

# SAFETY DATA SHEET

New Zealand

Section 1. Identification

**Product name** 

Regeneration Stock 2; part of 'Biotin CAPture

Kit'

Not available.

**Catalogue Number** 28920233

Product type Liquid.

Identified uses Analytical chemistry.

Other means of identification

Laboratory chemicals Scientific research and development

Consumer use

Supplier

Cytiva Cytiva New Zealand

Amersham Place Buddle Findlay, Level 18, Pricewaterhousecooper Tower, Little Chalfont 188 Quay Street,

Buckinghamshire

Auckland, Auckland, 1010 New Zealand

HP7 9NA United Kingdom +44 1494 508000

Person who prepared the SDS:

Emergency telephone number (with hours of operation)

sds author@cytiva.com 0800 733 893

(10am - 7pm)

Section 2. Hazards identification

**HSNO Classification** ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4

SKIN CORROSION - Category 1B

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 96% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 96%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic

environment: 96%

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

**GHS label elements** 

Signal word Danger

Hazard statements Harmful if swallowed or in contact with skin.

Causes severe skin burns and eye damage.

**Precautionary statements** 

Wear protective gloves, protective clothing and eye or face protection. Do not eat, drink or smoke Prevention

when using this product. Wash thoroughly after handling

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a Response POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER or doctor.

Storage Store locked up

Disposal Dispose of contents and container in accordance with all local, regional, national and international

regulations.



#### Symbol





Other hazards which do not result in classification

None known.

## Section 3. Composition/information on ingredients

Substance/mixture Mixture Other means of identification Not available.

Identifiers Ingredient name % (w/w) 4 Sodium hydroxide CAS: 1310-73-2 EC: 215-185-5

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

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air Inhalation

and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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-tomouth resuscitation. 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 Get medical attention immediately. Call a poison center or physician. Wash out mouth with water.

Remove dentures if any. 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. Chemical burns must be treated promptly by a physician. 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.

Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap Skin contact

> and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Eye contact Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a

physician.

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

#### Potential acute health effects

Inhalation No known significant effects or critical hazards.

Ingestion Harmful if swallowed.

Skin contact Causes severe burns. Harmful in contact with skin.

Eye contact Causes serious eye damage.

### Over-exposure signs/symptoms

Inhalation No specific data.

Ingestion Adverse symptoms may include the following:

stomach pains

Skin Adverse symptoms may include the following:

pain or irritation redness

blistering may occur

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

> pain watering redness

#### Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments Not available. Notes to physician

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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear aloves.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### **Extinguishing media**

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable

chemical

Specific hazards arising from the 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:

metal oxide/oxides

Not available

Hazchem code

Special precautions for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No 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 For non-emergency personnel

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective

equipment.

For emergency responders If specialised clothing is required to deal with the spillage, take note of any information in Section 8

on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. **Environmental precautions** 

Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

### Methods and material for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

## Section 7. Handling and storage

### Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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

hygiene

Advice on general occupational 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. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

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## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name

Sodium hydroxide

**Exposure limits** 

HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023)

WES-Ceiling: 2 mg/m<sup>3</sup>.

### **Biological exposure indices**

No exposure indices known.

Appropriate engineering

controls

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants 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 levels.

#### **Individual protection measures**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking 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.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

**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.

**Body 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.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

#### Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance** 

Physical state Liquid.
Colour Colourless.
Odour Odourless.
Odour threshold Not available.
PH Not available.
Melting point/freezing point Not available.
Boiling point or initial boiling point and boiling range

Flash point Not applicable.

Burning time Not applicable.

Burning rate Not applicable.

Evaporation rate Not available.

Lower and upper explosive

(flammable) limits

**Flammability** 

Not available. Not available.

Ingredient name

Vapour pressure Not available.

Vapour Pressure at 20°C Vapour pressure at 50°C mm Hg kPa Method mm Hg kPa Method

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17.5 2.3 water

0 sodium hydroxide 0

Relative vapour density

Relative density

Solubility(ies)

Not available. Not available.

Media Result cold water Easily soluble hot water Easily soluble

Solubility in water Partition coefficient: n-octanol/

water

Not available. Not applicable.

**Auto-ignition temperature** Not applicable. **Decomposition temperature** Not available.

Not available. Viscosity

Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

Flow time (ISO 2431)

Particle characteristics

Median particle size Not applicable.

## Section 10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this product or its ingredients.

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 likely routes of exposure

Inhalation No known significant effects or critical hazards.

Ingestion Harmful if swallowed.

Skin contact Causes severe burns. Harmful in contact with skin.

Eye contact Causes serious eye damage.

#### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation No specific data.

Ingestion Adverse symptoms may include the following:

stomach pains

Skin contact Adverse symptoms may include the following:

> pain or irritation redness

blistering may occur

Eye contact Adverse symptoms may include the following:

pain watering redness

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

## **Acute toxicity**

Not available.

Conclusion/Summary[Product] Not available.

## Skin corrosion/irritation

Sodium hydroxide

Product/ingredient name

Human - Skin - Severe irritant

Result

**Duration of treatment/exposure**: 24 hours Amount/concentration applied: 10 pph

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Conclusion/Summary[Product] Not available.

#### Serious eye damage/eye irritation

Not available.

Conclusion/Summary[Product] Not available.

#### Respiratory corrosion/irritation

Not available.

Conclusion/Summary[Product] Not available.

#### Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary[Product] Not available.

Respiratory

Conclusion/Summary[Product] Not available.

#### Potential chronic health effects

General No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. 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. **Developmental effects** No known significant effects or critical hazards. Fertility effects No known significant effects or critical hazards.

**Chronic toxicity** 

Not available.

Conclusion/Summary[Product] Not available.

## Carcinogenicity

Not available.

Conclusion/Summary[Product] Not available.

## Germ cell mutagenicity

Not available.

Conclusion/Summary[Product] Not available.

## Reproductive toxicity

Not available.

Conclusion/Summary[Product] Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Regeneration Stock 2; part of 'Biotin CAPture Kit'	500	1100.0	N/A	N/A	N/A
Sodium hydroxide	500	1100	N/A	N/A	N/A

## Section 12. Ecological information

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

#### Aquatic and terrestrial toxicity

Product/ingredient name

Sodium hydroxide

Result

Acute - LC50 - Fresh water

Fish - Western mosquitofish - Gambusia affinis - Adult

125 ppm [96 hours] Effect: Mortality

Conclusion/Summary[Product] Not available.

#### Persistence/degradability

Not available.

Conclusion/Summary[Product] Not available.

#### **Bioaccumulative potential**

Not available.

### **Mobility in soil**

Soil/water partition coefficient

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 UN1824 SODIUM HYDROXIDE, SOLUTION 8

ORROSIVE

No.

IATA Class UN1824 SODIUM HYDROXIDE, SOLUTION 8 II



No.

IMDG Class UN1824 SODIUM HYDROXIDE, SOLUTION 8 II

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No.

PG\*: Packing group

Special precautions for user Transport within user's premises: always transport in closed containers that are upright and

secure. Ensure that persons transporting the product know what to do in the event of an accident or

spillage

Transport in bulk according to

**IMO** instruments

Not available.

## Section 15. Regulatory information

HSNO Approval Number HSR002596

HSNO Group Standard

Laboratory Chemicals and Reagent Kits

HSNO Classification

ACUTE TOXICITY (oral) - Category 4

ACUTE TOXICITY (dermal) - Category 4

SKIN CORROSION - Category 1B

#### **International regulations**

## Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

New ZealandAll components are listed or exempted.AustraliaAll components are listed or exempted.United StatesAll components are active or exempted.Canada inventoryAll components are listed or exempted.ChinaAll components are listed or exempted.

Japan inventory (CSCL): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

## Section 16. Other information

#### **History**

Date of printing 9 September 2025

Date of issue/ Date of revision 09 September 2025

Date of previous issue 4/19/2022 Version 6

**Key to abbreviations** ADG = Australian Dangerous Goods

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 = International Convention for the Prevention of Pollution From Ships, 1973 as modified

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

RID = 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.

Article Number 20920235-