

# SAFETY DATA SHEET

according to Regulation (EG) no 1907/2006  
 Generic EU MSDS – No country specific data  
 REVISION DATE: 2014-06-10

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name: Tris  
 Article number: 16-0021

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

Identified uses: Laboratory chemical; manufacture of substances

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

Company: Medicago AB  
 Danmark Berga 13  
 755 98 Uppsala  
 Telephone: +46 (0)18 56 11 80  
 Facsimile: +46 (0)18 56 11 88  
 E-mail address: info@medicago.se

### 1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Classified as not hazardous substance

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Signal word: -

Hazard statement(s): -

Precautionary statement(s): -

Complementary hazard information:

No further information

### 2.3 Other hazards

No data available

## 3. Composition/information on ingredients

### 3.1 Substances

Substance	CAS-no.	EC-no.	Index-no.	Weight %	Classification according to constitution (EG) no 1272/2008 (CLP)
Tris	77-86-1	201-064-4	-	≤ 100 %	Not classified

## 4. First aid measures

### 4.1 Description of first aid measures

If swallowed	Rinse mouth with water; get medical attention if symptoms occur
If inhaled	Move to fresh air; get medical attention if symptoms occur; if person is unconscious, give artificial respiration and get medical attention
In case of skin contact	Wash with plenty of water; get medical attention if irritation occurs/persists
In case of eye contact	Wash eyes thoroughly with clean water for several minutes; remove contact lenses, if present and easy-to-do; rinse with water for several additional minutes; get medical attention if irritation occurs/persists
General advice	Show this data sheet to the doctor in attendance

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

No data available

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

No data available

## 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: water spray, dry chemical powder; carbon dioxide

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

Nitrogen oxides, carbon oxides

### 5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting if necessary

### 5.4 Further information

No further information

## 6. Accidental release measures

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

Avoid dust formation; avoid breathing dust; wear lab coat, safety goggles, suitable gloves and boots

### 6.2 Environmental precautions

Do not let product enter soil, sewer, waterways or groundwater

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

Collect spilled material in a suitable, labelled and closed container for disposal; sweep up without forming dust

### 6.4 Reference to other sections

For disposal: see section 13

## 7. Handling and storage

### 7.1 Precautions for safe handling

Avoid dust formation; assure adequate ventilation where dust is formed; avoid contact skin and eyes; wash hands before and after use

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

Store in a tightly closed container in a dry, well-ventilated area; do not store in a container composed of zinc, aluminium or copper

### 7.3 Specific end use(s)

No data available

## 8. Exposure controls/personal protection

### 8.1 Control parameters

No data available

### 8.2 Exposure controls

#### Appropriate engineering controls

Use general hygiene procedures; use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits; if user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

#### Personal protective equipment

**Eye/face protection:** wear safety goggles (EN 166)

**Skin protection:** use proper rubber or nitrile gloves; gloves must be inspected prior to use

**Body Protection:** wear lab coat or other impervious clothes

**Respiratory protection:** if necessary, use dust respirator tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU)

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	white, crystalline
Odour	no data available
Odour threshold	no data available
pH	10.3-10.9 at 20°C
Melting point/ freezing point	melting point: 169°C
Initial boiling point and boiling range	boiling point: 288°C
Flash point	no data available
Evaporation rate	no data available
Flammability (Solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	1.32 g/cm <sup>3</sup>
Water solubility	678-689 g/l at 20°C
Partition coefficient: n-octanol/ water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

### 9.2 Other information

No data available

## 10. Stability and Reactivity

### 10.1 Reactivity

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

No data available

### 10.6 Hazardous decomposition products

In case of fire: carbon oxides, nitrogen oxides

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### 11.1.1 Substances

**Acute toxicity**

No data available

**Skin corrosion/irritation**

Skin: rabbit – not irritating

**Serious eye damage/ eye irritation**

Eye: rabbit – not irritating – 72 h

**Respiratory or skin sensitization**

Skin: guinea pig – no to mild sensitization

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity – single exposure**

No data available

**Specific target organ toxicity – repeated exposure**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

No data available

## 12. Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

No data available

## 13. Disposal considerations

### 13.1 Waste treatment methods

Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

Contaminated packaging: dispose of as unused product

## 14. Transport information

### 14.1 UN-number

ADR-RID: - IMDG: - IATA: -

### 14.2 UN proper shipping name

ADR-RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

ADR-RID: - IMDG: - IATA: -

### 14.4 Packaging group

ADR-RID: - IMDG: - IATA: -

### 14.5 Environmental hazards

ADR-RID: no  
IMDG, water pollutant: no  
IATA: no

### 14.6 Special precautions for user

No data available

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

## 15. Regulatory information

This safety data sheet 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

No data available

## 16. Other information

This information is based on the current state of knowledge.

Precaution and disclaimer: For laboratory use only; not for drug, household, or any other use