Safety Data Sheet

M-Prep Neutraliser 5A



ACCORDING TO OSHA HCS (29 CFR 1910.1200)

www.vpgsensors.com

Date of issue: 24/05/2024 Date of First Issue: 16/07/2012

Version 3.0

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

Product identifier

Product name M-Prep Neutraliser 5A

Other means of identification Not applicable

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.

Details of the supplier of the safety data sheet VISHAY MEASUREMENTS GROUP, INC.

Post Office Box 27777 Raleigh, NC 27611

USA

 Supplier
 919-365-3800

 Telephone
 919-365-3945

E-mail (competent person) mm.us@vpgsensors.com

Emergency telephone number

Emergency Phone No. +1 800-262-8200 (for spills and CHEMTREC (24 hours)

releases)

Languages spoken English

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200

Physical hazards

Not classified as hazardous for supply/use.

Health hazards

Not classified as hazardous for supply/use.

Environmental hazards

Not classified as hazardous for supply/use.

Not classified as hazardous for supply/use.

Label elements

Hazard Pictogram(s)

Signal Word(s)

Hazard Statement(s)

Precautionary Statement(s)

None assigned

None assigned

None assigned

Other hazards None Known

Percent of the mixture consists of ingredient(s) of

unknown acute toxicity: 0% of the mixture

0% of the mixture consists of ingredients of unknown acute inhalated toxicity.
0% of the mixture consists of ingredients of unknown acute oral toxicity.
0% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

Mixtures Substances in preparations / mixtures.

No component of this mixture is included above the relevant concentration levels detailed within OSHA HCS (29 CFR 1910.1200)

SECTION 4: FIRST AID MEASURES



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.

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing. If irritation develops and persists, get medical attention. Remove clothing and wash thoroughly before use. Wash affected skin with soap

and water. If skin irritation or rash occurs: Get medical advice/attention. Eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily

possible), then take to a doctor.

Rinse mouth. Give plenty of water to drink. Get medical attention. Ingestion

None Known.

Most important symptoms and effects, both acute

and delayed

Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

Special hazards arising from the substance or

mixture

Skin contact

Advice for firefighters

As appropriate for surrounding fire. Extinguish preferably with foam, carbon dioxide or dry chemical.

Direct water jet may spread the fire.

Product is not classified as flammable, but will burn on contact with flame or

exposure to high temperature. (Carbon monoxide, Carbon dioxide).

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to

waterways and sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and

emergency procedures

Methods and material for containment and cleaning up

Caution - spillages may be slippery. Eliminate sources of ignition. Shut off leaks if without risk. Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid breathing vapours.

Provided it is safe to do so, isolate the source of the leak. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water. Avoid release to the environment.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Ensure adequate ventilation Avoid inhalation of high concentrations of vapours.

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before

breaks and after work.

Conditions for safe storage, including any Keep container tightly closed. Store in a cool/low-temperature, well-ventilated incompatibilities (dry) place away from heat and ignition sources.

Keep cool. Protect from sunlight. <27℃

Incompatible materials Acids, Peroxides, metallic copper, Tin, Zinc and their alloys, halogenated

compounds.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

storage temperature

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note	Source
Borates, tetra, sodium salts (Anhydrous)	1330-43- 4	-	1	-	-	-	NIOSH
		-	2	-	6	A4 Inhalable particulate matter	ACGIH

Source:

NIOSH: National Institute for Occupational Safety and Health (NIOSH) Recommended exposure limits (RELs)

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ACGIH: American Conference of Governmental Industrial Hygienists - Threshold limit values (TLV) 2021 Notes:

A4 - Not Classifiable as a Human Carcinogen

Biological Exposure Indices Not established

Appropriate engineering controls Ensure adequate ventilation Store in a cool/low-temperature, well-ventilated (dry)

place away from heat and ignition sources.

Individual protection measures, such as personal

protective equipment

Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke at the work place.

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.

Use eye protection according to EN 166, designed to protect against liquid

splashes.

Skin protection

Eye / face protection



Wear suitable chemical resistant protective gloves for frequent or prolonged operations tested to EN374 with an acceptable permeation test. Contaminated

gloves should be carefully rinsed with water before reuse.

Respiratory protection



Respiratory protection is not necessary if room is well ventilated. In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Colourless liquid Appearance Odour Mild ammonia odor Odour threshold Not established Not established

Melting point/freezing point \mathfrak{D} Initial boiling point and boiling range 100℃

Flash point Not established Evaporation rate <1 (BuAc = 1)Not applicable - Liquid Flammability (solid, gas)

Upper/lower flammability or explosive limits Not applicable 760 mmHg @ 100℃ Vapour pressure

Vapour density 1 (Air = 1)Relative density 1 (Water = 1)Soluble in water. Solubility(ies) Partition coefficient: n-octanol/water Not established

Not established Auto-ignition temperature Not established Decomposition temperature Viscosity Not established

Other information None Known Explosive properties Not explosive.

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SECTION 10: STABILITY AND REACTIVITY

ReactivityStable under normal conditions.Chemical stabilityStable under normal conditions.

Possibility of hazardous reactions Hazardous polymerisation will not occur.

Conditions to avoid

Adding Sodium Hydroxide to this material and/or heating will volatize Ammonia..

Acids, Peroxides, metallic copper, Tin, Zinc and their alloys, halogenated

compounds.

Hazardous decomposition products

May decompose in a fire giving off toxic fumes. When heated, material will emit

anhydrous ammonia vapor which necessitates respiratory and eye protection for

firefighting.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

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

Calculated acute toxicity estimate (ATE) >2,000 mg/kg.

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

Calculated acute toxicity estimate (ATE) >2,000 mg/kg.

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

Calculated acute toxicity estimate (ATE) > 5 mg/L (Dusts)

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.

Information on likely routes of exposure

 Inhalation
 Possible – accidental exposure

 Ingestion
 Unlikely – accidental exposure

 Skin contact
 Possible – accidental exposure

 Eye contact
 Possible – accidental exposure

Early onset symptoms related to exposure None anticipated

Delayed health effects from exposure None anticipated

Exposure levels and health effects See Section: 8

Interactive effects None Known

Other information

OSHA Designated Carcinogen

NIOSH Occupational Carcinogen List

NTP Report on Carcinogens

All chemicals are not listed

SECTION 12: ECOLOGICAL INFORMATION

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

Persistence and degradabilityNo data for the mixture as a whole.Bioaccumulative potentialNo data for the mixture as a whole.Mobility in soilNo data for the mixture as a whole.

Other adverse effects None Known. Not classified as PBT or vPvB.

SECTION 13: DISPOSAL CONSIDERATIONS

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

wastes in an approved waste disposal facility.

Packaging waste Dispose of contents in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

Road/rail (ADR/RID) Sea transport (IMDG) Air (ICAO/IATA)
UN number Not classified Not classified Not classified

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Not classified

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UN proper shipping name
Not classified

Not classified

Not classified as a Marine Pollutant.

Special precautions for user See Section: 2
Transport in bulk according to Annex II of Marpol and Not applicable

the IBC Code

Environmental hazards

Additional information Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations

TSCA Chemical Data Reporting (CDR) Rule Sodium Tetraborate Pentahydrate – Subject to 25,000 lb reporting threshold

NIOSH Occupational Carcinogen List

EPCRA Section 313

All chemicals are not listed

US State Regulations

California (CA) Biological monitoring

All chemicals are not listed Proposition 65 (California)

All chemicals are not listed

California (CA) SCPR Sodium Tetraborate Pentahydrate – Candidate Chemicals List.

Maine State All chemicals are not listed

Massachusetts, New Jersey, Pennsylvania, Rhode

Island- State Right to Know Lists

Sodium Tetraborate Pentahydrate listed (TRQ 500 lbs)

Sodium Tetraborate Pentahydrate listed

New York -State Right to Know Lists

Sodium Tetraborate Pentahydrate listed (TRQ 50 Minnesota - State Right to Know Lists

Sodium Tetraborate Pentahydrate (CHC listed)

Massachusetts – Toxic Use reduction act All chemicals are not listed

Rhode Island State - Hazardous substances RTK Act Sodium Tetraborate Pentahydrate listed

Non-Regional

IARC Monographs All chemicals are not listed

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – V3.0

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 3.0

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This Safety Data Sheet was prepared in accordance with US Regulation OSHA HCS (29 CFR 1910.1200)

References:

Harmonised Classification(s) for Sodium tetraborate pentahydrate (CAS No. 12179-04-3) Existing ECHA registration(s) for Sodium tetraborate pentahydrate (CAS No. 12179-04-3)

Legend

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

CAS CAS: Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

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CWA Clean Water Act

IATA International Air Transport Association
IARC International Agency for Research on Cancer
ICAO International Civil Aviation Organization
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

MARPOL The International Convention for the Prevention of Pollution from Ships

NTP National Toxicology Program

OSHA The Occupational Safety & Health Administration

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

TSCA Toxic Substance Control Act

UN United Nations

US EPA United States Environmental Protection Agency

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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