

## SAFETY DATA SHEETS

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

078016001

N/A

# Material Safety Data Sheet



Authorization date: 07/19/1999  
Revision date: 08/22/2006  
Print Date: 08/30/2006  
Version: 0

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

Product name: Amylase, Total  
Product number: 1876473  
Global material number: 11876473316  
Business area: Centralized Diagnostics  
Product line: Roche/Hitachi  
Instrument type: Not applicable

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

Components	CAS Number	Weight %	OSHA PEL:	OSHA STEL:	ACGIH TLV:	ACGIH STEL:
No hazardous components >1%, >0.1% carcinogen	NONE	N/A	NA	NA	NA	NA

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

NFPA Ratings: Health= 0 Flammability= 0 Reactivity= 0

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, skin and/or eye contact

Inhalation: None

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

Skin contact: None

Eye contact: 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, CO2, 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:	Not applicable
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### 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

## 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

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
Carcinogenic effects:	

## 12. ECOLOGICAL INFORMATION

Bioaccumulation:	No data available
Aquatic toxicity:	Not applicable
Ecotoxicity effects:	No data is available on the product itself

Product number: 1876473  
Product name: Amylase, Total

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### 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

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

#### Canadian Regulations:

Canada DSL Inventory List - This product does not comply with DSL  
Canada NDSL Inventory List - This product does not comply with NDSL

### 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 Corporation, after reasonable investigation and research, to be accurate; however, Roche Diagnostics Corporation 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 Corporation 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 Corporation's option. In no case shall Roche Diagnostics Corporation be liable for incidental or consequential damages, including lost profits.

**End of Safety Data Sheet**

Product number: 1876473  
Product name: Amylase, Total

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**AMYL**Version  
1.2Revision Date:  
04-27-2016Date of last issue: 04-21-2016  
Date of first issue: 11-19-2015**SECTION 1. IDENTIFICATION**Product name : AMYL  
Product code : 11876473316**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:

In case of emergencies: : CHEMTREC

1-800-424-9300 (U.S. or Ca-  
nada)

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 elements**

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.

Substance name : Amyl EPS / AMYL2 INT / Sys1 / Sys2 R1

**Hazardous ingredients**

No hazardous ingredients

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

Not a hazardous substance or mixture.

Substance name : Amy I/ p-Amyl EPS Sys1 / Sys2 cobas C/INT / C111 R2

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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.  
If unconscious place in recovery position and seek medical advice.  
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.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
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. FIRE-FIGHTING 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.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for fire-fighters : 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.

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Environmental precautions : Local authorities should be advised if significant spillages cannot be contained.

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.

Technical measures/Precautions : See label, package insert or internal guidelines

Materials to avoid : No materials to be especially mentioned.

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

Contains no substances with occupational exposure limit values.

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

Contains no substances with occupational exposure limit values.

**Engineering measures** : No data available

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

**Hand protection**

Material : Protective gloves

Remarks : Wear appropriate protective gloves to prevent skin contact.  
Replace torn or punctured gloves promptly.

Eye protection : Safety glasses

Skin and body protection : Protective suit

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

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Appearance	: liquid
Color	: No data available
Odor	: No data available
Odor Threshold	: No data available
pH	: 7.15
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)	: Does not sustain combustion.
Flammability (liquids)	: The product is not flammable.
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: No data available
Solubility(ies)	
Water solubility	: completely miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

**R2 (C)**



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Appearance	: liquid
Color	: No data available
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
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)	: Does not sustain combustion.
Flammability (liquids)	: The product is not flammable.
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: No data available
Density	: 1.0131 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: completely miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

## SECTION 10. STABILITY AND REACTIVITY

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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**

Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**IARC**

No ingredient 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 ingredient 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 ingredient 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.

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Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

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

Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**IARC**

No ingredient 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 ingredient 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 ingredient 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)**

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No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****R2 (C)****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

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

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

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

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**SECTION 14. TRANSPORT INFORMATION****International Regulation****UNRTDG**

Not regulated as a dangerous good

**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.

**Domestic regulation**

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### 49 CFR

Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

### R1 (A / B)

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

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**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 112 (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

#### US State Regulations

##### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

##### Pennsylvania Right To Know

Water	7732-18-5	90 - 100 %
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##### New Jersey Right To Know

Water	7732-18-5	90 - 100 %
4-(2-hydroxyethyl)piperazin-1-ylthanesulphonic acid	7365-45-9	1 - 5 %

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

CH INV On the inventory, or in compliance with the inventory

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DSL	All components of this product are on the Canadian DSL
AICS	Not in compliance with the inventory 1-Hydroxy-2-pyridinethione, sodium salt
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 2-Methyl-4-isothiazolin-3-on, hydrochloride 1-Hydroxy-2-pyridinethione, sodium salt
ISHL	Not in compliance with the inventory Water 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid 2-Methyl-4-isothiazolin-3-on, hydrochloride 1-Hydroxy-2-pyridinethione, sodium salt
KECI	Not in compliance with the inventory 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid 1-Hydroxy-2-pyridinethione, sodium salt
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## R2 (C)

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

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**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 112 (40 CFR 61).

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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

### US State Regulations

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

Water	7732-18-5	90 - 100 %
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#### New Jersey Right To Know

Water	7732-18-5	90 - 100 %
Ethyliden-4-nitrophenyl-a-D-maltoheptaosid (EPS)	96597-16-9	1 - 5 %

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

CH INV	Not in compliance with the inventory Ethyliden-4-nitrophenyl-a-D-maltoheptaosid (EPS)
DSL	This product contains the following components that are not on the Canadian DSL nor NDSL. Ethyliden-4-nitrophenyl-a-D-maltoheptaosid (EPS) Sodium 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonate
AICS	Not in compliance with the inventory Ethyliden-4-nitrophenyl-a-D-maltoheptaosid (EPS) 1-Hydroxy-2-pyridinethione, sodium salt
NZIoC	On the inventory, or in compliance with the inventory
ENCS	Not in compliance with the inventory Water Ethyliden-4-nitrophenyl-a-D-maltoheptaosid (EPS) 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid Sodium 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonate 2-Methyl-4-isothiazolin-3-on, hydrochloride 1-Hydroxy-2-pyridinethione, sodium salt
ISHL	Not in compliance with the inventory Water Ethyliden-4-nitrophenyl-a-D-maltoheptaosid (EPS) 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid Sodium 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonate 2-Methyl-4-isothiazolin-3-on, hydrochloride 1-Hydroxy-2-pyridinethione, sodium salt



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KECI	Not in compliance with the inventory Ethyliden-4-nitrophenyl- $\alpha$ -D-maltoheptaosid (EPS) 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid Sodium 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonate 1-Hydroxy-2-pyridinethione, sodium salt
PICCS	Not in compliance with the inventory Ethyliden-4-nitrophenyl- $\alpha$ -D-maltoheptaosid (EPS) Sodium 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonate
IECSC	Not in compliance with the inventory Ethyliden-4-nitrophenyl- $\alpha$ -D-maltoheptaosid (EPS)

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**R1 (A / B)**
**GHS label elements**

Not a hazardous substance or mixture.

**R2 (C)**
**GHS label elements**

Not a hazardous substance or mixture.

**SECTION 16. OTHER INFORMATION**
**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-

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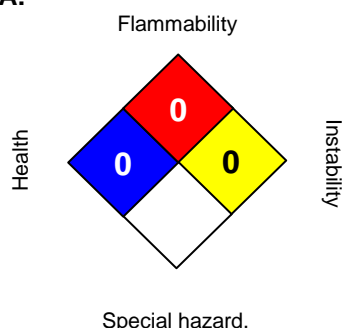
Date of last issue: 04-21-2016  
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stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### R1 (A / B)

NFPA:



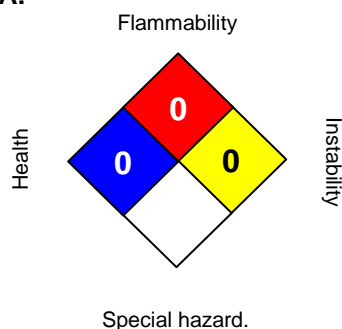
HMIS III:

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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