


## SAFETY DATA SHEET

### Section 1: Product and Company Identification

- 1.1 Product name** **Ethanol R1 Reagent**  
**Substance/mixture** mixture  
**CAS #** mixture  
**Kit number** C701-01, C701-0A, C701-0B
- 1.2 Recommended product use**  
**Mixture's intended use** For research use only.  
**Product restrictions** None known
- 1.3 Details of the supplier of the safety data sheet**  
**Manufacturer information**  
**Corporate Headquarters** Catachem, Inc.  
353 Christian Street Oxford, CT 06478  
United States of America  
www.catacheminc.com  
**Telephone** Phone: +1 (203) 262-0330  
**Email** catachem@catacheminc.com  
**Distributor information**  
**Distributor Headquarters** Nuuchem Diagnostics Ltd.  
18 Killuney Rd. Armagh, N. Ireland  
United Kingdom  
**Telephone** +44 7778 925522  
**Email** Trevor.templeton@nuuchem.com
- 1.4 Emergency Telephone**  
**Emergency Phone #** +1 (203) 232-1979

### Section 2: Hazards Identification

- 2.1 Substance or mixture classification**  
**Physical state** Liquid  
**Appearance** Clear/colorless solution  
**Emergency overview** May cause skin and/or eye irritation. Wear protective gloves/glasses at all times while handling. Do not inhale or ingest in any way. Do not allow to enter drains or sewers.
- 2.2 Label Elements**  
**Signal word** Warning  
**Hazard Pictogram** 
- Hazardous substances** 1,3-Diamino-2-propanol, EDTA Disodium salt, sodium azide, Tergitol NP-40.
- OSHA regulatory status** This product is hazardous according to OSHA 29CFR 1910.1200.
- 2.3 Potential health effects**  
**Routes of exposure** Skin contact. Eye contact.

<b>Eyes</b>	May cause eye irritation or serious eye damage.
<b>Skin</b>	May cause skin irritation or skin burns.
<b>Inhalation</b>	In high concentrations, vapors may be irritating to the upper respiratory tract leading to chemical pneumonitis and pulmonary edema.
<b>Ingestion</b>	If swallowed, may cause discomfort and lead to gastrointestinal tract burns.
<b>Target organs</b>	Eyes, lungs and skin.
<b>Chronic effects</b>	Repeated skin contact may cause dermatitis.
<b>Signs and symptoms</b>	Direct contact with skin and eyes may cause irritation.

#### 2.4 Potential environmental effects

The product components are not classified as environmentally hazardous. However, this does not eliminate the possibility that large or frequent spills can have a harmful or damaging impact on the environment.

### Section 3: Composition / Information on Ingredients

#### Components:

Chemical name	CAS-No.	Classification	Concentration (% w/w)
1,3-Diamino-2-propanol	616-29-5	Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335	<2.0%
EDTA Disodium Salt	139-33-3	Acute toxicity, Inhalation (Category 4), H332 Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Respiratory Tract, H373	<0.20%
Sodium Azide	26628-22-8	Acute toxicity, Oral (Category 2), H300 Acute toxicity, Inhalation (Category 2), H330 Acute toxicity, Dermal (Category 1), H310 Specific target organ toxicity - repeated exposure, Oral (Category 2), Brain, H373 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410	<0.3%
Tergitol NP-40	9036-19-5	Acute toxicity, Oral (Category 4), H302 Acute	<0.3%

		toxicity, Inhalation (Category 4), H332 Serious eye damage (Category 1), H318 Short-term (acute) aquatic hazard (Category 2), H401 Long-term (chronic) aquatic hazard (Category 2), H411	
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## Section 4: First Aid Measures

### 4.1 Description of First aid measures

<b>Eye contact</b>	In case of eye contact, immediately flush eyes with fresh water for at least 15 minutes while holding eyelids open. Remove contact lenses immediately if worn by the affected person. Pursue medical treatment if irritation persists.
<b>Skin contact</b>	In case of skin contact, remove any or all of contaminated clothing, while rinsing the affected skin with large amounts of water. Pursue medical attention if irritation develops and persists.
<b>Inhalation</b>	In case of inhalation, move the affected person to fresh air. Call a physician if symptoms develop or persist.
<b>Ingestion</b>	Do NOT induce vomiting. In case of ingestion, make the affected person either drink some water or rinse out their mouth. If any other symptoms persist, contact a medical professional or a poison control center.
<b>Notes to physician</b>	Provide general supportive measures and treat symptomatically.
<b>General advice</b>	If you feel unwell, seek medical advice.

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

<b>Eye Contact</b>	Causes serious eye damage
<b>Skin contact</b>	Causes skin irritation
<b>Inhalation</b>	Causes corrosion of the breathing system
<b>Ingestion</b>	Causes corrosion of the digestion system

## Section 5: Fire Fighting Measures

**5.1 Flammable properties** This product is not flammable.

### 5.2 Extinguishing media

#### Suitable extinguishing media

Extinguish with water spray, carbon dioxide (CO<sub>2</sub>), dry chemical or material appropriate for the surrounding fire.

#### Unsuitable extinguishing media

No limitations are given.

### 5.3 Protection of firefighters

#### Specific hazards arising from the chemical

Carbon oxides  
Sulfur oxides  
Nitrogen oxides (NO<sub>x</sub>)

Sodium oxides

### Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### Firefighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Avoid contaminating surface water with fire extinguishing water.

### Hazardous combustion Products

Hazardous combustion gases or vapors may develop in the event of fire.

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## Section 6: Accidental Release Measures

- 6.1 Personal precautions** Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- 6.2 Environmental precautions** Avoid contamination to enter drains, sewers or watercourses.
- 6.3 Methods for containment and cleaning up**  
Absorb spillage with non-combustible, absorbent material such as sand, diatomaceous earth, vermiculite or other inert material. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.
- 6.4 Other information** Clean up in accordance with all applicable regulations.

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## Section 7: Handling and Storage

- 7.1 Safe Handling** Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Handle and open container with care.
- Hygiene measures** Wash exposed skin thoroughly after handling.
- 7.2 Storage** Store at 2-8°C (35-46°F). Store in a closed container away from incompatible materials.

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## Section 8: Exposure Controls / Personal Protection

- 8.1 Occupational exposure limits**  
No exposure limits noted for ingredient(s).
- Exposure guidelines** Follow standard monitoring procedures.
- Engineering controls** Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Provide easy access to water supply and eye wash facilities.
- 8.2 Personal protective equipment**
- Eye / face protection** Wear appropriate safety glasses, goggles or face shields.
- Skin protection** Wear lab coat or other protective garments. Wear protective gloves. Remove any contaminated clothing promptly.
- Respiratory protection** Under normal conditions, respirator is not required.
- General hygiene considerations**  
Handle in accordance with good industrial hygiene and safety practice.
- Other information** Do NOT eat, drink or smoke during use.



<b>Mutagenicity</b>	Not classified.
<b>Reproductive effects</b>	Not classified.
<b>Symptoms and target organs</b>	Direct contact with skin and eyes may cause irritation.
<b>Additional information</b>	No other specific acute or chronic health impact noted.

## Section 12: Ecological Information

### 12.1 Toxicity

<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>Environmental effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### 12.2 Persistence and degradability

No data is available on the degradability of this product.

### 12.3 Bioaccumulation/Accumulation

No data available.

### 12.4 Mobility in environmental media

The product is completely soluble in water.

## Section 13: Disposal Considerations

### 13.1 Disposal methods

<b>Disposal instructions</b>	Contaminated instruments and surfaces should be disinfected in accordance with your employer's chemical-specific and universal/standard precautions.
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#### **Waste from residues / unused products**

Dispose in accordance with all applicable local and national regulations. Avoid releasing unused products into drainage systems and/or into the environment.

<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
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## Section 14: Transport Information

<b>DOT</b>	Not regulated as a hazardous material by DOT.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.
<b>TDG</b>	Not regulated as dangerous goods.

## Section 15: Regulatory Information

**US federal regulations** This product is hazardous according to OSHA 29CFR 1910.1200.

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpart. D)**

Not regulated.

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

#### **CERCLA (Superfund) reportable quantity (lb.) (40 CFR 302.4)**

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance (40 CFR 355, Appendix A) Section 311/312 (40 CFR370)** No

### Drug Enforcement

#### Administration (DEA) (21 CFR

**1308.11-15)** Not controlled

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**WHMIS status** Non-controlled

#### Inventory status

##### Country(s) or region Inventory name On inventory (yes/no)\*

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**  
Not listed.

**US. Massachusetts RTK - Substance List**  
Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act**  
Not regulated.

## US. Pennsylvania RTK - Hazardous Substances

Not regulated.

**Mexico regulations** This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

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### Section 16: Other Information

**Recommended restrictions** Use in accordance with supplier's recommendations.

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings** Health: 0  
Flammability: 0  
Physical hazard: 0

**NFPA ratings** Health: 0  
Flammability: 0  
Instability: 0

**Disclaimer** The above information is believed to be correct, but does not purport to be all inclusive and should be used only as a guide. Catachem Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.