

Material Safety Data Sheet

PitDrop PH074 - pH Neutralizing Solution

Report No.: HGM16K17S-1

Version: V1.0.0.1

Creation Date: 2018/09/18

Revision Date: 2021/11/09

Prepared according to UN GHS (the 6th revised edition)



1 Identification of the chemical and supplier

Product identifier

Product Name	PitDrop PH074 pH Neutralizing Solution
Synonyms	pH Neutralizer
Model Specifications	20 ml, 100 ml, 250 ml, 500 ml etc.
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Neutralize pH, wash the wound, wash eyes.
Uses advised against	No special instructions.

Uses advised against	No special instructions.

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2 Hazards identification

Hazard classification according to GHS

Hazard classification according to GHS	Not applicable
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Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

Hazard statements

Hazard statements	Not applicable
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Precautionary statements

◆ Prevention

Prevention	Not applicable
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◆ Response

Response	Not applicable
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◆ Storage

Storage	Not applicable
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◆ Disposal

Disposal	Not applicable
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Hazard description

◆ Physical and chemical hazards

	Liquid. Soluble in water. Not combustible.
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◆ Health hazards

Inhaled	No harm in general situation.
Ingestion	No harm in general situation.
Skin Contact	No harm in general situation.
Eye	No harm in general situation.

◆ Environmental hazards

	Please refer to 12th chapter of MSDS.
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3 Composition/information on ingredients

Component	Cas No.	EC No.	Concentration (weight percent, %)
Aqua Water	7732-18-5	231-791-2	95.1
Dibasic Sodium Phosphate	7558-79-4	231-448-7	Commercial secrets
Monopotassium Phosphate	7778-77-0	231-913-4	Commercial secrets

4 First aid measures**Description of first aid measures**

General advice	Immediate medical attention is required. Show this Material Safety Data Sheet (MSDS) to the doctor in attendance.
Eye contact	No harm in general situation. First aid is not needed.
Skin contact	No harm in general situation. First aid is not needed.
Ingestion	No harm in general situation. First aid is not needed.
Inhalation	No harm in general situation. First aid is not needed.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

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|---|------------------------|
| 1 | Please see section 11. |
|---|------------------------|

Indication of any immediate medical attention and special treatment needed

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| 1 | Treat symptomatically. |
| 2 | Symptoms may be delayed. |

5 Firefighting measures**Extinguishing media**

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

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|---|------------------------------------------------------------------------------------------|
| 1 | Not combustible, not considered as a significant fire risk, however containers may burn. |
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Advice for firefighters

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| 1 | As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. |
| 2 | Fight fire from a safe distance, with adequate cover. |
| 3 | Prevent fire extinguishing water from contaminating surface water or the ground water system. |

6 Accidental release measures**Personal precautions, protective equipment and emergency procedures**

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|---|--------------------------------------------------------------|
| 1 | Ensure adequate ventilation. Remove all sources of ignition. |
| 2 | Clean up all spills immediately. |

Environmental precautions

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|---|-------------------------------------------------------|
| 1 | Prevent further leakage or spillage if safe to do so. |
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Methods and materials for containment and cleaning up

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|---|--------------------------------------------------------------------------------------------------------------------|
| 1 | Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. |
|---|--------------------------------------------------------------------------------------------------------------------|

7 Handling and storage**Precautions for handling**

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|---|-------------------------------------------------------|
| 1 | Handling is performed in a well ventilated place. |
| 2 | Keep away from heat/sparks/open flames/ hot surfaces. |
| 3 | Open and handle container with care. |

Precautions for storage

- | | |
|---|------------------------------------------------------------------|
| 1 | Keep containers tightly closed. |
| 2 | Keep containers in a dry, cool and well-ventilated place. |
| 3 | Keep away from heat/sparks/open flames/ hot surfaces. |
| 4 | Store away from incompatible materials and foodstuff containers. |

8 Exposure controls/personal protection

Control parameters

Occupational Exposure limit values

Occupational Exposure limit values	No information available
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Biological limit values

Biological limit values	No information available
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Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard).

Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

General requirement	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed.
Hand protection	In general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed.
Skin and body protection	In general situation, skin and body protection are not needed.

9 Physical and chemical properties

Physical and chemical properties

Appearance	Colorless transparent liquid
Odor	No special odor
Odor threshold	No information available
pH	7.2 - 7.4
Melting point/freezing point(°C)	0 (Aqua Water)
Initial boiling point and boiling range(°C)	100 (Aqua Water)
Flash point(Closed cup, °C)	Not combustible
Evaporation rate	No information available
Flammability	Not combustible
Upper/lower explosive limits[% (v/v)]	Upper limit: Not combustible; Lower limit: Not combustible
Vapor pressure	2.33kPa (20°C, Aqua Water)
Relative vapour	>1 (Aqua Water)

density(Air=1)	
Relative density(Water=1)	1 (3.9°C, Aqua Water)
Solubility(mg/L)	Miscible with water
n-octanol/water partition coefficient	Not applicable
Auto-ignition temperature(°C)	Not combustible
Decomposition temperature(°C)	Not applicable
Kinematic viscosity	No information available
Particle characteristics	Not applicable

10 Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, non metal oxide, acyl halide and metal phosphide.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Component	Cas No.	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation, 4h)
Monopotassium Phosphate	7778-77-0	>4640 mg/kg(Rat)	>2000 mg/kg(Rat)	No information available
Dibasic Sodium Phosphate	7558-79-4	17000 mg/kg(Rat)	>2000 mg/kg(Rat)	No information available

Carcinogenicity

ID	Cas No.	Component	IARC	NTP
1	7732-18-5	Aqua Water	Not Listed	Not Listed
2	7558-79-4	Dibasic Sodium Phosphate	Not Listed	Not Listed
3	7778-77-0	Monopotassium Phosphate	Not Listed	Not Listed

Others

Emergency pH Neutralizing Solution	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye Damage/irritation	Based on available data, the classification criteria are not met

Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive Toxicity(additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
Monopotassium Phosphate	7778-77-0	LC ₅₀ : >100 mg/L (96h) (Fish)	EC ₅₀ : >100 mg/L (48h) (Crustaceans)	ErC ₅₀ : >100 mg/L (72h) (Algae)
Dibasic Sodium Phosphate	7558-79-4	LC ₅₀ : >100 mg/L (96h) (Fish)	EC ₅₀ : >100 mg/L (48h) (Crustaceans)	ErC ₅₀ : >100 mg/L (72h) (Algae)

Chronic aquatic toxicity

Chronic aquatic toxicity	No information available
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Others

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Results of PBT and vPvB assessment	The components of the product do not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section 13.1 and 13.2

14 Transport information

Label and Mark

Transporting Label	Not applicable
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IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
ICAO/IATA-DG	
ICAO/IATA-DG	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
UN-ADR	
UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15 Regulatory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Aqua Water	✓	✓	✓	✓	✓	✓	✓	✓	✗
Dibasic Sodium Phosphate	✓	✓	✓	✓	✓	✓	✓	✓	✓
Monopotassium Phosphate	✓	✓	✓	✓	✓	✓	✓	✓	✓

【EINECS】 European Inventory of Existing Commercial Chemical Substances

【TSCA】 United States Toxic Substances Control Act Inventory

【DSL】 Canadian Domestic Substances List

【IECSC】 China Inventory of Existing Chemical Substances

【NZIoC】 New Zealand Inventory of Chemicals

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances

【KECI】 Existing and Evaluated Chemical Substances

【AICS】 Australia Inventory of Chemical Substances

【ENCS】 Existing And New Chemical Substances

Note

“✓” Indicates that the substance included in the regulations

“✗” That no data or included in the regulations

16 Others

Information on revision

Creation Date	2018/09/18
Revision Date	2021/11/09
Reason for revision	Custom Purpose

Reference

[1]IPCS:The International Chemical Safety Cards (ICSC) , website: <http://www.ilc.org/dyn/icsc/showcard/home>.

[2]IARC, website: <http://www.iarc.fr/>.

[3]OECD: The Global Portal to Information on Chemical Substances, website:

http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.

[4]CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.

[5]NLM:ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.

[6]EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.

[7]U.S. Department of Transportation:ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.

[8]Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

| Abbreviations and acronyms

CAS –Chemical Abstracts Service

PC-STEL- Short term exposure limit

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC₅₀ - Lethal Concentration 50%

NOEC -No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

BCF - Bioconcentration factor (BCF)

IMDG-International Maritime Dangerous Goods

UN-The United Nations

NFPA-National Fire Protection Association

CMR - Carcinogens, mutagens or substances toxic to reproduction

PC-TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC –Predicted No Effect Concentration

LD₅₀- Lethal Dose 50%

EC₅₀ - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ICAO/IATA-International Civil Aviation Organization/International Air Transportation Association

ACGIH-American Conference of Governmental Industrial Hygienists

OECD-Organization for Economic Co-operation and Development

| Disclaimer

This Material Safety Data Sheet (MSDS) was prepared according to UN GHS (the 6th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.