Safety Data Sheet

According to Regulation (EC) No 1907/2006 Revision Date: 03/23/2020 Version: 1.4 Date Printed:

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

SECT	ION 1: Identification of t	the substance/mixture and of the company/undertaking		
1.1	Product identifiers			
	Product Name	: 1.0 M BIS-TRIS pH 5.5		
	Product Number	: HR2-781		
	REACH No.	: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.		
	CAS Number	: 6976-37-0		
1.2	Relevant identified uses of	elevant identified uses of the substance or mixture and uses advised against		
	Identified uses	: Laboratory chemicals, Manufacture of substances.		
1.3	Details of the supplier of the	e Safety Data Sheet		
	Company	: Hampton Research		
		34 Journey		
		Aliso Viejo, CA 92656-3317		
		United States		
	Telephone	: 949 425 1321 Telephone technical support is available 8:00 a.m. to 4:30 p.m. USA Pacific Standard Time.		
	Fax	: 949 425 1611 Fax Technical Support is available 24 hours a day.		
	e-mail	: tech@hrmail.com e-mail Technical Support is available 24 hours a day.		
1.4	4 Emergency telephone number			
	Emergency phone	: 949 425 1321		
	For CHEMTREC Assistance	: 800 424 9300		
	For CHEMTREC Assistance	: 703 527 3887 (International)		
SECT	ION 2: Hazards Identific	ation		
2.1	Classification of the substa	nce or mixture		
	Classification according to	Regulation (EC) No 1272/2008		
	Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315			
	Eye irritation (Category 2), H3			
		single exposure (Category 3), H335		
	For the full text of the H-State	ments mentioned in this Section, see Section 16.		
	-	EU Directives 67/548/EEC or 1999/45/EC		
	Xi Irritant	R36/37/38		

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(CONTINUED) - SECTION 2: Hazards Identification

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

	\mathbf{v}
Signal word	: Warning
Hazard statement(s)	
H315	: Causes skin irritation.
H319	: Causes serious eye irritation.
H335	: May cause respiratory irritation.
Precautionary statement(s) P261 P305 + P351 + P338	 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	: none

2.3 Other hazards - none

SECTION 3: Composition/Information on Ingredients

3.1 Substances

Synonym	 2,2-Bis(hydroxymethyl)-2,2',2"-nitrilotriethanol, 2-Bis(2-hydroxyethyl)amino-2-(hydroxymethyl)-1,3-propanediol, Bis(2-hydroxyethyl)amino-tris(hydroxymethyl)methane
Formula	: C ₈ H ₁₉ NO ₅
Molecular Weight	: 209.24
CAS Number	: 6976-37-0
EC Number	: 230-237-7

RTECS	Merck	Beilstein	SARA	MDL #	PubChem Substance ID
N/A	N/A	2205275	No	MFCD00002853	N/A

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration	
2-[Bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol				
CAS-No. EC-No.	6976-37-0 230-237-7	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335	<= 100 %	

SECTION 3: Composition/Information on Ingredients

Component Classification Concentration				
2-[Bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol				
CAS-No. EC-No.	6976-37-0 230-237-7	Xi, R36/37/38	<= 100 %	

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

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

In case of skin contact

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

In case of eye contact

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

If swallowed

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

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. The most important known symptoms and effects are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NOx)

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further Information

no data available

(CONTINUED) - SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and Storage

7.1 Personal Precautions

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection. For precautions see section 2.2. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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.

(CONTINUED) - SECTION 8: Exposure Controls/Personal Protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril[®] (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril[®] (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Powder	Color: White
b)	Odor	no data available	
c)	Odor Threshold	no data available	
d)	рН	no data available	
e)	Melting point/freezing point	102 - 105°C	
f)	Initial boiling point and boiling range	no data available	
g)	Flash point	no data available	
h)	Evaporation rate	no data available	

(CONTINUED) - SECTION 9: Physical and Chemical Properties

i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapor pressure	< 0.01 mm Hg (20°C) 1 mm Hg (795°C)
I)	Vapor density	no data available
m)	Relative density	no data available
n)	Water solubility	no data available
o)	Partition coefficient: noctanol/water	no data available
p)	Autoignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available
Oth	er safety information	
Sur	face tension	no data available
Rela	ative vapour density	no data available

SECTION 10: Stability and Reactivity

10.1 Reactivity

9.2

no data available

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid no data available

10.5 Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available In the event of fire: see section 5

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin irritation / corrosion

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Chronic exposure

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.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional information

RTECS: Not data available

SECTION 12: Ecological Information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

(CONTINUED) - SECTION 12: Ecological Information

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

no data available

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transportation Information

14.1	UN number ADR/RID: -		IMDG: -	IATA: -
14.2	UN proper s ADR/RID: IMDG: IATA:	shipping name Not dangerous goo Not dangerous goo Not dangerous goo	ods	
14.3	Transport h ADR/RID: -	azard class(es)	IMDG: -	IATA: -
14.4	Packaging (ADR/RID: -	yroup	IMDG: -	IATA: -
14.5	Environmer ADR/RID: n		IMDG Marine pollutant: no	IATA: no
14.6	Special pre no data avai	cautions for user		

SECTION 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other Information

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit. E	ye irritation
H315 C	Causes skin irritation.
H319 C	Causes serious eye irritation.
H335 N	lay cause respiratory irritation.
Skin Irrit. S	kin irritation
STOT SE S	pecific target organ toxicity - single exposure

Full text of R-phrases referred to under sections 2 and 3

Xi	Irritant
R36/37/38	Irritating to eyes, respiratory system and skin.

DISCLAIMER

For research use only. Not for drug, household, or other use.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of this product. Hampton Research Corp., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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