

## Safety Data Sheet according to WHS Regulations

Printing date 14.09.2021

Revision: 14.09.2021

### 1 Identification

**Product Name:** pH Down

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** pH adjustor

**Details of Manufacturer or Importer:**

Nutrifield Pty Ltd  
52 Technology Drive  
Sunshine West, VIC 3020

**Phone Number:** +61 (3) 9315 5800

**Emergency telephone number:** National Poisons Information Centre: 13 11 26

### 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Corrosion

Skin Corrosion/Irritation 1B      H314 Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation 1      H318 Causes serious eye damage.



Acute Toxicity (Inhalation) 4      H332 Harmful if inhaled.

**Signal Word** Danger

**Hazard Statements**

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

**Precautionary Statements**

P260 Do not breathe dusts or mists.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

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**Product Name: pH Down**

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### 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 7664-38-2	Phosphoric acid	60-80%
 Skin Corrosion/Irritation 1B, H314;  Acute Toxicity (Inhalation) 4, H332		

### 4 First Aid Measures

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with flowing water for at least 15 minutes. Seek immediate medical attention.

**Eye Contact:**

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Information for Doctor:**

Symptoms should not be mistaken for heat exhaustion or smoke inhalation. Treat burns as acid burns.

**Symptoms Caused by Exposure:**

**Inhalation:** Harmful if inhaled. May cause respiratory irritation. Symptoms include spasms, headache, burning sensation, coughing, wheezing, laryngitis, cyanosis, inflammation and oedema of the larynx and bronchi, pulmonary oedema, tissue destruction of the mucous membranes and upper respiratory tract, lung irritation, shortness of breath, and fluid in lungs.

**Skin Contact:** Causes severe skin burns.

**Eye Contact:** Causes serious eye damage. Symptoms include tissue destruction, permanent damage to the cornea, and blindness.

**Ingestion:** May cause gastrointestinal irritation, nausea, diarrhoea and vomiting. Symptoms include burning sensation, burns to the mouth and esophagus, abdominal pain, chest pain, shortness of breath, seizures, and death.

### 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Dry chemical powder, carbon dioxide, or appropriate foam.

**Specific Hazards Arising from the Chemical:**

Hazardous decomposition products include hydrogen, phosphine, oxides of phosphorous, toxic fumes, and a virulent gas of oxidation phosphorous at high temperatures.

Product is non-flammable.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Prevent run-off from fire fighting entering drains or water courses.

HAZCHEM Code: 2R

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

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### 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and neutralise spilled product with lime or soda. Absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Provide adequate ventilation and wash spill site afterwards. Use only non-sparking tools.

### 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Avoid prolonged or repeated exposure.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Contaminated work clothing must not be allowed out of the workplace. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep in original container, tightly closed when not in use. Inspect regularly for damage or leaks. Keep away from strong oxidising agents, strong reducing agents, strong alkali, active metal powder, metals, fluorine, sulphur trioxide, and phosphorous pentoxide. Take precautionary measures against static discharges. Protect from direct sunlight, moisture, excessive heat, and sources of ignition.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:**
**CAS: 7664-38-2 Phosphoric acid**

WES	STEL: 3 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>
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**Engineering Controls:**

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

**Respiratory Protection:**

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Rubber or neoprene gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing, including chemical-resistant coveralls and safety footwear (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

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**Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear
<b>Odour:</b>	Neutral
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	1.5
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	No information available
<b>Flammability:</b>	Non-flammable
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	No information available
<b>Density:</b>	No information available
<b>Relative Density:</b>	1.65
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Completely soluble
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Viscosity:</b>	No information available

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:**

Hazardous polymerisation may occur. Releases hydrogen on contact with metals, which may cause explosions.

**Chemical Stability:**

Stable at ambient temperature and under normal conditions of storage and use. Corrosive liquid. Will absorb moisture from the air.

**Conditions to Avoid:** Protect from direct sunlight, moisture, excessive heat, and sources of ignition.

**Incompatible Materials:**

Keep away from strong oxidising agents, strong reducing agents, strong alkali, active metal powder, metals, fluorine, sulphur trioxide, and phosphorous pentoxide.

**Hazardous Decomposition Products:**

Hazardous decomposition products include hydrogen, phosphine, oxides of phosphorous, toxic fumes, and a virulent gas of oxidation phosphorous at high temperatures.

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## 11 Toxicological Information

**Toxicity:****LD50/LC50 Values Relevant for Classification:****CAS: 7664-38-2 Phosphoric acid**

Oral	LD50	1,530 mg/kg (rat)
Dermal	LD50	2,740 mg/kg (rabbit)
Inhalation	LC50/1 h	>850 mg/m <sup>3</sup> (rat)

**Acute Health Effects****Inhalation:**

May cause respiratory irritation. Symptoms include spasms, headache, burning sensation, coughing, wheezing, laryngitis, cyanosis, inflammation and oedema of the larynx and bronchi, pulmonary oedema, tissue destruction of the mucous membranes and upper respiratory tract, lung irritation, shortness of breath, and fluid in lungs.

**Skin:** Causes severe skin burns.

**Eye:**

Causes serious eye damage. Symptoms include tissue destruction, permanent damage to the cornea, and blindness.

**Ingestion:**

May cause gastrointestinal irritation, nausea, diarrhoea and vomiting. Symptoms include burning sensation, burns to the mouth and esophagus, abdominal pain, chest pain, shortness of breath, seizures, and death.

**Skin Corrosion / Irritation:** Causes severe skin burns.

**Serious Eye Damage / Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:** No further relevant information available.

**Existing Conditions Aggravated by Exposure:** No data available.

## 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:**

May be toxic to aquatic organisms, causing long-term adverse effects in the aquatic environment.

**CAS: 7664-38-2 Phosphoric acid**

EC50	270 mg/l (activated sludge inhibition)
EC50/48 h	>100 mg/l (daphnia)
EC50/72 h	>100 mg/l (scenedesmus subspicatus)

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LC50/96 h | 138 mg/l (mosquito fish)

**Persistence and Degradability:** No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 Transport Information

<b>UN Number</b>	UN1805
<b>ADG, IMDG, IATA</b>	
<b>Proper Shipping Name</b>	PHOSPHORIC ACID, SOLUTION
<b>ADG, IMDG, IATA</b>	
<b>Dangerous Goods Class</b>	
<b>ADG Class:</b>	8 Corrosive substances.
<b>Subsidiary Risk:</b>	
<b>Packing Group:</b>	
<b>ADG, IMDG, IATA</b>	III
<b>Marine pollutant:</b>	
<b>EMS Number:</b>	F-A,S-B
<b>Hazchem Code:</b>	2R
<b>Special Provisions:</b>	223
<b>Limited Quantities:</b>	5L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC03, LP01
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T4
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP1

## 15 Regulatory Information

**Australian Inventory of Industrial Chemicals:**

All ingredients are listed.

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 6

## 16 Other Information

**Date of Preparation or Last Revision:** 14.09.2021**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

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**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Acute Toxicity (Inhalation) 4: Acute toxicity – Category 4

Skin Corrosion/Irritation 1B: Skin corrosion/irritation – Category 1B

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020”

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