

Safety Data Sheet File version: 1

Bis-tris/Hydrochloric acid, 1M, pH 8.0 SDS Date: 09 Dec 2016

# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 1M Bis-tris/Hydrochloric acid pH 8.0

SYNONYMS: Bis(2-hydroxyethyl)amino-tris(hydroxymethyl)methane

2-Bis(2-hydroxyethyl)amino-2-(hydroxymethyl)-1,3-propanediol

2,2-Bis(hydroxymethyl)-2,2',2"-nitrilotriethanol

PRODUCT CODES: 1008139

1008140

MANUFACTURER: Rigaku Reagents
ADDRESS: 9009 New Trails Drive
The Woodlands, TX 77381

USA

PHONE: +1 (281) 362-2300

EMAIL: ReagentOrders@Rigaku.com

CHEMICAL NAME: 2-[Bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol

CHEMICAL FORMULA: C<sub>8</sub>H<sub>19</sub>NO<sub>5</sub>

PREPARED BY: Rigaku Reagents

**SECTION 1 NOTES:** 

#### **SECTION 2: HAZARDS IDENTIFICATION**

## **EMERGENCY OVERVIEW:**

**OSHA HAZARDS: Irritant** 

## GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS



# Signal word: Warning Hazard statement(s):

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

#### Precautionary statement(s):

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 Specific treatment (see supplemental first aid instructions on this label).

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

## **POTENTIAL HEALTH EFFECTS:**

EYES: Causes eye irritation.

SKIN: May be harmful if absorbed through skin. Causes skin burns.

INGESTION: May be harmful if swallowed.



Safety Data Sheet File version: 1

Bis-tris/Hydrochloric acid, 1M, pH 8.0

SDS Date: 09 Dec 2016

**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation.

**SECTION 2 NOTES:** 

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

INGREDIENTS: 2-[Bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol, Hydrochloric acid, De-ionized water

2-[BIS(2-HYDROXYETHYL)AMINO]-2-(HYDROXYMETHYL)PROPANE-1,3-DIOL:

CAS NO. <u>% WT</u> <u>% VOL</u>

6976-37-0 19.8-22.0

**HYDROCHLORIC ACID:** 

<u>CAS NO.</u> <u>% WT</u> <u>% VOI</u> <2

**SECTION 3 NOTES:** 

## **SECTION 4: FIRST AID MEASURES**

EYES: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

SKIN: Wash off with soap and plenty of water. Consult a physician.

INGESTION: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

INHALATION: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**SECTION 4 NOTES:** 

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

#### **AUTOIGNITION TEMPERATURE:**

F: No data available

C: No data available

NFPA HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

**HMIS HAZARD CLASSIFICATION** 

HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

**EXTINGUISHING MEDIA:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides

**SECTION 5 NOTES:** 

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

**ENVIRONMENTAL PRECAUTIONS:** Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Keep in suitable, closed containers for disposal.

**SECTION 6 NOTES:** 



Safety Data Sheet

Bis-tris/Hydrochloric acid, 1M, pH 8.0

File version: 1

SDS Date: 09 Dec 2016

#### **SECTION 7: HANDLING AND STORAGE**

**HANDLING AND STORAGE:** Avoid contact with skin and eyes. Provide appropriate exhaust ventilation. Normal measures for preventive fire protection. Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

#### **SECTION 7 NOTES:**

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

EYE PROTECTION: Safety glasses with side-shields conforming to EN166.

**SKIN PROTECTION:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## **SECTION 8 NOTES:**

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

APPEARANCE: clear, colorless

PHYSICAL STATE: liquid, clear

pH AS SUPPLIED:  $8.0 \pm 0.2$ 

**BOILING POINT:** 

F: No data available C: No data available

**FREEZING POINT:** 

F: No data availableC: No data available

VAPOR PRESSURE (mmHg): No data available

0

F: No data available C: No data available

VAPOR DENSITY (AIR = 1): No data available

SPECIFIC GRAVITY (H2O = 1): No data available

**EVAPORATION RATE:** No data available

SOLUBILITY IN WATER: No data available

VISCOSITY: No data available

@



SDS Date: 09 Dec 2016

# Safety Data Sheet

File version: 1

Bis-tris/Hydrochloric acid, 1M, pH 8.0

F: No data available C: No data available

**SECTION 9 NOTES:** 

#### **SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID (STABILITY): No data available

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx). Other decomposition products - no data available.

**SECTION 10 NOTES:** 

## **SECTION 11: TOXICOLOGICAL INFORMATION**

## **ACUTE TOXICITY:**

ORAL LD50: No data available INHALATION LC50: No data available **DERMAL LD50:** No data available

SKIN CORROSION/IRRITATION: No data available

SERIOUS EYE DAMAGE/EYE IRRITATION: No data available

RESPIRATORY OR SKIN SENSITIZATION: No data available

**GERM CELL MUTAGENICITY:** No data available

## **CARCINOGENICITY:**

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

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

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

OSHA.

REPRODUCTIVE TOXICITY: No data available

**SECTION 11 NOTES:** 

# **SECTION 12: ECOLOGICAL INFORMATION**

#### **TOXICITY**

No data available

#### PERSISTENCE AND DEGRADABILITY

No data available

## **BIOACCUMULATIVE POTENTIAL**

No data available

#### **MOBILITY IN SOIL**

No data available

#### PBT AND vPvB ASSESSMENT

No data available



File version: 1

Safety Data Sheet

Bis-tris/Hydrochloric acid, 1M, pH 8.0 SDS Date: 09 Dec 2016

**SECTION 12 NOTES:** 

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

**PRODUCT:** Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

CONTAMINATED PACKAGING: Dispose of as unused product.

## **SECTION 14: TRANSPORT INFORMATION**

#### **U.S. DEPARTMENT OF TRANSPORTATION**

Not dangerous goods

#### **WATER TRANSPORTATION**

Not dangerous goods

## **AIR TRANSPORTATION**

Not dangerous goods

**SECTION 14 NOTES:** 

## **SECTION 15: REGULATORY INFORMATION**

**OSHA HAZARDS:** Irritant.

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

<u>SARA 313 COMPONENTS:</u> 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 311/312 HAZARDS: Acute health hazard

## **MASSACHUSETTS RIGHT TO KNOW COMPONENTS:**

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

## PENNSYLVANIA RIGHT TO KNOW COMPONENTS:

	<u>CA3-NO.</u>
2-[Bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol	6976-37-0
Hydrochloric acid	7647-01-0
Water	7732-18-5

## **NEW JERSEY RIGHT TO KNOW COMPONENTS:**

	<u>CAS-No.</u>
2-[Bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol	6976-37-0
Hydrochloric acid	7647-01-0
Water	7732-18-5

**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.

## **SECTION 15 NOTES:**

## **SECTION 16: OTHER INFORMATION**

**DISCLAIMER:** The above information is believed to be correct but does not necessarily include all information and should be used only as a guide. The information in this document is based on our current knowledge and applies to the product with regard to appropriate safety precautions. This document



# Safety Data Sheet

Bis-tris/Hydrochloric acid, 1M, pH 8.0

SDS Date: 09 Dec 2016

File version: 1

does not represent any guarantee of the properties of the product. Rigaku Reagents will not be held liable for any damage resulting from handling or contact with the above product.