

SAFETY DATA SHEET

Prepared in accordance to article 31 of EU regulation 1907/2006/EC
Generic SDS – No Country Specific Data

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

1.1 Product Identifier

Product Name: TEMED
Product Number(s): GS21.0025
Brand: GRISP
REACH No. N/A

1.2 Relevant identified uses of the substance/mixture and uses advised against:

Identified uses: Laboratory chemicals, for research only.
Uses advised against: Not intended for human or animal diagnostics, therapeutics or other clinical uses.

1.3 Company/Undertaking Identification

Company: GRISP, Lda.
Edifício Central do UPTEC
Rua Alfredo Allen, 455|461
4200-135 PORTO, Portugal
Tel: +351-220301599
Fax: +351-220301597
E-mail: info@grisp.pt

1.4 Emergency telephone number:

Emergency telephone number: +351-808 250143 (Poison Information Centre, CIAV, Lisbon) or check local emergency contact information

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Flammable Liquids: Category 2, H225
Acute Toxicity (Oral): Category 3, H301
Acute Toxicity (Inhalation): Category 3, H331
Skin corrosion: Sub-category 1B, H314
Serious Eye damage: Category 1, H318

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Labelling according to Regulation (EC) No. 1272/2008

CLP

Hazard pictograms:



Signal word: Danger

Hazard Statements

Hazard Statements

H225	Highly flammable liquid and vapour
H301+H331	Toxic if swallowed or if inhaled
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

Precautionary statements:

Response:

P308+P313+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
P304+P340+P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233	Keep container tightly closed
P280	Wear protective gloves / protective clothing / eye protection / face protection

2.3 Other hazards

None

3 Composition/information on ingredients

3.1 Description: Reagent for the preparation of polyacrylamide gels for electrophoresis

3.2 Chemical Characterization: Mixtures

Synonyms: N,N,N', N'-Tetramethyl ethylenediamine

Substance	Formula	CAS	EC-No	%	Classification (CLP)
TEMED	C ₆ H ₁₆ N ₂	110-18-9	203-744-6	≤100	Flam. Liq 2, H225 Eye Dam. 1, H318 Skin Corr. B, H314 Acute Tox 3, H301, H331

3.2.1 Components not listed here are either not dangerous or their concentrations do not exceed the limits specified in Regulation (EC) No 1272/2008.

4 First aid measures

4.1 Description of First aid measures:

General information:	Consult a physician. Show this safety data sheet to the doctor in attendance
Inhalation:	DO NOT DELAY! If inhaled, move exposed person to fresh air. If not breathing, begin artificial respiration immediately and obtain medical attention.
Eye contact:	DO NOT DELAY! In case of contact with eyes, rinse with plenty of water for at least 15 minutes. Remove contact lenses. Immediately call in ophthalmologist.
Skin contact:	DO NOT DELAY! In case of contact with skin, flush with copious amounts of water for at least 15 minutes. If pain or irritation occurs, obtain medical attention.
Ingestion:	DO NOT DELAY! If swallowed, immediately make victim drink water (two glasses at most). Seek medical advice immediately. If medical care is not available within one hour, induce vomiting, administer activated charcoal (20-40g in a 10% slurry) and consult a physician as quickly as possible. Do not attempt to neutralize.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 Fire-fighting measures

5.1 Extinguishing Media :

CO₂, powder or water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

Pay attention to flashback.

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapors possible in the event of fire.

Forms explosive mixtures with air at ambient temperatures.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin, eyes and clothing. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Keep away from heat and sources of ignition.

6.2 Environmental Precautions:

Avoid spill to prevent migration. Do not allow product to enter drains. Dispose of contents/container in accordance to national and local regulations.

6.3 Methods and material for containment and cleaning up:

Absorb with appropriate material (e.g., sawdust, sand, diatomite, acid binders, universal binders, sodium bicarbonate, crushed limestone, etc.), and place in closed adequate container for proper disposal.

7 Handling and storage

7.1 Handling:

Avoid skin and eye contact. Ensure good ventilation/exhausting in the workplace. Avoid inhalation of vapour or mist. Safety showers and eye wash facilities should be available in the work area. Do not smoke. Protect against electrostatic charges.

7.2 Storage:

According to product specifications.

7.3 Specific end uses:

No further relevant information available

8 Exposure controls/personal protection

8.1 Control Parameters

8.2 Exposure Controls

This product is for research only and has not been intended/approved for any other commercial, drug, medicinal, household or other consumer purposes. Avoid all unnecessary exposure. Wear tightly fitting safety goggles, suitable protective clothing, and gloves. Do not wear contact lenses. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Handle in accordance with good industrial hygiene and safety practice.



Protective gloves



Tightly sealed goggles



Protective work clothing

Appropriate Engineering Controls. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

9 Physical and chemical properties

9.1. Physical State:	Liquid
9.2. Appearance:	Colourless
9.3. Odor:	Amine-like
9.4. pH (25°C):	Undetermined
9.5. Flash Point:	-16.5°C (Regulation (EC) N° 440/2008, Annex 1.9 (closed up))
9.6. Melting point:	-55°C
9.7. Boiling point:	119°C-122°C
9.8. Self-ignition:	150°C
9.9. Danger of explosion.	No data available
9.10 Solubility in water:	Miscible

10 Stability and reactivity

10.1 Reactivity

Vapors may form explosive mixture with air.

10.2 Chemical Stability

Stable.

10.3 Conditions to avoid

Heating

10.4 Materials to avoid

Strong oxidizing agents, acids

Caution! In contact with nitriles, nitrates, nitrous acid possible liberation of nitroamines!

10.5 Conditions to avoid

No information available

10.6 Hazardous decomposition products

No information available

10.7 Hazardous products of thermal decomposition:

No information available

11 Toxicological information

11.1 Information on toxicological effects

Acute Toxicity:

LD50 Oral – Rat – 268 mg/kg

Remarks: Lungs, Thorax, or Respiration: Other changes.

Gastrointestinal: Ulceration or bleeding from stomach.

Blood: Hemorrhage. (RTECS)

Symptoms: If ingested, severe burns on the mouth and throat, as well as danger of perforation of the esophagus and the stomach.

LC50 Inhalation – Rat – 4h – 6,3 mg/l

Remarks: Behavioral: Ataxia. Behavioral: Irritability (RTECS)

Symptoms: mucosal irritations, cough, shortness of breath, possible damages, damage of respiratory tract

LD50 Dermal – Rat – 5.390 mg/kg

Remarks: (RTECS)

Irritation:

Causes skin burns

Corrosivity:

Causes serious eye damage

Sensitisation:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity:

No component of this product present is identified as probable possible or confirmed human carcinogen by IARC

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

12 Ecological Information

Toxicity

12.1 Aquatic toxicity

No further relevant information available

12.2 Persistence and degradability:

Inherently biodegradable

12.3 Bioaccumulative potential

Product is not expected to bioaccumulate

12.4 Mobility in Soil:

No further relevant information available

12.5 Other adverse effects:

No further relevant information available

Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB

13 Disposal Considerations

Dispose in accordance to all National and local environmental regulations.

14 Transport Information

IATA/ADR/DOT-US/IMDG

14.1 UN number

UN2372

14.2 UN proper shipping name

ADR/RID	1,2-DI-(DIMETHYLAMINO) ETHANE
IMDG	1,2-DI-(DIMETHYLAMINO) ETHANE
IATA	1,2-Di-(dimethylamino) ethane

Land transport ADR/RID (cross-border)

ADR/RID class:	3 Flammable liquids
UN-Number:	2372
Danger code (Kemler):	33
Packaging group:	II

Maritime transport IMDG

IMDG class:	3 Flammable liquids
UN-Number:	2372
EMS Number:	F-E, S-D
Packaging group:	II

Air transport ICAO-TI and IATA-DGR

ICAO/IATA class:	3 Flammable liquids
UN/ID Number:	2372
Packaging group:	II

15 Regulatory Information

15.1 US Federal Regulations

No additional information available

15.2 International Regulations

EU Regulations

No additional information available

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

No additional information available

15.3 National Regulations

No additional information available

15.4 US State Regulations

No additional information available

15.5 Other Regulations

No additional information available

16 Other information

The information mentioned above is based on our present knowledge and is believed to be correct. However, it shall only be used as a guide and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. GRISP, Lda. shall not be held liable for any damage resulting from the handling or from contact with the above product. This SDS has been prepared in accordance with EU Regulation 1907/2006/EC and other EU legislation in force.