1. PRODUCT/PREPARATION/COMPANY

Trade name: **DNA Controls** (Fish, Pork, Cow, Chicken, Turkey, Sheep, Goat, Rabbit, Horse, Human & Goose)

Product Number: 91.001, 91.004, 91.005, 91.006, 91.007, 91.008, 91.009, 91.010, 91.011, 91.014, 91.016

Company: Biotools, B & M Labs, S.A.
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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 reprodutive toxicity, carcinogenicity and mutagenicity
No data available

Hazard Ingredients	
Tris hydroxymethyl aminomethane (Tris)	Irritating to eyes and skin.
Hydrochloric acid	Causes burns. Irritating to respiratory system. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible).
Ethylenediaminetetraacetic acid	Irritating to eyes. Harmful to aquatic organisms, may cause long- term adverse effects in the aquatic environment. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Avoid release to the environment. Refer to special instructions/ Safety data sheets.

3. COMPOSITION OF THE PRODUCT/INFORMATION ON INGREDIENTS

Chemical characterisation: Solutions in water. Volume of each product package varies: 1,5 ml.

CAS-No	EC no	Name	Contents	Danger[1]		Risks
7732-18-5	231-791-2	**Water**	≈ 99%	None	None	7732-18-5
77-86-1	201-064-4	**Tris hydroxymethyl aminomethane (Tris)**	≈9%	Xi		H319/315
7647-01-0	231-595-7	**Hydrochloric acid**	<0,01%	C Xi		H314/335 P305/313/337/338/351/280/281/309+315
60-00-4	200-449-4	**Ethylenediaminetetraacetic acid (EDTA)**	<0,5%	Xi		H319/413 P305/313/337/338/351

[1] Dangers and risks on active ingredients are aplicable 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.

4. FIRST AID MEASURES

Skin contact
Wash skin with water and soap and rinse thoroughly. Remove contaminated clothing and shoes. Cover the irritated skin with an emollient. 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.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear protective gloves and goggles. Evacuate area. Shut off all sources of ignition.

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.

7. HANDLING AND STORAGE

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

Storage
Store in the original container, at -20ºC.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits
Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Colour: Colorless
Odour: Odorless
Boiling point: no data available.
Flash point: no data available
Explosive properties: no data available
Vapor pressure: no data available
pH: 7-9

10. STABILITY AND REACTIVITY

Stability
Stable under normal handling and storage conditions

Decomposition
No data available

Conditions to avoid
Avoid strong oxidising agents, fire.

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
Tris hydroxymethyl aminomethane (Tris): oral; rat; LD50: 5900 mg/kg
Hydrochloric acid: inhalative, rat: 3124 ppm(V)/1 h (pure substance)
Ethylenediaminetetraacetic acid (EDTA): oral, rat, LD50: 4000 mg/kg

Chronic exposure
Products may cause allergic reactions in certain sensitive individuals

Sensitization
No data available

12. ECOLOGICAL INFORMATION

Data not yet available

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.

14. TRANSPORT INFORMATION

RID/ADR
Non-hazardous for road transport

IMDG
Non-hazardous for sea transport

IATA
Non-hazardous for air transport

15. REGULATORY INFORMATION

DANGERS AND RISKS ON ACTIVE INGREDIENTS ARE APLICABLE 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.

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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