

# SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 24-Dec-2021

**Revision Number** 4

## 1. Identification

Product Name

## BP661-10, BP661-50, BP665-1, XXBP66510KG; NC2739937; NC1798078

Synonyms

Cat No. :

No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

**PBS Phosphate Buffered Saline** 

### Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

## **Emergency Telephone Number**

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

### **Classification**

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

#### Hazards not otherwise classified (HNOC)

### Other hazards

May cause skin, eye, and respiratory tract irritation.

## 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Sodium chloride	7647-14-5	81.0
Sodium phosphate dibasic	7558-79-4	~ 14
Dihydrogen potassium phosphate	7778-77-0	~ 3.0
Potassium chloride	7447-40-7	~ 2.0

4. First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.			
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.			
Ingestion	Do NOT induce vomiting. Get medical attention.			
Most important symptoms and	No information available.			
effects Notes to Physician	Treat symptomatically			

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t No information available No information available

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Containers may explode when heated.

#### **Hazardous Combustion Products**

Sodium oxides. Oxides of phosphorus. Potassium oxides.

## **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.

Flammability 0	Instability 1	Physical hazards N/A
6. Accidental rel	lease measures	
	0	Flammability 0Instability 16. Accidental release measures

Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.					
<b>Environmental Precautions</b>	vironmental Precautions See Section 12 for additional Ecological Information.					
Methods for Containment and Cle Up	ean Sweep up and shovel into suitable containers for disposal. Avoid dust formation.					
	7. Handling and storage					
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing.					
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place.					
8. [	Exposure controls / personal protection					
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.					
Engineering Measures	None under normal use conditions.					
Personal Protective Equipment						
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.					
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.					
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.					
Recommended Filter type:	Particle filter.					
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.					

## 9. Physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable

10. Stability and reactivity								
Reactive Hazard	Reactive Hazard None known, based on information available							
Stability			Stable under norm	al cond	itions. Hyg	roscopic.		
Conditions to Avoid			Incompatible produ	ucts. Ex	posure to	moisture.		
Incompatible Materia	als		Strong oxidizing ag	gents				
Hazardous Decomp	osition Pro	ducts	Sodium oxides, Ox	ides of	phosphoru	us, Potassium oxides		
Hazardous Polymeri	ization		Hazardous polyme	rization	does not	occur.		
Hazardous Reaction	IS		None under norma	l proces	ssing.			
			11. Toxico	ologio	cal info	ormation		
Acute Toxicity								
Product InformationNo acute toxicity information is available for this productOral LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Dermal LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Mist LC50Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.Component InformationFormation								
Component	t		LD50 Oral			LD50 Dermal		Inhalation
Sodium chloride			LD50 = 3  g/kg (Rat	)	LD50 > 1	10000 mg/kg (Rabbit)	LC50 > 42	mg/L(Rat)1 h
Sodium phosphate dibasic			LD50 = 17 g/kg (Rat	t )	Not listed		No	ot listed
Dihydrogen potassium phosphate		LC	050 = 3200 mg/kg(F	Rat )	LD50 > 4640 mg/kg (Rabbit)		LC50 > 0.83	mg/L(Rat)4 h
Potassium chlo	ride	LC	050 = 2600 mg/kg(F	Rat )		Not listed	No	ot listed
Toxicologically Syne Products Delayed and immedi	-		No information ava		n short ar	nd long-term exposi	Ire	
Irritation			May cause skin, ey					
Sensitization			No information ava		roopiratory			
Carcinogenicity						ach agency has listed		as a carcinogen.
Component	CAS N		IARC Not listed		NTP t listed	ACGIH	OSHA Not listed	Mexico
Sodium chloride Sodium phosphate	7647-14 7558-79		Not listed Not listed		t listed t listed	Not listed Not listed	Not listed Not listed	Not listed Not listed
dibasic Dihydrogen potassium phosphate	7778-77	-0	Not listed	No	t listed	Not listed	Not listed	Not listed
Potassium chloride	7447-40	-7	Not listed	No	t listed	Not listed	Not listed	Not listed
Mutagenic Effects			No information ava					
Reproductive Effects No information available.								
Developmental Effect	cts		No information ava	ilable.				
Teratogenicity			No information ava	ilable.				
STOT - single exposure     None known       STOT - repeated exposure     None known								

Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

## 12. Ecological information

## Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea		
Sodium chloride	Not listed	Pimephals prome: LC50:	Not listed	EC50: 1000 mg/L/48h		
		7650 mg/L/96h				
Potassium chloride	EC50: 2500 mg/L/72h	Lepomis macrochirus: LC50:	Not listed	EC50: 825 mg/L/48h		
		1060 mg/L /96h				
		Pimephales promelas: LC50:				
		750 - 1020 mg/L /96h				
Persistence and Degradability No information available						

**Bioaccumulation/Accumulation** 

No information available.

No information available.

Mobility

13. Disposal considerations		
	12 Dichoca	conciderations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated
DOT TDG IATA	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Sodium chloride	7647-14-5	Х	ACTIVE	-
Sodium phosphate dibasic	7558-79-4	Х	ACTIVE	-
Dihydrogen potassium phosphate	7778-77-0	Х	ACTIVE	-
Potassium chloride	7447-40-7	Х	ACTIVE	-

#### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

#### TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Sodium chloride	7647-14-5	Х	-	231-598-3	Х	Х	Х	Х	Х	KE-31387
Sodium phosphate dibasic	7558-79-4	Х	-	231-448-7	Х	Х	Х	Х	Х	KE-12344
Dihydrogen potassium phosphate	7778-77-0	Х	-	231-913-4	Х	Х	Х	Х	Х	KE-28622
Potassium chloride	7447-40-7	Х	-	231-211-8	Х	Х	Х	Х	Х	KE-29086

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any 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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Sodium phosphate dibasic	Х	5000 lb	-	-

Not applicable **Clean Air Act** Not applicable

**OSHA** - Occupational Safety and Health Administration

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Component	Hazardous Substances RQs	CERCLA Extremely Hazardous Substances RQs	SARA Reportable Quantity (RQ)
Sodium phosphate dibasic	5000 lb	-	5000 lb 2270 kg

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium phosphate	Х	Х	Х	-	-
dibasic					

### **U.S. Department of Transportation**

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	N

## **U.S. Department of Homeland**

This product does not contain any DHS chemicals.

## **Other International Regulations**

Mexico - Grade

No information available

## Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Sodium chloride	7647-14-5	-	-	-
Sodium phosphate dibasic	7558-79-4	-	-	-
Dihydrogen potassium phosphate	7778-77-0	-	-	-
Potassium chloride	7447-40-7	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Sodium chloride	7647-14-5	Listed	Not applicable	Not applicable	Not applicable
Sodium phosphate dibasic	7558-79-4	Listed	Not applicable	Not applicable	Not applicable
Dihydrogen potassium phosphate	7778-77-0	Listed	Not applicable	Not applicable	Not applicable
Potassium chloride	7447-40-7	Listed	Not applicable	Not applicable	Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

#### **Other International Regulations**

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Sodium chloride	7647-14-5	Not applicable	Not applicable	Not applicable	Not applicable
Sodium phosphate dibasic	7558-79-4	Not applicable	Not applicable	Not applicable	Not applicable
Dihydrogen potassium phosphate	7778-77-0	Not applicable	Not applicable	Not applicable	Not applicable
Potassium chloride	7447-40-7	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	22-Sep-2009 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).
Disclaimer	

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

## **End of SDS**