

# Safety Data Sheet

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision date: 13.08.2015

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## SECTION 1: Identification

### Product identifier

Trade name/designation:	1M TRIS pH 8.0
Product No.:	BDH7729
Substance name:	
CAS No.:	77-86-1
INDEX No.:	000-000-00-0
REACH registration No.:	Not yet communicated down the supply chain.
Other means of identification:	

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: General chemical reagent

### Details of the supplier of the safety data sheet

*United States of America*

#### **VWR International LLC**

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Telefax	+1-610-728-2103
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#### **Emergency telephone**

Telephone +1-800-424-9300 (Chemtrec, 24 hrs/day, 7 days/week, USA)

## Canada

### VWR International Co.

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### Emergency telephone

Telephone +1-613-996-6666 (Canutec, 24 hrs/day, 7 days/week, Canada)

## SECTION 2: Hazards identification

### Classification of the substance or mixture

#### Classification according GHS

Hazard classes and hazard categories	Hazard statements
Eye irritation, category 2	H319
Specific target organ toxicity (single exposure), category 3, vascular	H335
Skin irritation, category 2	H315

#### Classification according to Directive 67/548/EEC or 1999/45/EC

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### Label elements

#### Labelling according GHS

Hazard pictograms



Signal word: Warning

Hazard statements	
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H315	Causes skin irritation.

Precautionary statements	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P304+P340	IF INHALED: Remove person to fresh air and keep 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.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/...

### Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols

R-phrases	

S-phrases	

Other hazards

SVHC No

### SECTION 3: Composition / information on ingredients

#### Hazardous ingredients Classification according to the OSHA Hazard Communication Standard 29 CFR 1910.1200

Substance name	Concentration	Product identifier	Hazard classes and hazard categories
Tris(hydroxymethyl)aminomethane (TRIS, Trometamol)	10-30%	CAS No.: 77-86-1 EC No.: 201-064-4 REACH No.: Not yet communicated down the supply chain.	Eye irritation, category 2 - H319 Specific target organ toxicity (single exposure), category 3, vascular - H335 Skin irritation, category 2 - H315

#### Hazardous ingredients Classification according to 67/548/EEC

Substance name	Concentration	Product identifier	Hazard classes and hazard categories
Tris(hydroxymethyl)aminomethane (TRIS, Trometamol)	10-30%	CAS No.: 77-86-1 EC No.: 201-064-4 REACH No.: Not yet communicated down the supply chain.	Xn, Harmful, R22 Xi, Irritant, R36/38

### SECTION 4: First aid measures

#### General information

IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

#### After inhalation

Call a POISON CENTRE/doctor/.... Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

### **In case of skin contact**

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

### **After eye contact**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

### **In case of ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

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

no data available

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

no data available

### **Self-protection of the first aider**

First aider: Pay attention to self-protection!

### **Information to physician**

no data available

## **SECTION 5: Firefighting measures**

### **Extinguishing media**

#### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

#### **Extinguishing media which must not be used for safety reasons**

no data available

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

In case of fire may be liberated: Pyrolysis products, toxic

### **Advice for firefighters**

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

### **Additional information**

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

In case of major fire and large quantities: Remove persons to safety. Use personal protection equipment. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so.

### **Environmental precautions**

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided. Ensure waste is collected and contained.

### **Methods and material for containment and cleaning up**

Spilled product must never be returned to the original container for recycling. Clean contaminated objects and areas thoroughly observing environmental regulations. Collect in closed and suitable containers for disposal.

### Additional information

Clear spills immediately.

## SECTION 7: Handling and storage

### Precautions for safe handling

All work processes must always be designed so that the following is as low as possible: Inhalation skin contact Eye contact Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

### Conditions for safe storage, including any incompatibilities

storage temperature:

Storage class:

Keep in a cool, well-ventilated place. Keep/Store only in original container.

### Specific end use(s)

no data available

## SECTION 8: Exposure controls/personal protection

### Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Personal protection equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

##### *Eye/face protection*

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

Recommendation: VWR 111-0432

##### *Skin protection*

no data available

#### By short-term hand contact

Suitable material: no data available

Thickness of the glove material: no data available

Breakthrough time (maximum wearing time): no data available

Recommended glove articles: no data available

#### By long-term hand contact

Suitable material: no data available

Thickness of the glove material: no data available

Breakthrough time (maximum wearing time): no data available

Recommended glove articles: no data available

*Respiratory protection*

no data available

Suitable respiratory protection apparatus:

Recommendation: no data available

Suitable material: no data available

Recommendation: no data available

*Additional information*

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

*Environmental exposure controls*

no data available

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

- (a) Appearance
- |                 |                   |
|-----------------|-------------------|
| Physical state: | liquid            |
| Colour:         | no data available |
- (b) Odour: no data available
- (c) Odour threshold: no data available

### Safety relevant basic data

- (d) pH: no data available
- (e) Melting point/freezing point: no data available
- (f) Initial boiling point and boiling range: no data available
- (g) Flash point: no data available
- (h) Evaporation rate: no data available
- (i) Flammability (solid, gas): not applicable
- (j) Upper/lower flammability or explosive limits
- |                        |                   |
|------------------------|-------------------|
| Lower explosion limit: | no data available |
| Upper explosion limit: | no data available |
- (k) Vapour pressure: no data available
- (l) Vapour density: no data available
- (m) Relative density: no data available
- (n) Solubility(ies)
- |                   |                   |
|-------------------|-------------------|
| at 20 °C:         | no data available |
| Soluble (g/L) in: | no data available |
- (o) Partition coefficient: n-octanol/water: no data available
- (p) Auto-ignition temperature: no data available
- (q) Decomposition temperature: no data available
- (r) Viscosity
- |                      |                   |
|----------------------|-------------------|
| Kinematic viscosity: | no data available |
| Dynamic viscosity:   | no data available |
- (s) Explosive properties: not applicable
- (t) Oxidising properties: not applicable

### Other information

- Bulk density: no data available
- Refraction index: no data available

Dissociation constant:	no data available
Surface tension:	no data available
Henry constant:	no data available

## SECTION 10: Stability and reactivity

### Reactivity

no data available

### Chemical stability

no data available

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Incompatible materials

no data available

### Hazardous decomposition products

no data available

### Additional information

no data available

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute effects

*Acute oral toxicity:*

no data available

*Acute dermal toxicity:*

no data available

*Acute inhalation toxicity:*

no data available

#### Irritant and corrosive effects

*Primary irritation to the skin:*

Causes skin irritation.

*Irritation to eyes:*

Causes serious eye irritation.

*Irritation to respiratory tract:*

May cause respiratory irritation.

**Respiratory or skin sensitisation**

In case of skin contact: not sensitising

After inhalation: not sensitising

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure**

not applicable

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Carcinogenicity**

No indication of human carcinogenicity.

**Germ cell mutagenicity**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

No indications of human reproductive toxicity exist.

**Aspiration hazard**

not applicable

**Other adverse effects**

no data available

**Additional information**

no data available

## SECTION 12: Ecological information

**Ecotoxicity**

**Acute (short-term) fish toxicity:**

no data available

**Chronic (long-term) fish toxicity:**

no data available

**Acute (short-term) daphnia toxicity:**

no data available

**Chronic (long-term) daphnia toxicity:**

no data available

**Acute (short-term) algae toxicity:**

no data available

**Chronic (long-term) algae toxicity:**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

Partition coefficient: n-octanol/water: no data available



**Mobility in soil:**

no data available

**Results of PBT/vPvB assessment**

no data available

**Other adverse effects**

no data available

## SECTION 13: Disposal considerations

### Waste treatment methods

**Appropriate disposal / Product**

Dispose according to local legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: no data available

**Appropriate disposal / Package**

Dispose according to local legislation. Handle contaminated packages in the same way as the substance itself.

**Additional information**

no data available

## SECTION 14: Transport information

### Land transport (ADR/RID/DOT)

No dangerous good in sense of this transport regulation.

### Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

### Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**General rules**

Water hazard class (WGK): no data available

**California Prop 65 Components**

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

## Chemical Safety Assessment

no data available

### SECTION 16: Other information

#### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
AGS - Committee on Hazardous Substances (Ausschuss für Gefahrstoffe)  
CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures  
DFG - German Research Foundation (Deutsche Forschungsgemeinschaft)  
DOT – U.S. Department of Transportation  
Gestis - Information system on hazardous substances of the German Social Accident Insurance (Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung)  
IATA-DGR - International Air Transport Association-Dangerous Goods Regulations  
ICAO-TI - International Civil Aviation Organization-Technical Instructions  
IMDG - International Maritime Code for Dangerous Goods  
LTV - Long Term Value  
NIOSH - National Institute for Occupational Safety and Health  
OSHA - Occupational Safety & Health Administration  
PBT - Persistent, Bioaccumulative and Toxic  
RID - Regulation concerning the International Carriage of Dangerous Goods by Rail  
STV - Short Term Value  
SVHC - Substances of Very High Concern  
vPvB - very Persistent, very Bioaccumulative

#### Additional information

Indication of changes:                      general update

*The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.*