

**1. PRODUCT/PREPARATION/COMPANY**

Trade name: **Termi-DNA-Tor**

Company: Biotools, B & M Labs, S.A.  
Valle de Tobalina – 52 – Nave 39  
28021 Madrid  
SPAIN  
Tel: + 34 91 710 00 74  
Fax: + 34 91 505 31 18

Product Number: 22.001, 22.002

Emergency number: please contact Biotools distributor in your country. Spain only: 91 562 04 20

**2. HAZARDS IDENTIFICATION**

**Primary routes of entry**

Skin or eye contact from splashes

**Ingestion**

Harmful if swallowed. May cause irritation to the gastrointestinal tract.

**Skin contact**

May cause irritation

**Eye contact**

Irritating

**Evidence for reproductive toxicity, carcinogenicity and mutagenicity**







This product contains a component that has been reported to be probably carcinogenic.

<b>Hazard Ingredients</b>	
<b>Propan-2-ol</b> <b>Propan-1-ol</b>	Harmful if swallowed. Causes burns. Very toxic to aquatic organisms.
<b>Formaldehyde solution</b>	Toxic by inhalation, in contact with skin and if swallowed. Causes burns. Possible risk of cancer. May cause sensitization by skin contact.
<b>Glyoxal solution</b>	Harmful by inhalation. Irritating to eyes and skin. May cause sensitization by skin contact. Possible risks of irreversible effects. Wear suitable protective clothing and gloves.
<b>Glutaraldehyde solution</b>	Toxic by inhalation and if swallowed. Causes burns. May cause sensitization by inhalation and skin contact. Very toxic to aquatic organisms. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible). Avoid release to the environment. Refer to special instructions/Safety data sheets.

### 3. COMPOSITION OF THE PRODUCT/INFORMATION ON INGREDIENTS

Chemical characterisation: Alcohol solution. Volume of each product package varies: 450 ml – 900 ml.

Active ingredients:

CAS-No	EC no	Name	Contents	Danger <sup>1</sup>	Risks
67-63-0 71-23-8		<b>Propan-2-ol</b> <b>Propan-1-ol</b>	<25%	F Xi  	H319/242/336
50-00-0	200-001-8	<b>Formaldehyde solution</b>	<30 %	T 	H331/311/301/314/351
107-22-2	203-474-9	<b>Glyoxal solution</b>	<30%	Xn 	H332/319/315/317 P280/281
111-30-8	203-856-5	<b>Glutaraldehyde solution</b>	<30%	T N  	H331/301/314/334/317/400 P305/351/337/338/313/280/281273

### 4. FIRST AID MEASURES

***Because of the toxic and highly absorptive nature of some of the active ingredients of the product, quickly providing first aid helps to minimize health effects.***

#### **Skin contact**

Wash skin with water and soap and rinse thoroughly. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.

#### **Eye contact**

Rinse opened eyes for at least 15 min with copious amounts of water. Check for and remove any contact lenses. Call a physician.

#### **Ingestion**

Do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth with plenty of water. Call a physician. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

#### **Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

<sup>1</sup> Dangers and risks on active ingredients are applicable to pure ingredients. Amounts present in the specified product are under threshold levels as per Directive 67/548/EC and other European Legislation in force.

**5. FIRE FIGHTING MEASURES****Suitable extinguishing media**

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

**Fire and explosion hazards**

Emits irritant or toxic fumes under fire conditions.

**Protective equipment**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear protective gloves and goggles.

**Environmental precautions**

Product must not enter ground, sewerage system or water course

**Measures for cleaning/collecting**

Collect spilled liquid with liquid-binding material or inert absorbent and place it in a container for disposal. Wash spill site after material pickup is complete.

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**7. HANDLING AND STORAGE****Handling**

Always keep the containers tightly closed. Observe good laboratory technique when handling.

**Storage**

Store in the original container, in a cool dry place.

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****Exposure limits**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace

**Eye protection**

Wear goggles

**Hand protection**

Wear protective gloves

**Skin protection**

Wear labcoat

**Hygiene measures**

General industrial hygiene practice.

**Breathing equipment**

Use an approved/certified respirator or equivalent

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form:** Liquid

**Colour:** Greenish

**Odour:** Like alcohol

**Boiling point:** no data available.

**Flash point:** no data available

**Explosive properties:** no data available

**Vapor pressure:** no data available

**pH:** 5.5-6.5

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**10. STABILITY AND REACTIVITY****Stability**

Stable under normal handling and storage conditions

**Decomposition**

Formaldehyde may form decomposition vapours at room temperature or in contact with metals. However, concentration present in Termi-DNA-Tor does not pose any serious hazard

**Conditions to avoid**

Avoid use on materials sensitive to alcohol and on hot surfaces. Do not light flames or smoke during application.

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**11. TOXICOLOGICAL INFORMATION**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** May be harmful if swallowed.

**Acute toxicity**

**Formaldehyde:** oral, rat, LD50: 203 mg/m<sup>3</sup>  
**Glutaraldehyde:** oral, rat, LD50: 134 mg/kg  
**Propan-2-ol :** oral, rat, LD50: 2000 mg/Kg

**Chronic exposure**

Products may cause allergic reactions in certain sensitive individuals  
This product contains a component that has been reported to be probably carcinogenic.

**Sensitization**

No data available

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**12. ECOLOGICAL INFORMATION**

This product contains various components that have been reported to be very toxic to aquatic organisms. Avoid release to the environment.

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**13. DISPOSAL CONSIDERATIONS**

Controlled disposal in waste system. Product disposal (leftovers or residues resulting from normal use) does not pose any serious hazards in the adequate proportion.  
The product and packaging should be disposed of in accordance with the instructions of the local authorities.

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**14. TRANSPORT INFORMATION****RID/ADR**

Not regulated

**IMDG**

Not regulated

**IATA**

Not regulated.

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**15. REGULATORY INFORMATION**

DANGERS AND RISKS ON ACTIVE INGREDIENTS ARE APPLICABLE TO PURE INGREDIENTS. AMOUNTS PRESENT IN THE SPECIFIED PRODUCT ARE UNDER THRESHOLD LEVELS AS PER DIRECTIVE 67/548/EC AND OTHER EUROPEAN LEGISLATION IN FORCE.

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**16. OTHER INFORMATION**

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 regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biotools, B & M Labs, S.A. shall not be held liable for any damage resulting from handling or from contact with the above product.

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