

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078016068

N/A

# Material Safety Data Sheet



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product name:** Glucose HK liquid, GLUC2  
**Product number:** 04657527190  
**Business area:** Centralized Diagnostics  
**Product line:** Cobas

**Supplier:**  
Roche Diagnostics Corporation  
9115 Hague Road  
Indianapolis, IN 46250  
Site Phone Number: 1-800-428-5074

**Emergency telephone number:**  
CHEMTREC:  
1-800-424-9300 (U.S. or Canada)  
1-703-527-3887 (International)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Description 1:** R1 and R2 (only R2 contains the sodium sulfate anhydrous)

Components	CAS Number	Weight %	OSHA PEL:	OSHA STEL:	ACGIH TLV:	ACGIH STEL:
Sodium azide	26628-22-8	0.01-<0.1	NA	NA	NA	0.11 ppm Ceiling 0.29 mg/m <sup>3</sup> Ceiling
Sodium sulfate anhydrous	7757-82-6	1-5	NA	NA	NA	NA

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

**NFPA Ratings:** Health= 1 Flammability= 0 Reactivity= 0 Special= I

**Special Definitions:** A=Allergen CA=Carcinogen CO=Corrosive F=Flammable H=Harmful I=Irritant Ox=Oxidizer PB=Potential Biohazard  
R=Reproductive S=Sensitizer T=Toxic T+=Highly Toxic W=Water Reactive

**Principle routes of exposure:** Ingestion, inhalation, skin and/or eye contact.

**Inhalation:** May cause irritation of respiratory tract.

**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

**Skin contact:** May cause irritation in contact with skin.

**Eye contact:** Avoid contact with eyes. Contact with eyes may cause irritation.

**Sensitization or Odor threshold:** The following chemical(s) may cause sensitization, be absorbed via skin, and/or has an odor threshold for detection:

**Medical conditions aggravated by exposure:** None known

**Additional information:** None

## 4. FIRST AID MEASURES

**Inhalation:** Consult a physician. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

**Skin contact:** Rinse with plenty of water. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use

**Ingestion:** Consult a physician. Do not induce vomiting without medical advice

**Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice

**Notes to physician:** None determined

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or 'alcohol' foam

**Unusual hazards:** None known

**Special protective equipment for firefighters:** Wear self contained breathing apparatus for fire fighting if necessary

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment. Evacuate personnel to safe areas

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods for cleaning up:** Never return spills in original containers for re-use. Sweep up or vacuum (if powder) or soak up with inert absorbent material (if liquid), then place into a suitable clean, dry, closed container, and label for disposal

## 7. HANDLING AND STORAGE

**Handling:** Protect from contamination. Wear personal protective equipment

**Storage:** No special precautions required

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

**Respiratory protection:** Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow the OSHA regulation, 29CFR1910.134. Always use a NIOSH approved respirator when necessary

**Hand protection:** Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly

**Skin and body protection:** Wear appropriate body protection to prevent skin contact

**Eye protection:** Wear appropriate eye protection to prevent eye contact

**Hygiene measures:** Avoid contact with skin, eyes and clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**pH:** 7.0-7.8

**Physical state:** Liquid.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions

**Polymerization:** Not applicable

**Hazardous decomposition products:** Carbon oxides

**Materials to avoid:** Strong acids and strong bases. Strong oxidising agents

## 11. TOXICOLOGICAL INFORMATION

Components	NIOSH - Selected LD50s and LC50s:	NIOSH Pocket Guide - Target Organs:
Sodium azide	=20 mg/kg Dermal LD50 Rabbit	eyes skin CNS CVS kidneys
Sodium sulfate anhydrous	>10000 mg/kg Oral LD50 Rat	

**Inhalation:** No additional data available

**Skin:** No additional data available

**Oral:** No additional data available

**Mutagenic effects:** No data is available on the product itself

**Reproductive toxicity:** No data is available on the product itself

## 12. ECOLOGICAL INFORMATION

**Bioaccumulation:** Not determined

**Aquatic toxicity:** No data is available on the product itself

**Ecotoxicity effects:** No data is available on the product itself

**Product number:** 04657527190

**Product name:** Glucose HK liquid, GLUC2

**U.S. EPA, RCRA, CERCLA, SARA, or DGC information on persistent, bioaccumulative, and toxic chemicals (PBTs):**

The following chemicals are listed under the U.S. EPA regulations of RCRA, CERCLA, SARA, or DGC:

**13. DISPOSAL CONSIDERATIONS**

**Waste from residues / unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous

**14. TRANSPORT INFORMATION**

**Is product hazardous to ship?** No  
**DOT**

**Proper shipping name:** None

**UN Number:** Not applicable      **Hazard class:** Not applicable      **Subsidiary risk:** Not applicable      **Packing group:** Not applicable

**ICAO/IATA**

**Proper shipping name:** None

**UN Number:** Not applicable      **Hazard class:** Not applicable      **Subsidiary risk:** Not applicable      **Packing group:** Not applicable

**15. REGULATORY INFORMATION****U.S. Regulations:**

**U.S. CERCLA/SARA/TSCA Regulatory Information:** The following chemicals are listed under the following TSCA/SARA/CERCLA lists. Refer to TSCA regulation if you need a definition for acronyms that may be shown in the TSCA Inventory field in the table below

Components	CERCLA/SARA 302 RQ and TPQ (40 CFR 355, App.A)	CERCLA/SARA 304 RQ (40 CFR Table 302.4)	SARA 313 Emission reporting	TSCA Inventory
Sodium azide	=500 lb TPQ This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solution form	=454 kg final RQ	Listed	Present
Sodium sulfate anhydrous				Present

**U.S. Clean Water Act (CWA)/ California Proposition 65:** The following chemicals are listed under the CWA and/or California Proposition 65:

**Canadian Regulations:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Components	Canada - WHMIS: Classifications of Substances:
Sodium azide	D1A
Sodium sulfate anhydrous	Uncontrolled product according to WHMIS classification criteria

**16. OTHER INFORMATION**

**Reason for revision:** Not applicable

**References:** None

**Additional advice:** None

**Prepared by:** Roche Diagnostics, Health & Safety Department, MSDS Contact: 317-521-7425 or 317-521-7505

The information, data and recommendations contained herein are based upon information believed by Roche Diagnostics Operations after reasonable investigation and research, to be accurate; however, Roche Diagnostics Operations does not warrant the accuracy of this information. All materials and mixtures may present unknown hazards and should be used with caution. When necessary or appropriate, independent opinions regarding the risk of handling or exposure should be obtained from trained professionals. Roche Diagnostics Operations disclaims any warranty against patent infringement and the implied warranties of merchantability and fitness for a particular purpose. Customer's sole and exclusive remedy shall be replacement of the product or return of the product and refund of the purchase price, at Roche Diagnostics Operations's option. In no case shall Roche Diagnostics Operations be liable for incidental or consequential damages, including lost profits.

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**Product name:** Glucose HK liquid, GLUC2

**End of Safety Data Sheet**

**GLUH2**Version  
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04-25-2015Date of last issue: 09-18-2014  
Date of first issue: 10-08-2012**SECTION 1. IDENTIFICATION**

Product name : GLUH2  
Mat.-No./ Genisys-No. : 04657527190

**Manufacturer or supplier's details**

Company name of supplier : Roche Diagnostics

Address : 9115 Hague Road  
46250 Indianapolis IN

Telephone : 1-800-428-5074

Emergency telephone number:

In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or Canada)  
1-703-527-3887 (International)

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

Restrictions on use : For professional users only.

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit.

**GHS Label element**

Not a hazardous substance or mixture.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****R1 (A / B)****GHS Classification**

Not a hazardous substance or mixture.

**Hazardous components**

No hazardous ingredients

**R2 (C)****GHS Classification**

Not a hazardous substance or mixture.

**Hazardous components**

No hazardous ingredients

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**SECTION 4. FIRST AID MEASURES**

- |   |  |
|---|--|
| General advice  | : Do not leave the victim unattended.  |
| If inhaled  | : Move to fresh air.<br>If unconscious place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.   |
| In case of skin contact                                     | : If on skin, rinse well with water.   |
| In case of eye contact                                      | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>If eye irritation persists, consult a specialist.   |
| If swallowed  | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Rinse mouth with water. |
| Most important symptoms and effects, both acute and delayed | : No information available.  |
| Notes to physician  | : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.   |

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**SECTION 5. FIREFIGHTING MEASURES**

- |   |   |
|---|---|
| Suitable extinguishing media                  | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.   |
| Specific hazards during fire-fighting         | : No information available.   |
| Further information                           | : Standard procedure for chemical fires.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.  |

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- |   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Refer to protective measures listed in sections 7 and 8.                          |
| Environmental precautions   | : Local authorities should be advised if significant spillages cannot be contained. |

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Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****R1 (A / B)****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**R2 (C)****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

**Hand protection**

Material : Protective gloves

Remarks : The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses

Skin and body protection : Protective suit



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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****R1 (A / B)**

Appearance : liquid

Colour : No data available

Odour : none

Odour Threshold : No data available

pH : 7.8

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1.015 g/cm<sup>3</sup>

Solubility(ies)

Water solubility : completely miscible

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Explosive properties : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

**R2 (C)**

Appearance : liquid

Colour : No data available

Odour : none

Odour Threshold : No data available

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pH	: 7.0
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: does not flash
Evaporation rate	: No data available
Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 1.035 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	: No data available
Incompatible materials	: No data available
Hazardous decomposition products	: No data available

### SECTION 11. TOXICOLOGICAL INFORMATION

#### **R1 (A / B)**

#### **Acute toxicity**

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Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**R2 (C)****Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

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Method: Calculation method

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**SECTION 12. ECOLOGICAL INFORMATION****R1 (A / B)****Ecotoxicity****Product:**

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

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No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

**R2 (C)****Ecotoxicity****Product:**

Ecotoxicology Assessment  
Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Can be disposed as waste water, when in compliance with local regulations.

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Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION****International Regulation****IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION****R1 (A / B)****TSCA list** : Not relevant**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium azide	26628-22-8	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium azide	26628-22-8	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : No SARA Hazards**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**Clean Air Act**

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This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).  
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).  
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).  
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.  
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.  
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### Massachusetts Right To Know

sodium azide	26628-22-8	0 - 0.1 %
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### Pennsylvania Right To Know

water	7732-18-5	90 - 100 %
sodium azide	26628-22-8	0 - 0.1 %

### New Jersey Right To Know

water	7732-18-5	90 - 100 %
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### California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### The components of this product are reported in the following inventories:

REACH	: Not in compliance with the inventory
	: 2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride
	: trometamol
	: Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate), 5'5'-ester with 3-(aminocarbonyl)-1-β-d-ribofuranosylpyridinium h
	: Edetic acid disodium salt dihydrate (EDTA-2Na-2H2O)
	: Adenosine 5'-(tetrahydrogen triphosphate), disodium salt
	: MAGNESIUM(II), SULFATE, HEPTAHYDRATE
	: sodium azide
CH INV	: On the inventory, or in compliance with the inventory
TSCA	: Not On TSCA Inventory

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- DSL : Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate), 5'5'-ester with 3-(aminocarbonyl)-1-β-d-ribofuranosylpyridinium h
- DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.
- DSL : Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate), 5'5'-ester with 3-(aminocarbonyl)-1-β-d-ribofuranosylpyridinium h
- AICS : Not in compliance with the inventory
- AICS : Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate), 5'5'-ester with 3-(aminocarbonyl)-1-β-d-ribofuranosylpyridinium h
- NZIoC : On the inventory, or in compliance with the inventory
- ENCS : Not in compliance with the inventory
- ENCS : water
- ENCS : 2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride
- ENCS : Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate), 5'5'-ester with 3-(aminocarbonyl)-1-β-d-ribofuranosylpyridinium h
- ISHL : Not in compliance with the inventory
- ISHL : water
- ISHL : 2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride
- ISHL : Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate), 5'5'-ester with 3-(aminocarbonyl)-1-β-d-ribofuranosylpyridinium h
- KECI : Not in compliance with the inventory
- KECI : Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate), 5'5'-ester with 3-(aminocarbonyl)-1-β-d-ribofuranosylpyridinium h
- PICCS : Not in compliance with the inventory
- PICCS : Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate), 5'5'-ester with 3-(aminocarbonyl)-1-β-d-ribofuranosylpyridinium h
- PICCS : Adenosine 5'-(tetrahydrogen triphosphate), disodium salt
- IECSC : On the inventory, or in compliance with the inventory

## Inventories



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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

### R2 (C)

**TSCA list** : Not relevant

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium azide	26628-22-8	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium azide	26628-22-8	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

sodium hydroxide	1310-73-2	0.05 %
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

sodium hydroxide	1310-73-2	0.05 %
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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### Massachusetts Right To Know

sodium azide	26628-22-8	0 - 0.1 %
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### Pennsylvania Right To Know

water	7732-18-5	90 - 100 %
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sodium sulphate	7757-82-6	1 - 5 %
sodium azide	26628-22-8	0 - 0.1 %
sodium hydroxide	1310-73-2	0 - 0.1 %

### New Jersey Right To Know

water	7732-18-5	90 - 100 %
sodium sulphate	7757-82-6	1 - 5 %

### California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### The components of this product are reported in the following inventories:

REACH	: Not in compliance with the inventory
	: sodium sulphate
	: 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid
	: Edetic acid disodium salt dihydrate (EDTA-2Na-2H <sub>2</sub> O)
	: MAGNESIUM(II), SULFATE, HEPTAHYDRATE
	: sodium azide
	: Albumins, blood plasma, Cohn fraction V
	: sodium hydroxide
	: Kinase (phosphorylating), hexo-
	: Dehydrogenase, glucose 6-phosphate
	: Dipotassium hydrogen phosphate 3 hydrate
	: potassium dihydrogenorthophosphate
CH INV	: On the inventory, or in compliance with the inventory
TSCA	: Not On TSCA Inventory
	: Albumins, blood plasma, Cohn fraction V
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.
	: Albumins, blood plasma, Cohn fraction V
	: Kinase (phosphorylating), hexo-
	: Dehydrogenase, glucose 6-phosphate
AICS	: Not in compliance with the inventory

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	: Albumins, blood plasma, Cohn fraction V
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: Not in compliance with the inventory
	: water
	: 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid
	: Albumins, blood plasma, Cohn fraction V
	: Kinase (phosphorylating), hexo-
	: Dehydrogenase, glucose 6-phosphate
ISHL	: Not in compliance with the inventory
	: water
	: 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid
	: Albumins, blood plasma, Cohn fraction V
	: Kinase (phosphorylating), hexo-
	: Dehydrogenase, glucose 6-phosphate
KECI	: Not in compliance with the inventory
	: 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid
	: Albumins, blood plasma, Cohn fraction V
	: Kinase (phosphorylating), hexo-
PICCS	: Not in compliance with the inventory
	: Albumins, blood plasma, Cohn fraction V
	: Kinase (phosphorylating), hexo-
IECSC	: Not in compliance with the inventory
	: Kinase (phosphorylating), hexo-

## Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**R1 (A / B)**

## GHS Label element

Not a hazardous substance or mixture.

**R2 (C)**

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Roche

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### GHS Label element

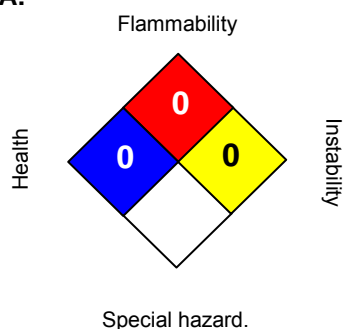
Not a hazardous substance or mixture.

## SECTION 16. OTHER INFORMATION

### Further information

#### R1 (A / B)

NFPA:



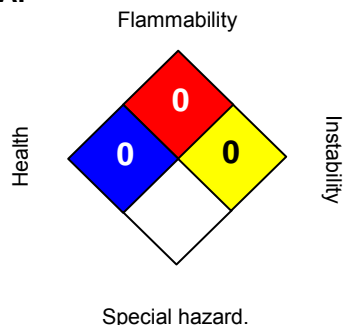
#### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

#### R2 (C)

NFPA:



#### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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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.

US / EN