# Proper pH 6.5 Powder

Mars Fishcare North America, Inc.

Chemwatch: **4658-55**Version No: **5.1.1.1** 

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Chemwatch Hazard Alert Code: 2

Issue Date: **06/27/2017**Print Date: **10/18/2018**S.GHS.USA.EN

## **SECTION 1 IDENTIFICATION**

#### **Product Identifier**

Product name	Proper pH 6.5 Powder
Synonyms	Not Available
Other means of identification	Not Available

#### Recommended use of the chemical and restrictions on use

Relevant identified uses

Use according to manufacturer's directions. For product 35.

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Mars Fishcare North America, Inc.
Address	50 E. Hamilton Street United States
Telephone	215 822 8181
Fax	215 997 1290
Website	Not Available
Email	Not Available

#### **Emergency phone number**

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

# **SECTION 2 HAZARD(S) IDENTIFICATION**

### Classification of the substance or mixture

## NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Acute Aquatic Hazard Category 2

#### Label elements

Hazard pictogram(s)



SIGNAL WORD WARNING

#### Hazard statement(s)

Tidzard Statement(s)	
H315	Causes skin irritation.
H319	Causes serious eye irritation.

H335	May cause respiratory irritation.
H401	Toxic to aquatic life.

## Hazard(s) not otherwise specified

Not Applicable

# Precautionary statement(s) Prevention

P271	Jse only outdoors or in a well-ventilated area.	
P261	Avoid breathing dust/fumes.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

# Precautionary statement(s) Response

P362	Take off contaminated clothing and wash before reuse.	
P305+P351+P338	IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. ontinue rinsing.	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.	
P337+P313	eye irritation persists: Get medical advice/attention.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	

# Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

# Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.
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## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### **Substances**

See section below for composition of Mixtures

## **Mixtures**

CAS No	%[weight]	Name
	>60	phosphate, proprietary
7772-98-7	1-5	sodium thiosulfate
64-02-8	1-5	EDTA tetrasodium salt
	balance	other non hazardous ingredients

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## **SECTION 4 FIRST-AID MEASURES**

### **Description of first aid measures**

	,		
Eye Contact    Figure Contact			
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.		
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> </ul>		

	► Transport to hospital, or doctor, without delay.	
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>	

#### Most important symptoms and effects, both acute and delayed

See Section 11

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

for phosphate salts intoxication:

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhoea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the faeces with the diarrhoea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity.
- Treatment should take into consideration both anionic and cation portion of the molecule.
- All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcaemia, so calcium levels should be monitored.

#### **SECTION 5 FIRE-FIGHTING MEASURES**

#### **Extinguishing media**

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

#### Special hazards arising from the substrate or mixture

Fire	Incompatibility
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Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition
may result

#### Special protective equipment and precautions for fire-fighters

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Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Decomposition may produce toxic fumes of:     phosphorus oxides (POx)     sulfur oxides (SOx)</li> <li>May emit corrosive fumes.</li> </ul>

#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

## Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing dust and contact with skin and eyes.</li> <li>Wear protective clothing, gloves, safety glasses and dust respirator.</li> </ul>
Major Spills	Moderate hazard. ► CAUTION: Advise personnel in area. ► Alert Emergency Services and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

<ul> <li>Avoid all personal contact, including inhalation.</li> </ul>
r Avoid ali Deisonal Contact, includind innaiation.

- ► Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.

  Safe handling

  Organic powders when finely.
  - Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)

	<ul> <li>Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.</li> <li>Establish good housekeeping practices.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> </ul>

## Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>▶ Lined metal can, lined metal pail/ can.</li> <li>▶ Plastic pail.</li> <li>▶ Polyliner drum.</li> </ul>
Storage incompatibility	<ul> <li>Phosphates are incompatible with oxidising and reducing agents.</li> <li>Phosphates are susceptible to formation of highly toxic and flammable phosphine gas in the presence of strong reducing agents such as hydrides.</li> <li>Partial oxidation of phosphates by oxidizing agents may result in the release of toxic phosphorus oxides.</li> <li>Sulfides are incompatible with acids, diazo and azo compounds, halocarbons, isocyanates, aldehydes, alkali metals, nitrides, hydrides, and other strong reducing agents.</li> <li>Many reactions of sulfides with these materials generate heat and in many cases hydrogen gas.</li> <li>Many sulfide compounds may liberate hydrogen sulfide upon reaction with an acid.</li> </ul>



- Must not be stored together
- May be stored together with specific preventions
- May be stored together

#### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

## **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
sodium thiosulfate	Sodium thiosulfate pentahydrate	2.4 mg/m3	26 mg/m3	1,200 mg/m3
sodium thiosulfate	Sodium thiosulfate	38 mg/m3	410 mg/m3	2,500 mg/m3
EDTA tetrasodium salt	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	82 mg/m3	900 mg/m3	5,500 mg/m3
EDTA tetrasodium salt	Ethylenediaminetetraacetic acid, tetrasodiumn salt; (Tetrasodium EDTA)	75 mg/m3	830 mg/m3	5,000 mg/m3

Ingredient	Original IDLH	Revised IDLH
sodium thiosulfate	Not Available	Not Available
EDTA tetrasodium salt	Not Available	Not Available

## **Exposure controls**

#### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

### Personal protection









### Eye and face protection

- ▶ Safety glasses with side shields.
- Chemical goggles.
- ► Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

#### Skin protection

See Hand protection below

# The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Hands/feet protection

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

	<ul><li>▶ polychloroprene.</li><li>▶ nitrile rubber.</li></ul>
Body protection	See Other protection below
Other protection	► Overalls. ► P.V.C. apron.

#### Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- ▶ Use approved positive flow mask if significant quantities of dust becomes airborne.
- ▶ Try to avoid creating dust conditions.

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

Appearance	White powder with a little odour; soluble in water.		
Physical state	Divided Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

## **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 TOXICOLOGICAL INFORMATION**

### Information on toxicological effects

Inhaled

Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis,

Skin Irritation/Corrosion  Serious Eye Damage/Irritation  Respiratory or Skin sensitisation	STOT - Singl	le Exposure Γ - Repeated Exposure	<b>✓</b>	
Serious Eye	✔ STOT - Singl	le Exposure	<b>✓</b>	
Skin Irritation/Corrosion				
	<b>✓</b> Rep	oroductivity	0	
Acute Toxicity	○ Carc	inogenicity	0	
Proper pH 6.5 Powder & SODIUM THIOSULFATE	Asthma-like symptoms may continue for months or even years non-allergic condition known as reactive airways dysfunction sylevels of highly irritating compound. Main criteria for diagnosing a non-atopic individual, with sudden onset of persistent asthmatexposure to the irritant.	yndrome (RAD g RADS includ	(S) which can occur after exposure to high e the absence of previous airways disease i	
Proper pH 6.5 Powder	The following information refers to contact allergens as a group Contact allergies quickly manifest themselves as contact eczet pathogenesis of contact eczema involves a cell-mediated (T ly The material may be irritating to the eye, with prolonged contact irritants may produce conjunctivitis.	ma, more rare mphocytes) in	y as urticaria or Quincke's oedema. The number reaction of the delayed type.	
	,			
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS.     Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances			
		Skin (rabbit):5	00 mg/24h-moderate	
25 toti usodium sait		Eyes (rabbit):	100 mg/24h-moderate	
EDTA tetrasodium salt	Oral (rat) LD50: 630 mg/kg <sup>[2]</sup>	Eyes (rabbit):	: 1.9 mg	
	TOXICITY	IRRITATION		
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>			
sodium thiosulfate	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available		
	TOXICITY	IRRITATION		
Proper pH 6.5 Powder	Not Available	Not Available	zailable	
B	тохісіту	IRRITATION		
	particles less than 0.5 micron penetrating and remaining in the l	lung.		
Chronic	Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by			
Eye	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.			
Skin Contact	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Ingestion	As absorption of phosphates from the bowel is poor, poisoning this way is less likely. Effects can include vomiting, tiredness, fever, diarrhoea, low blood pressure, slow pulse, cyanosis, spasms of the wrist, coma and severe body spasms.			
	If prior damage to the circulatory or nervous systems has occu screenings should be conducted on individuals who may be expresult in excessive exposures.		ey damage has been sustained, proper	

- ✓ Data available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

# **Toxicity**

Proper pH 6.5 Powder	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
sodium thiosulfate	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	24000mg/L	4
					·

	NOEC	0.08	Algae or other aquatic plants	50mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	486mg/L	4
EDTA tetrasodium salt	EC50	72	Algae or other aquatic plants	=1.01mg/L	1
	EC10	72	Algae or other aquatic plants	=0.48mg/L	1
	NOEC	71	Algae or other aquatic plants	0.0003802mg/L	4
Legend:	Toxicity 3. EP Data 5. ECE1	m 1. IUCLID Toxicity Data 2. Europe ECI IWIN Suite V3.12 (QSAR) - Aquatic Tox TOC Aquatic Hazard Assessment Data 6 tion Data 8. Vendor Data	icity Data (Estimated) 4. US EPA, Ec	otox database - Aqua	

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium thiosulfate	HIGH	HIGH

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
sodium thiosulfate	LOW (LogKOW = -1.529)

#### Mobility in soil

Ingredient	Mobility
sodium thiosulfate	LOW (KOC = 6.124)

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

**Product / Packaging** 

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ▶ Recycle wherever possible.
- ► Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- ▶ Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material)
- Decontaminate empty containers.

## **SECTION 14 TRANSPORT INFORMATION**

disposal

#### **Labels Required**

**Marine Pollutant** 

NO

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### **SECTION 15 REGULATORY INFORMATION**

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

SODIUM THIOSULFATE(7772-98-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

# **Federal Regulations**

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SECTION 311/312 HAZARD CATEGORIES

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No

## US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

## **State Regulations**

# US. CALIFORNIA PROPOSITION 65

None Reported

# **National Inventory Status**

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (sodium thiosulfate; EDTA tetrasodium salt)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	Υ
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## **SECTION 16 OTHER INFORMATION**

Revision Date	06/27/2017
Initial Date	Not Available

#### Other information

## Ingredients with multiple cas numbers

Name	CAS No
sodium thiosulfate	7772-98-7, 10102-17-7
EDTA tetrasodium salt	64-02-8, 10378-23-1, 13235-36-4, 194491-31-1

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

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