

**CINtec Wash Buffer 10X**

Version 1 . 0

Revision Date 08-14-2013

Print Date 08-14-2013

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION****1.1 Product identifier**

Commercial Product Name : CINtec Wash Buffer 10X  
Mat.-No./ Genisys-No. : 06595421001

:

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Recommended restrictions : For professional users only.  
on use

**1.3 Details of the supplier of the safety data sheet**

Company : Ventana Medical Systems  
1910 E. Innovation Park Drive  
85755 Tucson AZ

E-mail address :  
Telephone : 1-800-227-2155 or 520-877-2155  
Telefax :  
Responsible Department :  
In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or  
Canada)  
1-703-527-3887  
(International)

:

**SECTION 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
Not a hazardous substance or mixture.

**Classification (67/548/EEC, 1999/45/EC)**

Not a hazardous substance or mixture.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

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**Additional Labelling:**

EUH210 Safety data sheet available on request.

EUH208 Contains: mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 55965-84-9 May produce an allergic reaction.

**2.3 Other hazards**

No information available.

**3. Composition/information on ingredients****3.2 Mixtures**

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

**SECTION 4. FIRST AID MEASURES****4.1 Description of 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.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms : No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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**SECTION 5. FIREFIGHTING MEASURES****5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : No information available.

**5.3 Advice for firefighters**

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

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Refer to protective measures listed in sections 7 and 8.

**6.2 Environmental precautions**

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

**6.3 Methods and materials for containment and cleaning up**

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

**6.4 Reference to other sections**

Treat recovered material as described in the section "Disposal considerations".

**SECTION 7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

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

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

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : See label, package insert or internal guidelines

Advice on common storage : No materials to be especially mentioned.

Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

Specific use(s) : Laboratory chemicals

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

Eye protection : Safety glasses

Hand protection :  
Protective gloves

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.

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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.

Skin and body protection	: Protective suit
Respiratory protection	: No personal respiratory protective equipment normally required.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance	: liquid
Colour	: colourless
Odour	: odourless
pH	: 7.64
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: does not flash
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available

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Viscosity, dynamic : no data available

**9.2 Other information**

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

**SECTION 10. STABILITY AND REACTIVITY****10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Further information: Stable under recommended storage conditions., No hazards to be specially mentioned.

**10.4 Conditions to avoid**

Conditions to avoid : no data available

**10.5 Incompatible materials**

Materials to avoid : no data available

**10.6 Hazardous decomposition products**

Hazardous decomposition products : no data available

**SECTION 11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Product**

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available  
: Acute toxicity estimate: 27.27 mg/l, 4 h, vapour, Calculation method

Acute dermal toxicity : no data available

Acute toxicity (other routes of : no data available

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Skin corrosion/irritation : This information is not available.

Serious eye damage/eye irritation : This information is not available.

Aspiration toxicity : no data available

Further information : no data available

**Components:****water:**

Acute oral toxicity : LD50 Oral: &gt; 90,000 mg/kg, rat

Acute inhalation toxicity : Acute toxicity estimate: &gt; 30 mg/l, Expert judgement

Acute dermal toxicity : Acute toxicity estimate: &gt; 5,001 mg/kg, Expert judgement

Skin corrosion/irritation : This information is not available.

Serious eye damage/eye irritation : This information is not available.

Respiratory or skin sensitisation : Did not cause sensitisation on laboratory animals.

STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : No aspiration toxicity classification

**2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride:**

Acute oral toxicity : LD50 Oral: 5,900 mg/kg, rat

Acute inhalation toxicity : Acute toxicity estimate: &gt; 30 mg/l, Expert judgement

Acute dermal toxicity : Acute toxicity estimate: &gt; 5,001 mg/kg, Expert judgement

Acute toxicity (other routes of administration) : no data available

Further information : no data available

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**trometamol:**

- Acute oral toxicity : LD50 Oral: 5,900 mg/kg, rat
- Acute inhalation toxicity : Acute toxicity estimate: 20 mg/l, dust/mist, Expert judgement
- Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg, Expert judgement
- Acute toxicity (other routes of administration) : no data available
- Further information : no data available

**Glycols:**

- Acute oral toxicity : no data available
- Acute inhalation toxicity : no data available
- Acute dermal toxicity : no data available
- Acute toxicity (other routes of administration) : no data available
- Skin corrosion/irritation : This information is not available.
- Serious eye damage/eye irritation : This information is not available.
- Respiratory or skin sensitisation : Result: no data available

STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : no data available

Further information : no data available

**Modified alkyl carboxylate:**

- Acute oral toxicity : no data available
- Acute inhalation toxicity : no data available
- Acute dermal toxicity : no data available
- Acute toxicity (other routes of administration) : no data available



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Skin corrosion/irritation : This information is not available.

Serious eye damage/eye irritation : This information is not available.

Respiratory or skin sensitisation : Result: no data available

STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : no data available

Further information : no data available

**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):**

Acute oral toxicity : LD50 Oral: 53 mg/kg, rat

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l, vapour, Expert judgement

Acute dermal toxicity : Acute toxicity estimate: 300 mg/kg, Expert judgement

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation : Result: Causes burns.

Serious eye damage/eye irritation : May cause irreversible eye damage.

Respiratory or skin sensitisation : Classification: May cause sensitisation by skin contact.  
May cause an allergic skin reaction.

Acute effects (Assessment) : Toxic if swallowed, in contact with skin or if inhaled

Further information : no data available

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**SECTION 12. ECOLOGICAL INFORMATION****12.1 Toxicity****Product:**

Toxicity to fish : no data available  
Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Toxicity to bacteria : no data available

**Ecotoxicology Assessment**

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

Other organisms relevant to the environment : no data available

**water:**

Toxicity to fish : LC50: > 100 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Toxicity to bacteria : no data available

Toxicity to fish (Chronic toxicity) : > 1 mg/l

**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

**2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride:**

Toxicity to fish : LC50: > 100 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50: > 100 mg/l, 48 h, Daphnia magna (Water flea)

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Toxicity to algae : no data available

Toxicity to bacteria : EC50: &gt; 1,000 mg/l, 3 h, Bacteria

Toxicity to fish (Chronic toxicity) : &gt; 1 mg/l

**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

**trometamol:**

Toxicity to fish : LC50: &gt; 100 mg/l, 96 h, Fish

Toxicity to daphnia and other aquatic invertebrates : EC50: &gt; 100 mg/l, 48 h, Daphnia magna (Water flea)

Toxicity to algae : no data available

Toxicity to bacteria : no data available

**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

**Glycols:**

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Toxicity to bacteria : no data available

**Ecotoxicology Assessment**

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

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Other organisms relevant to the environment : no data available

**Modified alkyl carboxylate:**

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Toxicity to bacteria : no data available

**Ecotoxicology Assessment**

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

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

**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):**

Toxicity to fish : LC50: 0.36 mg/l, 96 h, Fish

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Toxicity to bacteria : no data available

**Ecotoxicology Assessment**

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

Other organisms relevant to the environment : no data available

**12.2 Persistence and degradability****Product:**

Biodegradability : no data available

**Components:****water:**

Biodegradability : no data available

**2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride:**

Biodegradability : no data available  
**trometamol:**

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Biodegradability : no data available

**Glycols:**

Biodegradability : no data available

**Modified alkyl carboxylate:**

Biodegradability : no data available

**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):**

Biodegradability : no data available

**12.3 Bioaccumulative potential****Product:**

Bioaccumulation : no data available

**water:**

Bioaccumulation : no data available

**2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride:**

Bioaccumulation : no data available

**trometamol:**

Bioaccumulation : no data available

**Glycols:**

Bioaccumulation : no data available

**Modified alkyl carboxylate:**

Bioaccumulation : no data available

**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):**

Bioaccumulation : no data available

**12.4 Mobility in soil****Product:**

Mobility : no data available

Distribution among : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical : no data available

removability

**water:**

Mobility : no data available

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Distribution among  
environmental compartments : no data available

Environmental fate and  
pathways : no data available

Physico-chemical  
removability : no data available

**2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride:**

Mobility : no data available

Distribution among  
environmental compartments : no data available

Environmental fate and  
pathways : no data available

Physico-chemical  
removability : no data available

**trometamol:**

Mobility : no data available

Distribution among  
environmental compartments : no data available

Environmental fate and  
pathways : no data available

Physico-chemical  
removability : no data available

**Glycols:**

Mobility : no data available

Distribution among  
environmental compartments : no data available

Environmental fate and  
pathways : no data available

Physico-chemical  
removability : no data available

**Modified alkyl carboxylate:**

Mobility : no data available

Distribution among : no data available

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environmental compartments

Environmental fate and pathways : no data available

Physico-chemical removability : no data available

**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):**

Mobility : no data available

Distribution among environmental compartments : no data available

Environmental fate and pathways : no data available

Physico-chemical removability : no data available

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

**water:**

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

**2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride:**

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

**trometamol:**

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

**Glycols:**

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not

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considered to be very persistent nor very bioaccumulating (vPvB).

### Modified alkyl carboxylate:

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

### mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

Assessment : Non-classified PBT substance, Non-classified vPvB substance

## 12.6 Other adverse effects

### Product:

Biochemical Oxygen Demand (BOD) : no data available

Dissolved organic carbon (DOC) : no data available

Chemical Oxygen Demand (COD) : no data available

Adsorbed organic bound halogens (AOX) : no data available

Additional ecological information : no data available

### **water:**

Biochemical Oxygen Demand (BOD) : no data available

Dissolved organic carbon (DOC) : no data available

Chemical Oxygen Demand (COD) : no data available

Adsorbed organic bound halogens (AOX) : no data available

### **2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride:**

Biochemical Oxygen Demand (BOD) : no data available

Dissolved organic carbon (DOC) : no data available



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Chemical Oxygen Demand (COD) : no data available

Adsorbed organic bound halogens (AOX) : no data available

**trometamol:**

Biochemical Oxygen Demand (BOD) : no data available

Dissolved organic carbon (DOC) : no data available

Chemical Oxygen Demand (COD) : no data available

Adsorbed organic bound halogens (AOX) : no data available

**Glycols:**

Biochemical Oxygen Demand (BOD) : no data available

Dissolved organic carbon (DOC) : no data available

Chemical Oxygen Demand (COD) : no data available

Adsorbed organic bound halogens (AOX) : no data available

**Modified alkyl carboxylate:**

Biochemical Oxygen Demand (BOD) : no data available

Dissolved organic carbon (DOC) : no data available

Chemical Oxygen Demand (COD) : no data available

Adsorbed organic bound halogens (AOX) : no data available

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., May cause long lasting harmful effects to aquatic life.

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**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):**

Biochemical Oxygen Demand (BOD) : no data available

Dissolved organic carbon (DOC) : no data available

Chemical Oxygen Demand (COD) : no data available

Adsorbed organic bound halogens (AOX) : no data available

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.

**SECTION 13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Product : 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.

**SECTION 14. TRANSPORT INFORMATION**

**DOT**  
Not dangerous goods

**IATA**  
Not dangerous goods

**IMDG**  
Not dangerous goods

**SECTION 15. REGULATORY INFORMATION**

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**OSHA Hazards** : No OSHA Hazards**WHMIS Classification** : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**CERCLA Reportable Quantity****SARA 302 Reportable Quantity**

Product : This material does not contain any components with a SARA 302 RQ.

**SARA 311/312 Hazards** : No SARA Hazards**EPCRA - Emergency Planning and Community Right-to-Know Act**

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

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

**Clean Air Act**

**Ozone-Depletion Potential** : 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 chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

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.

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

**The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489):**

water

90 - 100 %

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2-amino-2-  
(hydroxymethyl)propane-  
1,3-diol hydrochloride

5 - 10 %

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

**The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I  
Intermediate or Final VOC's (40 CFR 60.489):**

water

90 - 100 %

2-amino-2-  
(hydroxymethyl)propane-  
1,3-diol hydrochloride

5 - 10 %

**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.

**US State Regulations****California Prop 65  
Components**

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

**16. Other information****Further information**

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.



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