# **GE** Healthcare

# **SAFETY DATA SHEET**

New Zealand

Section 1. Identification

Product name

Yeast Suspension Buffer; part of 'Yeast Protein Extraction Buffer Kit'

Catalogue Number 28-9440-45

Other means of identification Not available.

Product type Liquid.

**Identified uses**Use in laboratories

Supplier

GE Healthcare UK Ltd Amersham Place Little Chalfont

Buckinghamshire HP7 9NA

England

+44 0870 606 1921

GE Healthcare Bio-Sciences 8 Tangihua Street

8 Tangihua Stree Auckland 1010

Person who prepared the MSDS: Emergency telephone number (with hours of operation)

msdslifesciences@ge.com 0800 733 893 (10am - 7pm)

Section 2. Hazards identification

**HSNO Classification** 6.4 - EYE IRRITATION - Category A (Irritant)

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

**GHS label elements** 

Signal word Warning

**Hazard statements** Causes serious eye irritation.

 ${\bf Precaution} {\bf ary} \ {\bf statements}$ 

**Prevention** Wear eye or face protection.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Wash hands after

handling.

Storage Not applicable.

Disposal Not applicable.

Symbol

**!**>

Other hazards which do not result

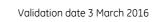
in classification

None known.



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# Section 3. Composition/information on ingredients

Substance/mixture Mixture
Other means of identification Not available.

CAS number/other identifiers

CAS number Not applicable.
EC number Mixture.
Product code 28-9440-45

Ingredient name%CAS numbersodium chloride<10</td>7647-14-5disodium hydrogenorthophosphate<5</td>7558-79-4

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-aid measures

#### Description of necessary first aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if

breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as

a collar, tie, belt or waistband.

**Ingestion** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If

unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical

attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Eye contact**Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for

and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

## Most important symptoms/effects, acute and delayed

## Potential acute health effects

**Inhalation** No known significant effects or critical hazards.

**Ingestion** Irritating to mouth, throat and stomach.

**Skin contact** No known significant effects or critical hazards.

**Eye contact** Causes serious eye irritation.

Over-exposure signs/symptoms

InhalationNo specific data.IngestionNo specific data.SkinNo specific data.

**Eyes** Adverse symptoms may include the following:

pain or irritation watering redness

# $\underline{\text{Indication of immediate medical attention and special treatment needed, if necessary}}$

Specific treatments Not available

Notes to physician No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Protection of first-aiders**No action shall be taken involving any personal risk or without suitable training. It may be dangerous to

the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)



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# Section 5. Fire-fighting measures

#### Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known.

Specific hazards arising from the

chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition

products

Decomposition products may include the following materials:

phosphorus oxides halogenated compounds metal oxide/oxides

Hazchem code Not available

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No Special precautions for fire-fighters

action shall be taken involving any personal risk or without suitable training.

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste

disposal container. Dispose of via a licensed waste disposal contractor.

Large spill Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent

entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section  $1\,$ 

for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should

be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and

can be hazardous. Do not reuse container.

Conditions for safe storage, including any incompatibilities Do not store above the following temperature: 4°C (39.2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid

environmental contamination.

# Section 8. Exposure controls/personal protection

### **Control parameters**

## Occupational exposure limits

None.

No special ventilation requirements. Good general ventilation should be sufficient to control worker Appropriate engineering controls

exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure

below any recommended or statutory limits.

**Environmental exposure controls** Emissions from ventilation or work process equipment should be checked to ensure they comply with the

requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable

#### Individual protection measures



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Hygiene measures wash hands, forearms and face thoroughly after handling chemical products, before eating,

and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that

eyewash stations and safety showers are close to the workstation location.

Respiratory protection Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk

assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times

when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates Eye protection

this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection:

chemical splash goggles.

Skin protection Personal protective equipment for the body should be selected based on the task being performed and

the risks involved and should be approved by a specialist before handling this product.

# Section 9. Physical and chemical properties

#### **Appearance**

Physical state Liquid. Colour Clear.

Odour Not available. Odour threshold Not available. рΗ Not available. Melting point Not available **Boiling point** Not available

[Product does not sustain combustion.] Flash point

**Burning rate** Not applicable. **Burning time** Not applicable. Not available. **Evaporation rate** Flammability (solid, gas) Not available Lower and upper explosive Not available

(flammable) limits

Vapour pressure Not available. Vapour density Not available. Relative density Not available.

Solubility Easily soluble in the following materials: cold water and hot water.

Solubility in water Not available. Partition coefficient: n-octanol/

water

Not available.

Not available. Auto-ignition temperature **Decomposition temperature** Not available. SADT Not available. Not available. Viscosity

Aerosol product

Type of aerosol Not applicable. Heat of combustion Not available Ignition distance Not applicable. **Enclosed space ignition - Time** Not applicable.

equivalent

Enclosed space ignition -**Deflagration density** 

Not applicable.

Flame height Not applicable. Flame duration Not applicable.



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# Section 10. Stability and reactivity

**Chemical stability** The product is stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

Incompatible materials No specific data.

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

#### Information on the likely routes of exposure

InhalationNo known significant effects or critical hazards.IngestionIrritating to mouth, throat and stomach.Skin contactNo known significant effects or critical hazards.

**Eye contact** Causes serious eye irritation.

# Symptoms related to the physical, chemical and toxicological characteristics

InhalationNo specific data.IngestionNo specific data.Skin contactNo specific data.

**Eye contact** Adverse symptoms may include the following:

pain or irritation watering redness

## Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
disodium hydrogenorthophosphate	LD50 Oral	Rat	17000 mg/kg	-

## Irritation/Corrosion

Not available.

## **Sensitisation**

Not available.

# Potential chronic health effects

General No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. No known significant effects or critical hazards. Ingestion Skin contact No known significant effects or critical hazards. Eye contact No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects No known significant effects or critical hazards.

## **Chronic toxicity**

Not available

## Carcinogenicity

Not available.

## **Mutagenicity**

Not available.

## **Teratogenicity**



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Not available

## Reproductive toxicity

Not available

#### Specific target organ toxicity

Not available.

#### **Aspiration hazard**

Not available.

## Numerical measures of toxicity

#### **Acute toxicity estimates**

RouteATE valueOral30303 mg/kg

# Section 12. Ecological information

**Ecotoxicity** No known significant effects or critical hazards.

#### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sodium chloride	Acute EC50 2430000 µg/l Fresh water Acute EC50 28.85 mg/dm3 Fresh water Acute EC50 519.6 mg/l Fresh water Acute IC50 6.87 g/L Fresh water Acute LC50 1661 mg/l Fresh water Acute LC50 1000000 µg/l Fresh water Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water	Algae - Navicula seminulum Algae - Pseudokirchneriella subcapitata Crustaceans - Cypris subglobosa Aquatic plants - Lemna minor Daphnia - Daphnia magna Fish - Morone saxatilis - Larvae Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult	96 hours 72 hours 48 hours 96 hours 48 hours 96 hours 21 days 8 weeks
disodium hydrogenorthophosphate		Daphnia - Daphnia magna	48 hours

#### Persistence/degradability

Not available.

## **Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
disodium hydrogenorthophosphate	-5.8	-	low

# Mobility in soil

**Soil/water partition coefficient (Koc)** Not available.

Other adverse effects No known significant effects or critical hazards.

# Section 13. Disposal considerations

## Disposal methods

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*
New Zealand Class	Not regulated.	-	-	-
ADG Class	Not regulated.	-	-	-
UN Class	Not regulated.	-	-	-
ADR/RID Class	Not regulated.	-	-	-
IATA Class	Not regulated.	-	-	-



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IMDG Class Not regulated. - - -

PG\*: Packing group

## Section 15. Regulatory information

New Zealand Inventory of

Chemicals (NZIoC)

All components are listed or exempted.

HSNO Approval Number HSR002596

HSNO Group StandardLaboratory Chemicals and Reagent KitsHSNO Classification6.4 - EYE IRRITATION - Category A (Irritant)Australia inventory (AICS)All components are listed or exempted.

Safety, health and environmental regulations specific for the product

No known specific national and/or regional regulations applicable to this product (including its

ingredients).

#### Section 16. Other information

### **History**

Date of printing3 March 2016Date of issue/ Date of revision03 March 2016Date of previous issueNo previous validation.

Version 1

**Key to abbreviations** ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland

Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified

by the Protocol of 1978. ("Marpol" = marine pollution)

RÍD = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

**References** Not available.

Indicates information that has changed from previously issued version.

## Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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