

SAFETY DATA SHEET

Revision: 1.0 Date: 07.03.2013

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 453/2010



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M-Prep Conditioner A

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

- 1.1 Product identifier**
Product Name M-Prep Conditioner A
Chemical Name Mixture
CAS No. Mixture
EINECS No. Mixture
REACH Registration No. None assigned.
- 1.2 Recommended use of the chemical and restrictions on use**
Identified Use(s) PC14 Metal surface treatment products, including galvanic and electroplating products
Uses Advised Against None known.
- 1.3 Supplier's details**
Company Identification VISHAY MEASUREMENTS GROUP, INC.
Post Office Box 27777
Raleigh, NC 27611
United States of America
Telephone 1-919-365-3800
E-Mail (competent person) mm.us@vishaypg.com
- 1.4 Emergency Phone No.**
1-800-424-9300 (US)
1-703-527-3887 (Outside US)
CHEMTREC

2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.2 Directive 67/548/EEC & Directive 1999/45/EC** Not classified as dangerous for supply/use.
- 2.2 Label elements**
Product Name According to Directive 67/548/EEC & Directive 1999/45/EC
M-Prep Conditioner A
Hazard Symbol None assigned.
Risk Phrases None assigned.
Safety Phrases S49: Keep only in the original container.
- 2.3 Other hazards** None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Substances in preparations / mixtures

3.2 Mixtures

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

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard Statement(s)
Phosphoric Acid	<6	7664-38-2	231-633-2	Skin Corr. 1B; H314
Distilled Water	>94	7732-18-5	231-791-2	Not classified

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Directive 67/548/EEC & Directive 1999/45/EC

Chemical identity of the substance	%W/W	CAS No.	EC No.	EC Classification and Risk Phrases
Phosphoric Acid	<6	7664-38-2	231-633-2	C, R34: Causes burns.
Distilled Water	>94	7732-18-5	231-791-2	Not classified

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact

Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention.

Eye Contact

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

Ingestion

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.

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.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

As appropriate for surrounding fire.

Unsuitable extinguishing Media

None known.

5.2 Special hazards arising from the substance or mixture

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.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Shut off leaks if without risk. Ensure adequate ventilation. Wear protective gloves/protective clothing/eye protection/face protection.

6.2 Environmental precautions

Do not release undiluted and unneutralised to the sewer.

6.3 Methods and material for containment and cleaning up

Absorb spillage to prevent material damage. Cover spills with inert absorbent material. Transfer to a container for disposal. Cautiously neutralize remainder. Then wash away with plenty of water.

6.4 Reference to other sections

See Section: 8, 13

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing vapours. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

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

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Storage temperature
Storage life
Incompatible materials

<27°C
Stable under normal conditions.
May react with some metals including aluminum, magnesium, and zinc, resulting in evolution of phosphorus oxides.
PC14 Metal surface treatment products, including galvanic and electroplating products

7.3 Specific end use(s)

8. 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 ³)	STEL (ppm)	STEL (mg/m ³)	Note:
Orthophosphoric acid	7664-38-2	-	1	-	2	WEL

Note: WEL: Workplace Exposure Limit (UK HSE EH40)

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

Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded.

8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Have available eyewash bottle with clean water.

Eye/face protection

Wear eye protection with side protection (EN166).



Skin protection

Wear impervious gloves (EN374). Wear chemical resistant apron.



Respiratory protection

Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment.



Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear
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.

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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 ₂ O = 1) (Mixture)
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.

10. 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	None known.
10.5 Incompatible materials	Alkaline materials and materials containing chlorine.
10.6 Hazardous decomposition product(s)	Oxides of phosphorus. Combustion or thermal decomposition will evolve toxic and irritant vapours.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures)	
Acute toxicity	
Ingestion	Not classified.
Inhalation	Not classified.
Skin Contact	Not classified.
Eye Contact	Not classified.
Irritation	Not classified.
Corrosivity	Not classified.
Sensitisation	Not classified.
Repeated dose toxicity	Not classified.
Carcinogenicity	No evidence of carcinogenicity.
Mutagenicity	There is no evidence of mutagenic potential.
Toxicity for reproduction	No data.
11.2 Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Not classified as a Marine Pollutant.
12.2 Persistence and degradability	Readily biodegradable.
12.3 Bioaccumulative potential	The product has low potential for bioaccumulation.
12.4 Mobility in soil	Insoluble in water. The product is predicted to have low mobility in soil.
12.5 Results of PBT and VPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	None known.

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13. SECTION 13: DISPOSAL CONSIDERATIONS

- | | | |
|------|-------------------------|---|
| 13.1 | Waste treatment methods | Disposal should be in accordance with local, state or national legislation. |
| 13.2 | Additional Information | None. |

14. SECTION 14: TRANSPORT INFORMATION

- | | ADR/RID / IMDG / IATA | |
|------|---|---|
| 14.1 | UN number | None assigned. |
| 14.2 | Proper Shipping Name | Not classified as dangerous for transport. |
| 14.3 | Transport hazard class(es) | None assigned. |
| 14.4 | Packing group | None assigned. |
| 14.5 | Environmental hazards | Not classified as a Marine Pollutant. / Environmentally hazardous substance |
| 14.6 | Special precautions for user | None assigned. |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | None assigned. |
| 14.8 | Additional Information | None. |

15. 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 | None. |
| 15.1.2 | National regulations | None known. |
| 15.2 | Chemical Safety Assessment | Not available. |

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

References: Existing Safety Data Sheet (SDS) and Existing ECHA registration(s) for Phosphoric Acid (CAS# 7664-38-2).

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic
OECD	Organisation for Economic Cooperation and Development

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.

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Annex to the extended Safety Data Sheet (eSDS)

No information available.