



Material Safety Data Sheet

according to 1907/2006, Article 31

Version 1.0

Nov. 2017

BioEcho Life Sciences GmbH

URL: www.bioecho.de

Email: Contact@bioecho.de

Manufacturer:

BioEcho Life Sciences GmbH
Nattermannallee 1
50829 Köln, Germany
HRB 18886

Product:

EchoSAFE FFPE Deparaffinization Solution

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

EchoSAFE FFPE Deparaffinization Solution

Product no.:

- Sample kit size (5ml)
- 030-001-010 (10ml)
- 030-001-100 (100ml)

REACH Registration number(s): see SECTION 3.1/3.2 or a registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

General statement:

The product consist of several aqueous solutions that contain salts and/or detergents or enzymes from natural sources. The kits do not contain any flammable, explosive, radioactive reagents or compressed gases. Therefor, shipments can be classified as "Non-Hazmat". Due to the nature of proteinaceous, detergent and salt solutions, direct contact with skin/eyes, ingestion and inhalation of these substances should be avoided due to potentially allergenic and irritating aftereffects which can be avoided by washing/removal with tab water. Lab clothing according to Good Laboratory Practice (Lab coat, gloves, googles) should be applied.

Product includes:

1.) EchoSAFE FFPE Deparaffinization Solution

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

Laboratory chemicals for analytical use. Keep away from children and not trained personnel. Apply Good Laboratory Practice.

Exposure Scenario Classification according to REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

Uses advised against: Not described

1.3 Contact details of the supplier of the safety data sheet

BioEcho Life Sciences GmbH

Nattermannallee 1

50829 Köln, Germany

Tel.: +49-(0)221-998897-0

Mail: contact@bioecho.de

Internet: www.bioecho.de

1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.

Germany:

Poison Information Center / Vergiftungs-Informations-Zentrale

Mathildenstrasse 1

79106 Freiburg

Tel.: 0761-19240

Mail: gifinfo@uniklinik-freiburg.de

Internet: www.giftberatung.de

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture: Contents of „EchoSAFE FFPE Deparaffinization Solution“
according to Regulation (EC) No 1272/2008

EchoSAFE FFPE Deparaffinization Solution

Hazard Pictogramm:  GHS08

Signal Word: Danger

2.2 Label elements

The product is classified and labelled according to the CLP regulation

EchoSAFE FFPE Deparaffinization Solution

Hazard determining components of labelling:

- Inert higher alkane (>8 Carbon atom chain)

Hazard statements:

- H304 May be fatal if swallowed and enters airways

Precautionary statements:

- P331 Do not induce vomiting
- P301+P310 If swallowed: Immediately call poison center or doctor

2.3 Other hazards

- Repeated contact with skin can lead to dry skin
- PBT: not applicable
- vPvB: not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

EchoSAFE FFPE Deparaffinization Solution

Chemical: Inert higher alkane (>8 Carbon atom chain) with formulation agent <1%

CAS No.: 544-76-3

Formula: C₁₆H₃₄

EC No.: 208-878-91

Concentration: > 97%

SECTION 4: First aid measures

The following measures should be taken generically after incidences with the product.

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Do not leave affected person unattended.

4.1.1 After SKIN Contact

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap.

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye). Call doctor immediately.

4.1.3 After INHALATION

After inhalation fresh air should be inhaled. Keep airways free. Call doctor in case of complaints.

4.1.4 After ORAL Intake

Do not induce vomiting. If swallowed: Immediately call poison center or doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

SECTION 5: Firefighting measures

The product does not contain flammable organic solvents

5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional information

No further information available.

SECTION 6: Accidental release measures

The following measures should be taken generically after incidences with product ingredients.

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective gloves (see 8.2.2). Wear eye protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Do not breathe vapours. Restrictions on activity must be observed.

6.2 Environmental precautions

Avoid product to enter the sewerage

6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

6.4 Reference to other sections

see information in section 5.4

SECTION 7: Handling and storage

Store at room temperature >20°C. Becomes solid <18°C (fast re-liquidisation by short warming of the product in container)

7.1 Precautions for safe handling

Handling in accordance with the test instruction that comes with the product. Avoid skin and eye contact. Avoid inhalation and oral intake.

7.2 Conditions for safe storage, including any incompatibilities

The original product package of BioEcho Life Sciences GmbH allows a safe storage.
Storage class (TRGS 510): Flammable liquid above 135°C (flash point)

7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The product does not contain any relevant quantities of material with critical values that have to be monitored at the workspace.

8.2 Exposure controls

Usual precautionary measures are to be adhered to when handling chemicals. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and when finishing work. Avoid contact with eyes and skin. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities must be provided. The highest level of cleanliness must be maintained at the workplace.

8.2.1 Respiratory protection

Use suitable respiratory protective device in case of insufficient ventilation.

8.2.2 Hand protection

Gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

8.2.3 Eye protection

Safety glasses according EN 166 with integrated side shields or wrap-around protection.

8.2.4 Skin protection

Recommended to avoid contamination with these hazards.

8.2.5 Personal hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

EchoSAFE FFPE Deparaffinization Solution

Appearance: liquid

Colour: clear solution

Odor: odorless

pH: data not available

Specific gravity: data not available

Melting point: 18°C

Initial boiling point: 287°C

Flash point: 135°C

Flammability: No data available

Decomposition temperature: No data available

Auto ignition temperature: Product is not self-igniting

Explosive properties: Product does not present an explosion hazard

Vapour pressure: 0,0004 hPa at 20°C; 1 hPa at 105,3°C

Density : 0,773 g/cm³ at 25°C

Solubility in water: Not soluble

Viscosity: 4,29 mm²/s at 20°C

9.2 Other information

Data for the other parameters are not available, because no registration and no chemical safety report is required.

SECTION 10: Stability and reactivity

EchoSAFE FFPE Deparaffinization Solution

10.1 Reactivity: no data available

10.2 Chemical stability: stable at room temperature \geq 24 months

10.3 Possibility of hazardous reactions: no data available

10.4 Conditions to avoid: no data available

10.5 Incompatible materials: strong oxidizing chemicals

10.6 Hazardous decomposition products: no data available. In the original package, reagent is in separate vessels. Decompositions are not observed during the expiration period under recommended conditions.

SECTION 11: Toxicological information

EchoSAFE FFPE Deparaffinization Solution

11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

Acute toxicity:

- LD50 (rat): >5 mg/kg (OECD guideline 401)
- LD50 skin (rabbit): >3.16 mg/kg (OECD guideline 402)
- TDLo intraperitoneal (mouse): 1.546 mg/kg
- LDLo intravenous (mouse): 9.821 mg/kg

Primary irritant effect:

- No skin irritation, rabbit (OECD guideline 404)
- No eye irritation, rabbit (OECD guideline 405)

CMR effects: Not identified to date, no data available

STOT: No data available

Aspiration hazards: Fatal if swallowed or inhaled

Additional information: No data available

SECTION 12: Ecological information

EchoSAFE FFPE Deparaffinization Solution

12.1 Acute Toxicity: LC50 (fish) >1.028 mg/l -96h

12.2 Persistence and degradability: fast biological degradation. Degradable

12.3 Bioaccumulative potential: *Salmo salar* 1.7 µg/l – 7d

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB assessment: The substance does not contain components, in concentrations of 0.1% or higher that are classified as persistent or bio-accumulative.

12.6 Other adverse effects: No data available

SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations as chemical waste

SECTION 14: Transport information

Non-HazMat for all modes of transportation

14.1 UN-number: Void

14.2 UN proper shipping name: Void

14.3 Transport hazard class(es): Void

14.4: Packing group: Void

14.5 Environmental hazards:

No environmental danger, no marine pollutant

14.6 Special precautions for user: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: According to (EG) Nr. 1907/2006

15.2 Chemical safety assessment: Not necessary for these small amounts

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

- H304 May be fatal if swallowed and enters airways

16.1.2 List of relevant P phrases

- P331 Do not induce vomiting
- P301+P310 If swallowed: Immediately call poison center or doctor

16.2 Training advice

- Train Good Laboratory Practice
- Train the handling of chemicals
- Train the disposal of chemicals according to local regulations

16.3 Recommended restriction on use

- Only for professional user.
- Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!
- Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 3, 4 und 6 MuSchG)!
- An individual package of this product or test kit has a low hazardous potential.

16.4 Further information

BioEcho Life Sciences GmbH provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4 th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated September 2016

SUVA .CH, Limits in air at work 2009, revised on 01.2009

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

Reason for Revision: 2 016-03 Adaptation of regulation 1221/2015/EU



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