

SAFETY DATA SHEET

Revision: 1.2 Date: 07.01.2016

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

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M-Prep Conditioner A – Metal Cleaner

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

1.1 Product identifier

Product Name	M-Prep Conditioner A – Metal Cleaner
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 USA
Telephone	919-365-3800
Fax	919-365-3945
E-Mail (competent person)	mm.us@vishaypg.com

1.4 Emergency Phone No.

1-800-424-9300 (U.S.)
703-527-3887 (Outside U.S.)
CHEMTREC

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 GHS Classification

Met. Corr. 1; May be corrosive to metals.

2.2 Label elements

According to GHS Classification

Product Name

M-Prep Conditioner A

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.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Substances in preparations / mixtures

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3.2 Mixtures

GHS Classification

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

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,

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- 7.2 Conditions for safe storage, including any incompatibilities**
Storage temperature
Storage life
Incompatible materials
- eyes or clothing. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Keep only in original container. Keep container tightly closed and in a well-ventilated place.
<27°C
Stable under normal conditions.
May react with some metals including aluminum, magnesium, and zinc, resulting in evolution of phosphorus oxides.
- 7.3 Specific end use(s)**
PC14 Metal surface treatment products, including galvanic and electroplating products

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	-	3	NIOSH
		-	1			OSHA

Note: NIOSH: National Institute for Occupational Safety and Health. OSHA: Occupational Safety and Health Administration.

- 8.1.2 Biological limit value**
8.1.3 PNECs and DNELs
- Not established.
Not established.
- 8.2 Exposure controls**
8.2.1 Appropriate engineering controls
8.2.2 Individual protection measures, such as personal protective equipment (PPE)
- Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded.
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

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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 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	NTP: Not Listed IARC Monographs: Not Listed OSHA Regulated: Not Listed

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.

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12.6 Other adverse effects None known.

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	UN 1760
14.2 Proper Shipping Name	CORROSIVE LIQUID, N.O.S (Phosphoric Acid)
14.3 Transport hazard class(es)	8
14.4 Packing group	III
14.5 Environmental hazards	Not classified as a Marine Pollutant.
14.6 Special precautions for user	Not classified
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	None.
14.8 Additional Information	None.

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Not available.
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).

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Met. Corr. 1; H290	Self classification: Threshold Calculation

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
NTP National Toxicology Program
IARC International Agency for Research on Cancer
NIOSH National Institute for Occupational Safety and Health
OSHA Occupational Safety and Health Standards

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.