

# MATERIAL SAFETY DATA SHEET REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

DATE UPDATED: MARCH 21, 2016

SECTION 1. ----- CHEMICAL IDENTIFICATION-----

Product Name PBS Tablets, 100ml

Product Code(s) PD0435

**Recommended Use** For Further Manufacturing Use Only

Not for Human or Animal Drug Use

# SECTION 2. ---- COMPOSITION/INFORMATION ON INGREDIENTS -----

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Sodium Chloride	EEC No. 231-598-3	Not available	7647-14-5	>1	Xi;R36/37/38
Sodium Phosphate	EEC No. 231-448-7	Not available	7558-79-4	>1	-
Potassium	EEC No. 231-913-4	Not available	7778-77-0	>1	-
phosphate					
Potassium Chloride	EEC No. 231-211-8	Not available	7447-40-7	>1	-

### SECTION 3. ----- HAZARDS IDENTIFICATION -----

**GHS - Classification** 

Classification Skin Irritant 2 Eye Irritant 2

Signal Word Warning



Hazard Statements H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May

cause respiratory irritation

Precautionary Statements P280 - Wear protective gloves/protective clothing/eye protection/face protection

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 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

SECTION 4. ----- FIRST-AID MEASURES-----

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

Skin Contact Wash off immediately with soap and plenty of water removing all

contaminated clothes and shoes.

**Inhalation**Move to fresh air. If not breathing, give artificial respiration.
Ingestion
Clean mouth with water and afterwards drink plenty of water.

Notes to Physician Treat symptomatically

# SECTION 5. ----- FIRE FIGHTING MEASURES -----

QF26 Rev2.0

Not flammable Flammable Properties **Flash Point** Not determined

Use extinguishing media appropriate to surrounding fire conditions. **Suitable Extinguishing Media** 

**Hazardous Combustion Products** 

**Explosion Data Sensitivity to Mechanical Impact**  No information available.

Not sensitive

Sensitivity to Static Discharge Not sensitive **Protective Equipment and Precautions for Firefighters** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or

equivalent) and full protective gear

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

Avoid contact with skin, eyes and clothing. Use personal protective equipment Ensure **Personal Precautions** 

adequate ventilation.

Methods for Containment Prevent further leakage or spillage if safe to do so

Methods for Cleaning Up Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate

area and wash spill site after material pickup is complete.

SECTION 7. ------ HANDLING AND STORAGE-----

Handle in accordance with good industrial hygiene and safety practice. Handling

Hygroscopic.

Keep containers tightly closed in a dry, cool and well-ventilated place. **Storage** 

Hygroscopic.

**Incompatible Products** Strong acids.

## SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - -

**Engineering Measures** Showers

> **Evewash stations** Ventilation systems

**Personal Protective Equipment** 

**Eye/Face Protection** Tightly fitting safety goggles. Wear protective gloves/clothing **Skin and Body Protection** 

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced,

> NIOSH/MSHA Approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with

current local regulations

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety

practice

# SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

**Appearance** White

Odor No information available **Odor Threshold** No information available **Decomposition Temperature °C** No information available **Freezing Point** No information available **Initial Boiling Point** No information available

**Physical State** Tablet

No data available На **Flash Point** Not determined **Autoignition Temperature** No data available **Boiling Point/Range** No data available Melting Point/Range No data available

Flammability Limits in Air Upper No data available Lower No data available

**Explosive Properties** No information available

QF26 Rev2.0 2 **Oxidizing Properties** No information available

**Evaporation Rate** No data available MMHG @ 37.8 C No data available **Vapor Density** No data available Specific Gravity No data available

Solubility No information available No data available

**Partition Coefficient** 

(n-octanol/water)

No information available **Viscosity** 

SECTION 10. ------STABILITY AND REACTIVITY -----

Stability Stable under recommended storage conditions

**Incompatible Products** Strong acid.

Protect from moisture. **Conditions to Avoid Hazardous Decomposition Products** No information available

**Hazardous Polymerization** Hazardous polymerization does not occur

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

**Acute Toxicity** 

**Product Information** Irritating to eye, skin and respiratory system.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Chloride	3 g/kg ( Rat )	10 g/kg(Rabbit)	42 g/m₃ ( Rat ) 1 h
Sodium Phosphate	17 g/kg ( Rat )		
Potassium		4640 mg/kg ( Rabbit )	
phosphate			
Potassium Chloride	2600 mg/kg ( Rat )		

# **Chronic Toxicity**

**Chronic Toxicity** No known effect based on information supplied

**Target Organ Effects** None known.

SECTION 12. ----- ECOLOGICAL INFORMATION -----

**Ecotoxicity** 

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sodium Chloride		LC50 6020-7070 mg/L Pimephales promelas 96 h LC50 6420-6700 mg/L Pimephales promelas 96 h LC50 4747-7824 mg/L Oncorhynchus mykiss 96 h LC50= 12946 mg/L Lepomis macrochirus 96 h LC50= 7050 mg/L Pimephales promelas 96 h LC50 5560-6080 mg/L Lepomis macrochirus 96 h		EC50 = 1000 mg/L 48 h
Potassium Chloride	EC50 = 2500 mg/L 72 h	LC50 750-1020 mg/L Pimephales promelas 96 h LC50= 1060 mg/L Lepomis macrochirus 96 h		EC50 = 825 mg/L 48 h

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

**Waste Disposal Method** Dispose of material in accordance with all federal, state, and local

regulations

Dispose of in accordance with all federal, state and local regulations **Contaminated Packaging** 

QF26 Rev2.0 3 SECTION 14. ----- TRANSPORT INFORMATION -----

IATA Not regulated

**DOT** Not regulated

SECTION 15. ----- REGULATORY INFORMATION -----

**REACH Title VII Restrictions** No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Sodium Chloride	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Sodium Phosphate	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Potassium phosphate	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Potassium Chloride	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Sodium Chloride 7647-14-5 (>1)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Sodium Phosphate 7558-79-4 (>1)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Potassium phosphate 7778-77-0 (>1)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Potassium Chloride 7447-40-7 (>1)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### **International Inventories**

TSCA Complies
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies

KECL Does not Comply

PICCS Complies AICS Complies

# **U.S. Federal Regulations**

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

QF26 Rev2.0 4

### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

# Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

# **CERCLA**

Component	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Sodium Phosphate	5000 lb	

### **U.S. State Regulations**

# California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium Phosphate	Χ	X	X	Χ	Χ

## **International Regulations**

Mexico - Grade No information available.

#### Canada

### **WHMIS Hazard Class**

D2B Toxic materials



SECTION 16. ----- OTHER INFORMATION-----

Issuing Date 13-Aug-2009
Revision Date 21-Mar-2016

Revision Note No information available.

Recommended Restrictions No information available

#### Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

# **End of MSDS**

QF26 Rev2.0 5