

## M-Prep Conditioner A

www.vpgsensors.com

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AS AMENDED BY UK REACH REGULATIONS SI 2019/758

Date of issue: 11/04/2025 Version: 4.0

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

1.1 Product identifier

Product Name M-Prep Conditioner A
Unique Formula Identifier (UFI) 7QK0-P051-M00V-8Q6C

1.2 Relevant identified uses of the substance or mixture

and uses advised against

Identified Use(s) 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@vpgsensors.com

1.4 Emergency telephone number

National Poisons Information Service (United Kingdom) +44 (0) 3448 920111 24 hr. emergency phone number

Healthcare Professionals ONLY

 NHS 24
 111
 Members of Public

 Emergency Phone No.
 (00-1) 703-527-3887
 CHEMTREC (24 hours)

Emergency Phone No. (00-1) 703-527-3887
Languages spoken All official European languages.

#### **SECTION 2: HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture

2.1.1 The retained CLP Regulation (EU) No 1272/2008, as M

amended for Great Britain

Met. Corr. 1; H290

2.2 Label elements According to the retained CLP Regulation (EU) No 1272/2008, as amended for

Great Britain

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.

Supplemental information None Known

**2.3** Other hazards Not classified as PBT or vPvB. Does not cause endocrine disruption.

Document No. 14200

Page: 1 of 7



## **M-Prep Conditioner A**

www.vpgsensors.com

Date of issue: 11/04/2025

Version: 4.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AS AMENDED BY UK REACH REGULATIONS SI 2019/758

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substances - Not applicable.

#### 3.2 Mixtures

Classification: The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
*Phosphoric Acid	< 6	7664-38-2	231-633-2	Not yet assigned in the supply chain	Met Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318

#### Specific concentration limit (SCL) & M-factor

Chemical identity of the substance	CAS No.	EC No.	SCL	ATE	M-factor
*Phosphoric Acid	7664-38-2	231-633-2	Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	-	-

For full text of H phrases see section 16. \*Substance with a community workplace exposure limit.

#### **SECTION 4: FIRST AID MEASURES**



4.3

#### 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 vapours. Avoid contact with skin and eyes. Contaminated clothing

should be laundered before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call

a POISON CENTER/doctor if you feel unwell.

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

medical advice/attention.

IF IN EYES: Flush eyes with water for at least 15 minutes while holding eyelids

open. If eye irritation persists, get medical advice/attention.

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 Indication of any immediate medical attention and

Inhalation

Skin contact

Eye contact

Ingestion

and delayed

special treatment needed

Unlikely to be required but if necessary treat symptomatically.

May cause irritation to eyes, skin and air passages.

## SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Do not use water jet. Direct water jet may spread the fire.

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.

Document No. 14200

Page: 2 of 7



## M-Prep Conditioner A

www.vpgsensors.com

Date of issue: 11/04/2025

Version: 4.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AS AMENDED BY UK REACH REGULATIONS SI 2019/758

5.3 Advice for firefighters

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 alerted to the Environment Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning

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. See Section: 8, 13

6.4 Reference to other sections

### **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling

Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. Avoid breathing vapours. 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

Keep only in original container. Keep container tightly closed and in a well-

smoke when using this product.

7.2 Conditions for safe storage, including any

incompatibilities Storage temperature Storage life ventilated place. Keep away from direct sunlight. Ambient temperatures. <27°C Stable under normal conditions.

Incompatible materials

Suitable containers: Stainless steel, High density polyethylene, Glass

Alkaline materials and materials containing chlorine.

7.3 Specific end use(s)

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/m³)	STEL (ppm)	STEL (mg/m³)	Note
Phosphoric Acid	7664-38-2	-	1	•	2	UK WEL, IOELV

Source: UK 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

General hygiene measures for the handling of chemicals are applicable. Keep good industrial hygiene. Avoid contact with skin and eyes. Avoid breathing vapours. Wash hands before breaks and after work. Keep work clothes separately. Do not eat, drink or smoke at the work place.

Document No. 14200

Page: 3 of 7



## **M-Prep Conditioner A**

www.vpgsensors.com

Date of issue: 11/04/2025

Version: 4.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AS AMENDED BY UK REACH REGULATIONS SI 2019/758

Eye/ face protection



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

Skin protection



Wear impervious gloves (EN374). Protective index 6, corresponding > 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 gloves are recommended.

**Body protection:** 

Hand 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 Colourless- Liquid
Odour Odourless
Odour threshold Not applicable
pH No data available
Melting point/freezing point No data available
Initial boiling point and boiling range ~100℃

Flash point No data available
Evaporation rate No data available
Flammability (solid, gas) Not applicable
Upper/lower flammability or explosive limits No data available
Vapour pressure No data available
Vapour density No data available

Relative density  $\sim$ 1-1.1 (H<sub>2</sub>O = 1) (Mixture) Solubility(ies) No data available

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available

Not explosive

Not explosive

Oxidising properties

Not oxidising.

9.2 Other information None

#### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity
 10.2 Chemical stability
 Stable under normal conditions.
 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.

Document No. 14200



## M-Prep Conditioner A

www.vpgsensors.com

Date of issue: 11/04/2025

Version: 4.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AS AMENDED BY UK REACH REGULATIONS Sì 2019/758

Alkaline materials and materials containing chlorine. 10.5 Incompatible materials

Combustion or thermal decomposition will evolve toxic and irritant vapours.: 10.6 Hazardous decomposition products

Oxides of phosphorus.

#### SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

> **Acute toxicity - Ingestion** Mixture: Based upon the available data, the classification criteria are not met.

> > Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw

**Acute toxicity - Inhalation** Mixture: Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: LC50 > 20 mg/l (Vapour)

Acute toxicity - Skin contact Mixture: Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw

Skin corrosion/irritation Mixture: Based upon the available data, the classification criteria are not met. Serious eye damage/irritation Mixture: Based upon the available data, the classification criteria are not met. Respiratory or skin sensitisation Mixture: Based upon the available data, the classification criteria are not met. Germ cell mutagenicity Mixture: Based upon the available data, the classification criteria are not met. Carcinogenicity Mixture: Based upon the available data, the classification criteria are not met. Reproductive toxicity Mixture: Based upon the available data, the classification criteria are not met.

STOT - single exposure Mixture: Based upon the available data, the classification criteria are not met. STOT - repeated exposure Mixture: Based upon the available data, the classification criteria are not met.

Aspiration hazard Mixture: Based upon the available data, the classification criteria are not met.

11.2 Other information None

#### SECTION 12: ECOLOGICAL INFORMATION

Bioaccumulative potential

12.3

12.1 **Toxicity** Mixture: Based upon the available data, the classification criteria are not met.

Estimated LC50 (Mixture): >100 mg/l.

12.2 Persistence and degradability No data for the mixture as a whole.

Phosphoric Acid Testing can be waived because the substance is an inorganic compound

No data for the mixture as a whole.

Phosphoric Acid Testing can be waived because the substance is an inorganic compound 12.4 Mobility in soil

No data for the mixture as a whole.

Phosphoric Acid Testing can be waived because the substance is an inorganic compound 12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects None known

#### SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods This material and its container must be disposed of as hazardous waste. Dispose

of wastes in an approved waste disposal facility.

Waste classification according to Directive 2008/98/EC HP 8: Corrosive

(Waste Framework Directive):

13.2 Additional information Dispose of contents in accordance with local, state or national legislation.

#### SECTION 14: TRANSPORT INFORMATION

		ADR/RID	IMDG	IATA/ICAO
14.1	UN number	UN 1760	UN 1760	UN 1760

14.2 **UN proper shipping name** CORROSIVE LIQUID, CORROSIVE LIQUID, CORROSIVE LIQUID, N.O.S (Phosphoric Acid) N.O.S (Phosphoric Acid) N.O.S (Phosphoric Acid)

14.3 Transport hazard class(es) 8 8 14.4 Packing group Ш Ш

14.5 **Environmental hazards** Not classified Not classified as a Not classified

Marine Pollutant.

14.6 Special precautions for user See Section: 2

14.7 Transport in bulk according to Annex II of Marpol Not applicable and the IBC Code

Document No. 14200

Page: 5 of 7



## **M-Prep Conditioner A**

www.vpgsensors.com

Date of issue: 11/04/2025

Version: 4.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AS AMENDED BY UK REACH REGULATIONS SI 2019/758

**SECTION 15: REGULATORY INFORMATION** 

15.1 Safety, health and environmental

regulations/legislation specific for the substance or

mixture

15.1.1 EU regulations

Authorisations and/or restrictions on use Not restricted for the intended use(s) of the product.

**GB** regulations

Authorisations and/or restrictions on use Not restricted for the intended use(s) of the product.

15.1.2 National regulations

Germany

Water hazard class (WGK) WGK 1 (Self classification)

15.2 Chemical Safety Assessment A REACH chemical safety assessment has not been carried out.

### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: V1.0 - Not applicable

#### References:

Existing Safety Data Sheet (SDS),

GB Mandatory classification and labelling list and Existing ECHA registration(s) for Phosphoric Acid (CAS No.7664-38-2).

Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830. Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Classification of the substance or mixture.	Classification procedure
The retained CLP Regulation (EU) No 1272/2008, as	
amended for Great Britain	
Met. Corr. 1; H290	Expert judgement

Legend

ADR ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

BCF Bioconcentration factor

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

DNEL Derived no effect level

EC50 Half maximal effective concentration

HSE Health and Safety Executive

IATA IATA: International Air Transport Association
ICAO ICAO: International Civil Aviation Organization
IMDG IMDG: International Maritime Dangerous Goods

LC50 Lethal concentration at which 50% of the population is killed

LD50 Lethal dose at which 50% of the population is killed

LTEL Long term exposure limit
OEL Occupational exposure limits

PBT PBT: Persistent, Bioaccumulative and Toxic

PNEC Predicted No Effect Concentration
(Q)SAR Quantitative structure-activity relationship

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Regulations concerning the international railway transport of dangerous goods

TWA Time Weighted Average STEL Short term exposure limit

vPvB vPvB: very Persistent and very Bioaccumulative

WGK Wassergefährdungsklasse (Germany) / Water hazard class

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.

Document No. 14200

Page: 6 of 7



## **M-Prep Conditioner A**

www.vpgsensors.com

Date of issue: 11/04/2025

Version: 4.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AS AMENDED BY UK REACH REGULATIONS SI 2019/758

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

#### **Disclaimers**

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. VISHAY MEASUREMENTS GROUP UK LTD gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. VISHAY MEASUREMENTS GROUP UK LTD accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

Document No. 14200

Page: 7 of 7



## **Legal Disclaimer Notice**

Vishay Precision Group, Inc.

## **Disclaimer**

ALL PRODUCTS. PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.

Document No.: 63999 Revision: 15-Jul-2014