

MATERIAL SAFETY DATA SHEET

Mastit 4
DNA Diagnostic A/S

Revised: 2017.06.15
Replaces: 2016.08.15

1. Product Identification

Product names:

Mastit 4

Catalog no's.:

M4A

M4B

M4C

M4D

M4E

M4F

M4AL

M4BD

M4BDF

TBC4

Chemical names, common names:

Not applicable

Product use:

The kit is for in vitro screening of milk for bacteria.

Synonyms:

Not applicable

Manufacturer's name:

DNA Diagnostic A/S

Address:

Voldbjergvej 14

DK-8240 Risskov

Denmark

Emergency phone: +45 8732 3050

Business phone: +45 8732 3050

Web: www.dna-diagnostic.com

2. Composition / Information of Ingredients

This safety sheet describes the Mastit 4 kits.

The Mastit 4 Kit consists of a large box and one or two small boxes.

Large box contains:

Four 96-well plates with seal and 150 uL Pre-lysis buffer in each well.

Four 96-well plates

Four 96-cap sheets.

Four bottles with 110 mL Wash Buffer

Small box contains:

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Four 96-well plates with seal and 15 uL qPCR reaction mix in each tube.
Two bottles with 5.7 mL Lysis Buffer I.
Two vials with 0.6 mL Additive for Lysis Buffer I.

Each of these solutions has the following components:

Component	CAS No	Weight percent	Comments
Pre-lysis buffer	N/A	N/A	MSDS data N/A according to EU-directives 67/548/EC and 1999/45/EC for products containing less than 1 % of dangerous components and less than 0.1 % of carcinogenic components
Lysis Buffer I	N/A	N/A	MSDS data N/A according to EU-directives 67/548/EC and 1999/45/EC for products containing less than 1 % of dangerous components and less than 0.1 % of carcinogenic components
Additive for Lysis Buffer I	N/A	N/A	MSDS data N/A according to EU-directives 67/548/EC and 1999/45/EC for products containing less than 1 % of dangerous components and less than 0.1 % of carcinogenic components
Wash Buffer	N/A	N/A	MSDS data N/A according to EU-directives 67/548/EC and 1999/45/EC for products containing less than 1 % of dangerous components and less than 0.1 % of carcinogenic components
Water	7732-18-5	>98	The main component
qPCR reaction mix			
Buffer mix	N/A	N/A	MSDS data N/A according to EU-directives 67/548/EC and 1999/45/EC for products containing less than 1 % of dangerous components and less than 0.1 % of carcinogenic components
Oligonucleotides	N/A	2	MSDS data N/A according to EU-directives 67/548/EC and 1999/45/EC for products containing less than 1 % of dangerous components and less than 0.1 % of carcinogenic components
Water	7732-18-5	>97	Main component

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3. Hazards identification

Emergency overview:

Water is the main component of all solutions.

Occupational exposure presents no health hazard.

Potential Health Effects:

Eye: May cause irritation of the eye

Skin: Contact may irritate/inflame the skin.

Inhalation No toxicity expected from inhalation.

Ingestion: May cause nausea or vomiting

Chronic: No data on cancer

Special note regarding Biological Constituents

The Biological Constituents of this product are known to be non-infectious and non-hazardous. When this product is used in conjunction with bodily fluids UNIVERSAL PRECAUTIONS SHOULD BE IMPLEMENTED.

Exposure limits:

No compounds in this product have defined exposure limits.

4. First Aid Measures

Basic hygiene should prevent any problems. If contact with this product leads to reddening, inflammation, or other skin or eye irritation, flush the exposures area with running water.

Remove any contaminated clothing, taking care not to contaminate eyes. If chemical is in eyes, open victim's eyes while under gentle running water. Use sufficient force to open eye lids. Have the victim "roll" eyes. As per standard industrial practice, the recommended minimum flushing time is 15 minutes.

The victim should seek immediate medical attention if an adverse reaction has occurred. A copy of label and MSDS should be given to the physician or health professional. If chemical is swallowed, and the victim is having a reaction to the product, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow.

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Eye:

Flush with water in an eyewash for at least 15 minutes, holding eyelids open. Remove contact lenses, clean before re-use. Obtain medical attention if symptoms develop (redness, itching, etc).

Skin:

Wash with plenty of soap and water for at least 15 minutes. Remove contaminated clothing, which may be washed for re-use. Obtain medical attention if symptoms develop (redness, itching, etc.).

Inhalation:

Remove person to fresh air. Obtain medical attention unless effects are mild and temporary.

Ingestion:

Give plenty of water, if conscious. If vomiting occurs naturally, wash out mouth. Be prepared to induce vomiting upon a physician's advice. Obtain medical attention if symptoms develop.

Note to Physician:

Treat symptomatically. No specific antidote.

5. Fire Fighting Measures

Flash point

Not available

Autoignition temperature

Not available

Upper Flammable limits (in air by volume %)

Not available

Lower Flammable limits (in air by volume %)

Not available

Fire extinguishing materials

This Product is not combustible. If this product is in the proximity of a fire, use fire extinguishing materials which are appropriate the materials which are involved in the fire.

Special fire fighting procedures

There are no special procedures for the comments of this product. Fire fighting procedures for the materials in the vicinity of this product should be used.

Hazardous Combustion products

Includes carbon dioxide, carbon monoxide, dense smoke.

Fire fighting equipment

Standard turnout gear ("bunker gear"). Positive-pressure self-contained breathing apparatus.

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6. Accidental release measures

Accidental releases may be subject to special reporting requirements and other regulatory mandates. Refer to section 8 for personal protection equipment recommendations.

Personal Protective Equipments

Area ventilation is generally adequate. Chemical-resistant gloves should be worn. Wear standard safety goggles or glasses. All watertight materials and rubber materials offer adequate protection.

Spill cleanup

Absorb spill. Common absorbent materials should be effective. Deposit in appropriate containers for removal and disposal. Wash area with plenty of water.

7. Handling and storage

Storage temperature

Large Box: Store at room temperature.
Small Box: Frozen, at minus 20 degrees Celsius.

Storage pressure

Ambient.

Handling procedures

Keep closed or covered when not in use.

Storage Procedures

Suitable for most general chemical storage areas. Protect from direct sunlight.

8. Exposure controls, personal protection

Exposure limits

No compounds in this product have defined exposure limits.

Personal Protective Equipments

Area ventilation is generally adequate.
Chemical-resistant gloves should be worn.
Wear standard safety goggles or glasses.
No respiratory protection will be needed under normal industrial operating conditions.
All watertight materials and rubber materials offer adequate protection.

Potential Health Effect

No long-term health effect from exposure to this product is presently known. Components of this product may pose health hazards, as indicated below.

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9. Physical and chemical properties

For all components of the kit

Odor

None

Boiling point

100 degrees Celsius

Melting point or range

0 degrees Celsius

pH

Neutral

Vapor Density

Not established but similar to water

Specific gravity

1.0

Solubility in water

Yes

Vapor pressure, mm Hg at 20 degrees Celsius

Similar to water

Volatiles

Not established

Evaporation rate (water=1)

Not established but similar to water

Viscosity

Not established but similar to water

Appearance and color

Colorless liquid, like water

How to detect this substance

There are no unusual properties. The product's characteristics are very similar to those for water.

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10. Stability and Reactivity

Stability

Stable under ordinary conditions for use and storage

Conditions to avoid

Any set of conditions which should be avoided for water. Direct sunlight. Strong oxidizers and reducers. Strong acids and bases. Alkalimetals.

Materials with which substance is incompatible

This product is not compatible with substances which are incompatible with water. Otherwise not established.

Hazardous Decomposition Products

None known

Hazardous Polymerization

Not expected to occur

11. Toxicological information

Potential Health Effect

No long-term health effect from exposure to this product is presently known.

Acute toxicity:

Dermal/skin

Not known

Inhalation/respiratory

Not known

Oral/ingestion

Not known

Target organs

Not known

Carcinogenicity

Not known.

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12. Ecological Information

Eco-toxicological Information

No ecological information available

Environmental Fate (degradation, Transformation, and persistence)

Bio-concentration is not expected to occur

13. Disposal Considerations

Regulatory Information

Not applicable

Disposal Method

Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.

14. Transport information

Not subject to transport regulations

Proper shipping name

Not determined

Hazard class

Not determined

Subsidiary hazards

Not determined.

ID number

Not determined

Packing group

Not determined

15. Regulatory information

European Union.

Product Risk Phrases: None assigned.

Product Safety Phrases: None assigned.

Product Classification: Not classified.

Safety Symbol: None assigned.

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United States.

TSCA: This product is solely for research and development purposes only. It may only be handled by technically qualified individuals.

Canada.

DSL/NDSL: Not determined.

16: Other information

HMIS Rating 0-4:

Fire: Not determined.

Health: Not determined.

Reactivity: Not determined.

Abbreviations:

N/A - Data is not applicable or not available

HMIS - Hazard Material Information System

PROP 65 - California Safe Drinking Water and Toxic Enforcement Act of 1986.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since DNA Diagnostic A/S cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.