BEAVER Biomedical Engineering Co., Ltd.

SAFETY DATA SHEET
Version 1.1
Revision Date 02/01/2020
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SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name: Sample Collection Kit

Product number: 43903

Relevant identified uses of the substance or mixture and uses advised against

Material uses: collection, transportation and short-time storage of specimen total DNA or RNA

Details of the supplier of the safety data sheet

Company: BEAVER Biomedical Engineering Co., Ltd.

Address: 1 huayun Rd. Bldg. B4, Suzhou Industrial park

Emergency telephone number

Emergency Phone: 86-512-85187639

SDS Date: 2020-02-01

SECTION 2 HAZARDS IDENTIFICATION

Hazards Identification:

The liquid contained in the plastics shell:

Classification according to GHS

Reproductive toxicity (Category 2)

The hazards not mentioned are not applicable or no data available.

Emergency Overview:

The liquid contained in the plastics shell: suspected of damaging fertility or the unborn child.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Product NAME: Sample Collection Kit

Ingredient	concentration	CAS No.
Sodium chloride	2.34%	7647-14-5
Tris(hydroxymethyl)methyl aminomethane	2.42%	77-86-1
Ethylenediaminetetraacetic acid disodium salt	0.67%	139-33-3

SECTION 4 FIRST AID MEASURES

Skin contact

Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Oral exposure

Wash out mouth with water. Get medical attention if symptoms occur.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

Suitable: Use an extinguishing agent suitable for the surrounding fire.

Firefighting:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective: equipment and emergency procedures

Use personal protective equipment, keep people away from and upwind of spill/leak.

Ensure adequate ventilation.

Avoid breathing vapors, mist or gas.

Entry to noninvolved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

SECTION 7 HANDLING AND STORAGE

Handling

Put on appropriate protective clothing and safety gloves. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: strong oxidizing agents. Wash hands and face thoroughly after handling. No smoking at working site.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Incompatibilities: strong oxidizing agents.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls:

Mechanical exhaust required. Safety shower and eye bath.

Individual protection measures:

Respiratory: Government approved respirator if needed.

Eye: Chemical safety goggles

Clothing: Wear appropriate protective clothing.

Hand: Protective gloves.

Other protection:

No smoking, drinking and eating at working site. Wash thoroughly after handing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical state:	Liquid
Color:	colorless
Odor:	Not available
pH	7.5-8.5
Melting point	Not available
Boiling point:	95 ℃
Flash point	>94.0 ℃
Solubility：	Soluble in water

SECTION 10 STABILITY AND REACTIVITY

Stability

The product is stable under normal temperature and pressures.

Materials to avoid:

Strong oxidizing agents.

Hazardous polymerization:

Will not occur.

Hazardous decomposition products:

Hydrogen chloride gas, sodium oxides, carbon oxides, sulphur oxides, nitrogen oxides.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity

The liquid contained in the plastics shell:

Sodium chloride	Rat Oral LD_{50} : 3000 mg/kg
	Rat inhalation LC_{50}: 42 g/m^3/1H
	Rabbit skin LD_{50}: > 10000 mg/kg
Tris(hydroxymethyl)methyl aminomethane	Rat Oral LD_{50} :5,900 mg/kg
Ethylenediaminetetraacetic acid disodium salt	Rat Oral LD_{50} ： 2000 mg/kg

Skin corrosion/irritation:

No data available.

Serous eye damage/ irritation:

No data available.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Sodium chloride	Toxicity to fish flow-through test LC50 - Lepomis macrochirus (Bluegill) - 5,840 mg/l - 96 h Remarks: (ECHA). Toxicity to daphnia and other aquatic invertebrates static test LC50 - Daphnia magna (Water flea) - 4,136 mg/l - 48 h

	(OECD Test Guideline 202) Toxicity to algae static test EC50 - Nitzschia sp. - 2,430 mg/l - 120 h (OECD Test Guideline 201)
Tris(hydroxymethyl)methyl aminomethane	Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia (water flea) - > 980 mg/l - 48 h Toxicity to algae EC50 - Algae - 397 mg/l - 72 h NOEC - Algae - 100 mg/l - 72 h.
Ethylenediaminetetraacetic acid disodium salt	Toxicity to fish LC50 – Lepomis macrochirus – 41 mg/l – 96 h

Persistence and degradability

Sodium chloride	No data available
Tris(hydroxymethyl)methyl aminomethane	Result: - Readily biodegradable. (OECD Test Guideline 301F)
Ethylenediaminetetraacetic acid disodium salt	No data available

Bioaccumulative potential

Sodium chloride	No data available
Tris(hydroxymethyl)methyl aminomethane	No bioaccumulation is to be expected (log Pow <= 4)
Ethylenediaminetetraacetic acid disodium salt	No data available

Mobility in soil

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Appropriate method of Disposal of Substance:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14 TRANSPORT INFORMATION

RID/ADR:

Non-hazardous for transport.

IATA:

Non-hazardous for Air transport.

IMO:

Non-hazardous for Sea transport.

SECTION 15 REGULATORY INFORMATION

Regulation (EC) No. 1272/2008 and the amendments:
The liquid contained in the plastics shell:
Reproductive toxicity (Category 2)

SECTION 16 OTHER INFORMATION

Further 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 regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.

Preparation Information

BEAVER Biomedical Engineering Co., Ltd.
86-512-85187639
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