

## A1CD2

Version Revision Date: Date of last issue: 04-21-2016 1.2 Date of first issue: 11-20-2015

### **SECTION 1. IDENTIFICATION**

Product name : A1CD2

Product code : 04528182190

Manufacturer or supplier's details

Company name of supplier : Roche Diagnostics

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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 (Internatio-

nal)

Recommended use of the chemical and restrictions on use

Restrictions on use : For professional users only.

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### GHS classification in accordance with 29 CFR 1910.1200

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

Hazard pictograms





Signal Word : Danger

Hazard Statements : H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

H373 May cause damage to organs through prolonged or re-

peated exposure if swallowed.

Precautionary Statements : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves/ eye protection/ face protection. P285 In case of inadequate ventilation wear respiratory protec-

tion.



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### Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 + P310 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/doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

## R1 (B/C)

#### **GHS Classification**

Serious eye damage Category 1

Respiratory sensitization Category 1

Skin sensitization Category 1

Specific target organ systemic : Category 2

toxicity - repeated exposure

(Oral)

### **Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
1-Tetradecanaminium, N,N,N-trimethyl-, bromide	1119-97-7	>= 3 - < 5
(1:1)		
Edetic acid disodium salt dihydrate (EDTA-2Na-	6381-92-6	>= 1 - < 5
2H2O)		
Poly(oxy-1,2-ethanediyl), .alphadodecyl-	9002-92-0	>= 1 - < 3
.omegahydroxy-		
3(2H)-Isothiazolone, 2-methyl-, hydrochloride	26172-54-3	>= 0.1 - < 1
(1:1)		

#### **SECTION 4. FIRST AID MEASURES**

General advice Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in atten-



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dance.

Do not leave the victim unattended.

If inhaled : Call a physician or poison control center immediately.

Move to fresh air.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear. Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

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.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.



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#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec: :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Ensure adequate ventilation.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

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 : Avoid formation of aerosol.

Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

To prevent leaks or spillages from spreading, provide a suitab-

le liquid retention system.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated pla-

ce.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

Technical

measures/Precautions

: See label, package insert or internal guidelines

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## R1 (B / C)

## Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.



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### Hazardous components without workplace control parameters

Ingredients	CAS-No.
1-Tetradecanaminium, N,N,N-	1119-97-7
trimethyl-, bromide (1:1)	
Edetic acid disodium salt dihy-	6381-92-6
drate (EDTA-2Na-2H2O)	
Poly(oxy-1,2-	9002-92-0
ethanediyl), .alphadodecyl-	
.omegahydroxy-	
3(2H)-Isothiazolone, 2-methyl-,	26172-54-3
hydrochloride (1:1)	

**Engineering measures** : No data available

Personal protective equipment

Respiratory protection : In the case of vapor formation use a respirator with an appro-

ved filter.

Hand protection

Material : Protective gloves

Remarks : Wear appropriate protective gloves to prevent skin contact.

Replace torn or punctured gloves promptly.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

## R1 (B/C)

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



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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.

Self-ignition : No data available

Autoignition temperature : No data available

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

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**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Incompatible materials : No data available



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Hazardous decomposition

products

: No data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## R1 (B/C)

### **Acute toxicity**

Not classified based on available information.

#### Ingredients:

### 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (1:1):

Acute oral toxicity : LD50 Oral (Rat): 333 - 460 mg/kg

Acute inhalation toxicity : LC50 (Mouse): 1,8 mg/m3

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rabbit): ca. 2,150 mg/kg

## Edetic acid disodium salt dihydrate (EDTA-2Na-2H2O):

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg

Test substance: anhydrous substance

LD50 Oral (Rabbit): 2,300 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1 - 5 mg/l

Exposure time: 6 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403 Test substance: anhydrous substance

Acute toxicity estimate: 1.5 mg/l Test atmosphere: dust/mist Method: Expert judgment

### Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:

Acute oral toxicity : LD50 Oral (Rat): 1,000 mg/kg

### Skin corrosion/irritation

Not classified based on available information.

#### Ingredients:

## 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (1:1):

Result: Irritating to skin.

#### Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:

Result: Irritating to skin.

### 3(2H)-Isothiazolone, 2-methyl-, hydrochloride (1:1):

Result: Causes burns.



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### Serious eye damage/eye irritation

Causes serious eye damage.

#### **Ingredients:**

## 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (1:1):

Result: Risk of serious damage to eyes.

### Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:

Result: Risk of serious damage to eyes.

#### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### **Ingredients:**

### 3(2H)-Isothiazolone, 2-methyl-, hydrochloride (1:1):

Assessment: May cause sensitization by skin contact.

Assessment: May cause sensitization by inhalation.

#### Germ cell mutagenicity

Not classified based on available information.

#### **Ingredients:**

## Edetic acid disodium salt dihydrate (EDTA-2Na-2H2O):

Genotoxicity in vitro : Test Type: Ames test

Remarks: In vitro tests did not show mutagenic effects

#### 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 carcino-

gen 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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#### Ingredients:

### 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (1:1):

Routes of exposure: Inhalation Target Organs: Respiratory system

Assessment: May cause respiratory irritation.

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if swallowed.

#### Repeated dose toxicity

#### Ingredients:

## 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (1:1):

Species: Rat 75 mg/kg

Application Route: Oral Test atmosphere: dust/mist Exposure time: 21 d

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated

exposure, category 2.

#### **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

## **Ingredients:**

### 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (1:1):

Remarks: Other dangerous properties can not be excluded.

### **SECTION 12. ECOLOGICAL INFORMATION**

## R1 (B/C)

## **Ecotoxicity**

## **Ingredients:**

### 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (1:1):

Toxicity to fish LC50 (Danio rerio (zebra fish)): 1.81 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.022 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)):

> 0.00538 mg/l Exposure time: 72 h

Toxicity to microorganisms EC50 (Natural microorganism): 19 mg/l



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LC50 (Natural microorganism): 19 mg/l

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

Edetic acid disodium salt dihydrate (EDTA-2Na-2H2O):

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): ca. 320 mg/l

Exposure time: 96 h

Test substance: anhydrous substance

LC50 (Leuciscus idus (Golden orfe)): > 500 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia): > 100 mg/l

Exposure time: 24 h

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Toxicity to microorganisms : EC50 (Pseudomonas putida): 56 mg/l

Exposure time: 8 h

Test substance: anhydrous substance

**Ecotoxicology Assessment** 

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

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

Other organisms relevant to

the environment

No data available

Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 6.46 mg/l

Exposure time: 48 h

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

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

Other organisms relevant to

the environment

No data available

3(2H)-Isothiazolone, 2-methyl-, hydrochloride (1:1):

**Ecotoxicology Assessment** 

Acute aquatic toxicity : This product has no known ecotoxicological effects.



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Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### Persistence and degradability

## Ingredients:

### Edetic acid disodium salt dihydrate (EDTA-2Na-2H2O):

Biodegradability : Biodegradation: 3 %

Testing period: 30 d

Method: Directive 67/548/EEC Annex V, C.4.C.

Remarks: According to the results of tests of biodegradability

this product is not readily biodegradable.

Biochemical Oxygen De-

mand (BOD)

10 mg/g

Incubation time: 5 d

#### Bioaccumulative potential

### **Ingredients:**

### 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (1:1):

Bioaccumulation : Bioconcentration factor (BCF): 750

Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 2.2 (20 °C)

### Edetic acid disodium salt dihydrate (EDTA-2Na-2H2O):

Partition coefficient: n- : Remarks: No data available

octanol/water

### Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 220

Exposure time: 72 h

Partition coefficient: n-

octanol/water

Remarks: No data available

### 3(2H)-Isothiazolone, 2-methyl-, hydrochloride (1:1):

Partition coefficient: n- : Remarks: Not applicable

octanol/water

#### Mobility in soil

No data available

#### Other adverse effects

## **Ingredients:**

## Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:

Additional ecological infor- : No data available

mation



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#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

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 Regulations

#### **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**

## **49 CFR**

Not regulated as a dangerous good

#### **SECTION 15. REGULATORY INFORMATION**

## R1 (B / C)

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

### **CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ	Calculated product RQ
_		(lbs)	(lbs)
Sodium phosphate dibasic dihydrate	10028-24-7	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.



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SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

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 SOCMI 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 phosphate diba- 10028-24-7 1 %

sic dihydrate

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Sodium phosphate diba- 10028-24-7 1 %

sic dihydrate

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

Sodium phosphate dibasic dihydrate 10028-24-7

### Pennsylvania Right To Know

Water 7732-18-5 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (1:1) 1119-97-7 Sodium phosphate dibasic dihydrate 10028-24-7

### California Prop. 65

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

#### **California List of Hazardous Substances**

Sodium phosphate dibasic dihydrate 10028-24-7

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

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory



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KECI : On the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory

#### **TSCA list**

No substances are subject to a Significant New Use Rule.

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

## R1 (B/C)

#### **GHS** label elements

Hazard pictograms





Signal Word : Danger

Hazard Statements : H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H373 May cause damage to organs through prolonged or re-

peated exposure if swallowed.

# Precautionary Statements : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/ eye protection/ face protection. P285 In case of inadequate ventilation wear respiratory protection.

### Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 + P310 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/doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.



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#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

## **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 substance; 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

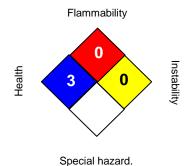
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### NFPA:



### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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The information provided in this Material 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 / Z8 / 1611