

# SAFETY DATA SHEET

Revision: 3.0 Date: 24<sup>th</sup> May 2019


ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**  
Product Name M-Prep Conditioner A
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Identified Use(s) PC14 Metal surface treatment products, including galvanic and electroplating products  
Uses Advised Against Anything other than the above.
- 1.3 Details of the supplier of the safety data sheet**  
Company Identification VISHAY MEASUREMENTS GROUP UK LTD  
Stroudley Road  
Basingstoke  
Hampshire  
RG24 8FW  
United Kingdom  
Telephone +44 (0) 1256 462131  
Fax +44 (0) 1256 471441  
E-Mail (competent person) mm.uk@vishaypg.com
- 1.4 Emergency telephone number**  
Emergency Phone No. (00-1) 703-527-3887 CHEMTREC (24 hours)  
Languages spoken All official European languages.

## SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.1 Regulation (EC) No. 1272/2008 (CLP)** Met. Corr. 1; H290
- 2.2 Label elements**  
Product Name M-Prep Conditioner A  
Contains: Not applicable  
Hazard Pictogram(s)  

- Signal Word(s) Warning
- Hazard Statement(s) H290: May be corrosive to metals.
- Precautionary Statement(s) P234: Keep only in original container.  
P390: Absorb spillage to prevent material damage.
- 2.3 Other hazards** None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances** Not applicable
- 3.2 Mixtures** Substances in preparations / mixtures

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EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Phosphoric Acid	<6	7664-38-2	231-633-2	Not yet assigned in the supply chain	Met Corr. 1; H290 Skin Corr. 1B; H314 <b>Specific Concentration Limit</b> Eye Irrit. 2; H319: 10 % ≤ C < 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Skin Corr. 1B; H314: C ≥ 25 %

For full text of H/P Statements see section 16.

## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Self-protection of the first aider

Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Avoid breathing mist/vapours/spray. Avoid contact with skin and eyes. Contaminated clothing should be laundered before reuse.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact

IF ON SKIN (or hair): Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention.

Eye Contact

IF IN EYES: Flush eyes with water for at least 15 minutes while holding eyelids open. If eye irritation persists, get medical advice/attention.

Ingestion

IF SWALLOWED: Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Do not induce vomiting. If symptoms develop, obtain medical attention. Call a POISON CENTER/doctor if you feel unwell.

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

May cause irritation to eyes, skin and air passages.

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

Unlikely to be required but if necessary treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing media  
Unsuitable extinguishing media

Extinguish with carbon dioxide, dry chemical, foam or waterspray.  
Do not use water jet. Direct water jet may spread the fire.

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

Not flammable. Reacts with metals liberating hydrogen. Reaction products may include hydrogen cyanide. May decompose in a fire giving off toxic fumes.: Carbon monoxide, Carbon dioxide, Hydrogen Gas. May react with some metals including aluminum, magnesium, and zinc, resulting in evolution of phosphorus oxides.

### 5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Stop leak if safe to do so. Use personal protective equipment as required. See Section: 8. Avoid breathing mist/vapours/spray. Avoid contact with skin and eyes. Stay upwind/keep distance from source.

### 6.2 Environmental precautions

Avoid release to the environment. Do not release undiluted and unneutralised to the sewer. Spillages or uncontrolled discharges into watercourses must be

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- 6.3 Methods and material for containment and cleaning up**  
alerted to the Environment Agency or other appropriate regulatory body. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Cautiously neutralize remainder. Then wash away with plenty of water. Neutralise with Calcium carbonate./ sodium carbonate / sodium bicarbonate Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste.
- 6.4 Reference to other sections**  
See Section: 8, 13

## SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling**  
Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. Avoid breathing mist/vapours/spray. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Storage temperature  
Storage life  
Ambient temperatures. <27°C  
Stable under normal conditions.  
Suitable containers: Stainless steel, High density polyethylene, Glass
- 7.3 Specific end use(s)**  
Incompatible materials  
Alkaline materials and materials containing chlorine.  
See Section: 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**  
**8.1.1 Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Phosphoric Acid	7664-38-2	-	1	-	2	WEL, IOELV

Source: WEL: Workplace Exposure Limit (UK HSE EH40), IOELV: Indicative Occupational Exposure Limit Value

- 8.1.2 Biological limit value**  
Not established.
- 8.1.3 PNECs and DNELs**  
Not established.
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls**  
Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit.
- 8.2.2 Individual protection measures, such as personal protective equipment (PPE)**  
Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. General hygiene measures for the handling of chemicals are applicable. Keep good industrial hygiene. Avoid contact with skin and eyes. Avoid breathing mist/vapours/spray. Wash hands before breaks and after work. Keep work clothes separately. Do not eat, drink or smoke at the work place.

Eye/ face protection



Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

Skin protection

**Hand protection:**

Wear impervious gloves (EN374). Protective index 6, corresponding &gt; 480 minutes of permeation time according to EN 374 Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Neoprene or rubber

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gloves are recommended.

#### Body protection:

Wear suitable coveralls to prevent exposure to the skin.  
Recommended: Natural rubber

Respiratory protection



In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

Thermal hazards

Not applicable

#### 8.2.3 Environmental Exposure Controls

Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Clear liquid
Odour	Odourless.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	~100°C
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	~1 - 1.1 (H <sub>2</sub> O = 1)
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not oxidising.

### 9.2 Other information

None.

## SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	May react with some metals including aluminum, magnesium, and zinc, resulting in evolution of phosphorus oxides.
10.4 Conditions to avoid	Keep away from direct sunlight.
10.5 Incompatible materials	Alkaline materials and materials containing chlorine.
10.6 Hazardous decomposition product(s)	Combustion or thermal decomposition will evolve toxic and irritant vapours.: Oxides of phosphorus.

## SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	All test data taken from existing ECHA registrations for the substances mentioned.
Acute toxicity - Ingestion	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.
Acute toxicity - Inhalation	Based upon the available data, the classification criteria are not met.

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<b>Acute toxicity - Skin Contact</b>	Acute Toxicity Estimate Mixture Calculation: Estimated LC50 >20.0 mg/l. Based upon the available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day. Based upon the available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Based upon the available data, the classification criteria are not met.
Phosphoric Acid:	Based upon the available data, the classification criteria are not met.
<b>Respiratory or skin sensitization</b>	Test Result: Corrosive (1500.41 in the Federal Register Vol. 38, No. 187, S. 26019 from 1973-09-27)
<b>Germ cell mutagenicity</b>	Based upon the available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based upon the available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based upon the available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Based upon the available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based upon the available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based upon the available data, the classification criteria are not met.
11.2 <b>Other information</b>	None known.

## SECTION 12: ECOLOGICAL INFORMATION

12.1 <b>Toxicity</b>	Based upon the available data, the classification criteria are not met.
12.2 <b>Persistence and degradability</b>	Estimated Mixture LC50 >100 mg/l (Fish)
12.3 <b>Bioaccumulative potential</b>	Readily biodegradable.
12.4 <b>Mobility in soil</b>	The product has low potential for bioaccumulation.
12.5 <b>Results of PBT and vPvB assessment</b>	The product has high mobility in soil. Phosphoric Acid: Very soluble
12.6 <b>Other adverse effects</b>	Not classified as PBT or vPvB. None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

13.1 <b>Waste treatment methods</b>	Dispose of this material and its container as hazardous waste. Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation.
13.2 <b>Additional Information</b>	Dispose of contents in accordance with local, state or national legislation.

## SECTION 14: TRANSPORT INFORMATION

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA/ICAO</b>
14.1 <b>UN number</b>	UN 1760	UN 1760	UN 1760
14.2 <b>UN proper shipping name</b>	CORROSIVE LIQUID, N.O.S (Phosphoric Acid)	CORROSIVE LIQUID, N.O.S (Phosphoric Acid)	CORROSIVE LIQUID, N.O.S (Phosphoric Acid)
14.3 <b>Transport hazard class(es)</b>	8	8	8
14.4 <b>Packing group</b>	III		
14.5 <b>Environmental hazards</b>	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6 <b>Special precautions for user</b>	See Section: 2		
14.7 <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable		

## SECTION 15: REGULATORY INFORMATION

15.1 <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
15.1.1 <b>EU regulations</b>	
Authorisations and/or Restrictions On Use	Not restricted
15.1.2 <b>National regulations</b>	
Wassergefährdungsklasse (Germany)	Water hazard class: 1 (Self classification)
15.2 <b>Chemical Safety Assessment</b>	A chemical safety assessment is not required under REACH.

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## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: V3.0

Sections indicated with the following have been revised:

Date of Issue: 24<sup>th</sup> May 2019

Date of First Issue: 7<sup>th</sup> August 2012

### References:

Existing Safety Data Sheet (SDS), Harmonised Classification and Existing ECHA registration(s) for Phosphoric Acid (CAS No. 7664-38-2).

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Met. Corr. 1; H290	Expert judgement

### LEGEND

LTEL: Long Term Exposure Limit

DNEL: Derived No Effect Level

PBT: Persistent, Bioaccumulative and Toxic

STEL: Short Term Exposure Limit

PNEC: Predicted No Effect Concentration

vPvB: very Persistent and very Bioaccumulative

### Hazard classification / Classification code:

Met. Corr. 1; Metal Corrosive, Category 1

Skin Corr. 1B; Skin corrosion/irritation, Category 1B

Skin Irrit. 2; Skin corrosion/irritation, Category 2

Eye Irrit. 2; Serious eye damage/irritation, Category 2

### Hazard Statement(s)

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

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