without risk. Move containers from spill area. 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 container. Dispose of via a licensed waste disposal contractor.

**Large Spill** :Stop leak if without risk. Move containers from spill area. Prevent entry in 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. Dispose of via a licensed waste disposal contractor.

**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.

## 7. HANDLING/STORAGE:

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

**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.

**Conditions for safe storage, including any incompatibilities**

: Store in accordance with local regulations. 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. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**8. EXPOSURE CONTROL/PERSONAL PROTECTION:**

**Control parameters**

**Occupational exposure limits**

Product/ingredient name	Exposure limit values
No EU exposure limit value known	
No USA exposure limit value known	

**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.

**Exposure controls**

**Appropriate engineering controls**

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**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.

**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** : Chemical-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.
- 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.
- 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 .

## **9. PHYSICAL AND CHEMICAL PROPERTIES:**

- Physical state** :Liquid.
- Color** :Blue.
- Odor** :Not available.
- Odor threshold** :Not available.
- pH** :Not available.
- Melting point/freezing point** :Not available.
- Initial boiling point and boiling Range** :Not available.
- Flash point** :Not available.
- Evaporation rate** :Not available.
- Flammability(solid,gas)** :Not available.
- Upper/Lower Flammability or Explosive limits** :Not available.
- Vapor Pressure** :Not available.
- Vapor density** :Not available.
- Relative density** :1.00 +/- 0.02 Kgs/L
- Solubility(ies)** :Not available.
- Partition coefficient: n-octanol/ Water** :Not available.

<b>Auto-ignition temperature</b>	:Not available.
<b>Decomposition temperature</b>	:Not available.
<b>Viscosity</b>	:Not available.
<b>Explosive properties</b>	:Not available.
<b>Oxidizing properties</b>	:Not available.
<b>Other information</b>	
<b>Solubility in water</b>	:Not Available.

#### 10. **STABILITY AND REACTIVITY:**

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	:The product is stable.
<b>Possibility of hazardous Reaction</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	:No specific data.
<b>Incompatible materials</b>	:No specific data.
<b>Hazardous decomposition products</b>	:Under normal conditions of storage and use, hazardous decomposition products should not be produced

#### 11. **TOXICOLOGICAL INFORMATION:**

##### **Information on toxicological effects**

**Acute toxicity**  
**Conclusion/Summary** : Not available.

**Acute toxicity estimates**  
 Not available

**Irritation/Corrosion**  
**Conclusion/Summary** : Not available.

**Sensitization**  
**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)**  
 Not available.

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

Not available.

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure** : Not available.

**Potential acute health effects**

**Inhalation** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

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

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

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

**Inhalation** : No specific data.

**Ingestion** : No specific data.

**Skin contact** : No specific data.

**Eye contact** : No specific data.

**Delayed and immediate effects and also chronic effects from short and long term exposures**

**Short Term exposure**

Potential immediate effects : Not available

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** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

**Other information** : Not available.

**12. ECOLOGICAL INFORMATION:**

**Toxicity**

**Conclusion/Summary** : Not available.

**Persistence and degradability**

**Conclusion/Summary** : Not available.

**Bioaccumulative potential**

Not available

**Mobility in soil**

**Soil/water partition coefficient (KOC)** : Not available

**Mobility** : Not available.

**13. DISPOSAL CONSIDERATIONS:**

**Methods of disposal**

: The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**14. TRANSPORT INFORMATION:**

	<b>ADR/RID</b>	<b>UN</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number</b>	Not available.	Not available.	Not available.	Not available.
<b>UN proper Shipping name</b>	Not available.	Not available.	Not available.	Not available.
<b>Transport hazard class(es)</b>	Not available.	Not available.	Not available.	Not available.
<b>Packing group</b>	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.

**Additional Information**

**Special precautions for users**

**: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.

**15. REGULATORY INFORMATION:**

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol (Annexes A, B, C, E)**

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.

## 16. OTHER INFORMATION:

### National Fire Protection Association (U.S.A.)

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Indicates information that has changed from previously issued version.

#### **Abbreviations and acronyms**

:ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
UN = United Nations

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

<b>Classification</b>	<b>Justification</b>
Not classified.	

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**Date of previous issue** : No previous validation  
**Version** :1

#### **Notice to reader**

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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.