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MATERIAL SAFETY DATA SHEET

Product name:

FTIR Equalizer

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2004-11-25

Print date:

2004-11-25

P/N-no.:

499806. Included in 537811

SDS-ID:

US/6.0

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product name:

FTIR Equalizer

Application:

Reference solution for control and calibration of <u>Container size</u>:

Glass bottle,

spectrophotometric analyzers.

6 x 100 ml

Supplier

FOSS Analytical A/S 69, Slangerupgade DK-3400 Hilleroed Comp.Reg.No. 73399815

Tel.: +45 7010 3370 Fax.: +45 7010 3371 E-mail: info@foss.dk

COMPOSITION/INFORMATION ON INGREDIENTS

The product contains: water and solvents.

The following substances shall be indicated according to legislation:

<u>%:</u>

<0.1

CAS-No.:

EC No.:

247-852-1

Chemical name:

Sodium azide

Hazard classification:

Notes:

1-<5 71-23-8 <0.5

1303-96-4

26628-22-8

Propen-1-ol 200-746-9

Disodium tetraborate, decahydrate

Repr. Cat. 3;R62-63

F;R11 Xi;R41 R67

T+;R28 R32 N;R50-53

HAZARDS IDENTIFICATION

The product has not been classified according to the legislation in force.

Human health:

Contains a substance/a group of substances with possible risk of impaired fertility. Contains a

substance/a group of substances with possible risk of harm to the unborn child.

Environment;

Considering the limited amount applied during use and the size of the container, the risk of

adverse effects is considered small.

FIRST-AID MEASURES 4.

Inhalation:

Move into fresh air and keep at rest.

Skin contact:

Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact:

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and

open eyelids widely. If irritation persists: Seek medical attention and bring along these

instructions.

Ingestion:

Immediately rinse mouth and drink plenty of water. Keep person under observation, if person becomes uncomfortable take to hospital along with these instructions.

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FIRE-FIGHTING MEASURES

Extinguishing media:

Use fire-extinguishing media appropriate for surrounding materials.

Specific hazards:

No specific precautions.

Protective equipment for

fire-fighters:

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in

the workplace.

ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid any exposure. For personal protection, see section 8.

Environmental precautions:

Avoid discharge into drains.

Methods for cleaning up: Absorb spiliage with suitable absorbent material. Flush contaminated area with plenty of water.

For waste disposal, see section 13.

HANDLING AND STORAGE

Safe handling advice:

Observe good industrial hygiene practices. Avoid any exposure.

Technical measures:

Keep the workplace clean.

Technical precautions:

Not relevant.

Technical measures for

safe storage:

No special precautions.

Storage conditions:

Store in tightly closed original container. Cool down to 5-8°C before use.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures:

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of

inhalation of vapors.

References: Notes: Type: Exposure limits: Chemical name: OSHA **TWA** 500 mg/m^a 200 ppm n-Propyl alcohol **AÇĞİH** A3 TWA 200 ppm n-Propanol 15min STEL 400 ppm **ACGIH** TWA 5 mg/m³ Borates, tetra, sodium saltsdecahydrate **ACGIH A4** CLV 0.29 mg/m² Sodium azide, as Sodium azide **ACGIH A4** CLV 0.11 ppm Sodium azide, as Hydrazoic acid vapor

Personal protection:

Wear protective gloves. The most suitable glove must be chosen in consultation with the gloves

supplier, who can inform about the breakthrough time of the glove material.

Hygiene measures:

Wash hands after contact.

Environmental Exposure

No information available. Not available.

Controls:

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

clear liquid

Odar:

mild

pH:

not available

Boiling point:

not available

Flash point:

>55*C

Explosive properties: Relative density:

not available 1.0

Solubility:

Miscible with water.

10. STABILITY AND REACTIVITY

Stability:

Stable.

Conditions/

Avoid frost.

materials to avoid:

<u>Hazardous</u>

None specific due to the large content of water.

decomposition products:

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TOXICOLOGICAL INFORMATION

Contains small amounts of organic solvents. Extensive use of the product in areas with inadequate ventilation may result in hazardous vapor concentrations.

Inhalation:

In high concentrations, vapors may irritate throat and respiratory system and cause coughing.

LC50 (inhalation, mouse): 48 g/m3 for 1-propanol. LC50 (inhalation, rat): 37 mg/m3 (Sodium azide)

Skin contact:

Prolonged contact may cause redness and irritation. The product contains a component which

may penetrate the skin.

Eye contact:

Splashes may imitate.

Ingestion:

No harmful effects expected in amounts likely to be ingested by accident. However, ingestion

may cause nausea, headache, dizziness and intoxication.

LD50 (oral, rat): 1870 mg/kg for 1-propanol. LD50 (oral, rat): 27 mg/kg for sodium azide.

Specific effects:

Propan-1-ol: Frequent inhalation of even small concentrations may cause irritability, fatigue and

memory failure.

Contains a substance/a group of substances with possible risk of impaired fertility. Contains a

substance/a group of substances with possible risk of harm to the unborn child.

This product contains no ingredient listed on the NTP, OSHA or IARC carcinogen lists.

12. ECOLOGICAL INFORMATION

Mobility:

The product is miscible with water. May spread in water systems.

Degradability:

The degradability of the product has not been stated.

Ecotoxicity:

The environmental hazard of the product is considered to be limited.

Bioaccumulative

potential

No data available on bioaccumulation.

Other adverse effects:

None known.

DISPOSAL CONSIDERATIONS

Dispose of waste and residues in accordance with local authority requirements.

Waste from residues:

EWC-code: 16 05 09

Empty packaging:

EWC-code: 15 01 07

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14. TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15. REGULATORY INFORMATION

Labelling:

Based on information from the manufacturer regarding the chemical composition of the product, an assessment by the Danish Toxicology Centre has shown that according to EEC Directives 57/548/EEC and 1989/45/EC, the product is not liable to classification and labelling.

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NFPA Rating: Health:1 Fire:1 Reactivity:0 Other.-

Specific provisions:

National specific regulation may apply.

National regulation:

Europe/USA:

This Safety Data Sheet has been prepared according to the EU-regulation.

The following lists and legislation have been checked:

Directives 67/548/EEC on dangerous substances (up to and inclusive of the 28th adaptation)

and 1999/45/EC on dangerous preparations.

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive

91/689/EEC on hazardous waste with amendments.

Threshold Limit Values (2004), ACGIH, by the American Conference on Governmental Industrial

Hygienists.

The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and Health Standards,

Air contaminants.

U.S. Department of health and human services: 2002 - Report on Carcinogens - 10th Ed. International Agency for Research on Cancer (IARC): IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health Organization, 1972-2004.

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The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 8, 15.

Wording of Risk Phrases:

16. OTHER INFORMATION

R11 Highly flammable.

R41 Risk of serious damage to eyes.
R62 Possible risk of impaired fertility.

R62 Possible risk of impaired fertility.

R63 Possible risk of harm to the unborn child.

R67 Vapours may cause drowsiness and dizziness.

R28 Very toxic if swallowed.

R32 Contact with acids liberates very toxic gas.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

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