

U/CSF Protein

Date 6.10.2011

Previous date: 27.9.2007

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****1.1.1 Commercial Product Name**

U/CSF Protein

1.1.2 Product code

981843

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Recommended use**

In vitro diagnostic reagent for the clinical chemistry analyser.

1.3 Details of the supplier of the safety data sheet**1.3.1 Supplier**

Thermo Fisher Scientific Oy, Clinical Diagnostics Finland

Ratastie 2, P.O.Box 100

FI-01621 Vantaa

FINLAND

+358-9-329 100

+358-9-3291 0300

FI0921547-0

Email

info.cdx.fi@thermofisher.com

1.4 Emergency telephone number**2. HAZARDS IDENTIFICATION**

Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

2.1 Classification of the substance or mixture**67/548/EEC - 1999/45/EC**

Xn; R20/21/22-68/20/21/22

2.2 Label elements**67/548/EEC - 1999/45/EC**

Xn

Harmful

R-phrases(s)

R20/21/22

Harmful by inhalation, in contact with skin and if swallowed.

R68/20/21/22

Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

S-phrases(s)

S36/37

Wear suitable protective clothing and gloves.

S45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3 Other hazards**3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components****CAS/EC and Reg. number**

67-56-1

Chemical name of the substance

Methanol

Concentration Classification

3 %

F; R11;T; R23/24/25-39/23/24/25

3.3 Other information

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4. FIRST AID MEASURES**4.1 Description of first aid measures**

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

4.1.2 Inhalation

Move to fresh air. Oxygen or artificial respiration if needed.

4.1.3 Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

4.1.4 Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4.1.5 Ingestion

Drink plenty of water. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

No information available.

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Carbon dioxide (CO₂), Alcohol-resistant foam, Sand.

5.1.2 Extinguishing media which must not be used for safety reasons

No information available.

5.2 Special hazards arising from the substance or mixture

Fire may cause produce fumes hazardous to health.

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Specific methods

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6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Flush with plenty of water.

6.4 Reference to other sections

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7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment..

7.2 Conditions for safe storage, including any incompatibilities

Keep at temperatures between 15 and 25 °C.

7.3 Specific end use(s)

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Skin-

8.1.1 Threshold limits

67-56-1	Methanol	200 ppm (8 h)	250 ppm (15 min)
		270 mg/m ³ (8 h)	330 mg/m ³ (15 min)

8.1.2 Other information on limit values

No information available.

8.1.3 Limit values in other countries

No information available.

8.1.4 DNELs

No information available.

8.1.5 PNECs

No information available.

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Protective gloves

8.2.2 Individual protection measures**8.2.2.1 Respiratory protection**

Wear respirator if necessary. (gas filter type A2).

8.2.2.2 Hand protection

Protective gloves, e.g. Viton, Neoprene gloves, Polyvinyl alcohol or nitrile- butyl-rubber gloves.

8.2.2.3 Eye protection

Face-shield, if there is a risk of spashing.

8.2.2.4 Skin and body protection

Lab coat.

8.2.3 Environmental exposure controls

The product should not be allowed to enter drains, water courses or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

Red liquid.

9.1.2 Odour

With a weak smell.

9.1.3 Odour threshold

No information available.

9.1.4 pH

2.5

9.1.5 Melting point/freezing point

No information available.

9.1.6 Initial boiling point and boiling range

approx. 100 °C (water)

9.1.7 Flash point

11 °C (Methanol)

9.1.8 Evaporation rate

No information available.

9.1.9 Flammability (solid, gas)

No information available.

9.1.10 Explosive properties**9.1.10.1 Lower explosion limit**

6.7 %

9.1.10.2 Upper explosion limit

36.5 % (Methanol)

9.1.11 Vapour pressure

No information available.

9.1.12 Vapour density

No information available.

9.1.13 Relative density

No information available.

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9.1.14	Solubility(ies)	
9.1.14.1	Water solubility	No information available.
9.1.14.2	Fat solubility (solvent - oil to be specified)	No information available.
9.1.15	Partition coefficient: n-octanol/water	Methanol, log K_{OW} = -0.7
9.1.16	Auto-ignition temperature	No information available.
9.1.17	Decomposition temperature	No information available.
9.1.18	Viscosity	No information available.
9.1.19	Explosive properties	No information available.
9.1.20	Oxidising properties	No information available.
9.2	Other information	-

10. STABILITY AND REACTIVITY

10.1	Reactivity	No information available.
10.2	Chemical stability	No information available.
10.3	Possibility of hazardous reactions	No information available.
10.4	Conditions to avoid	Must not be stored in the heat or near hot objects.
10.5	Incompatible materials	No information available.
10.6	Hazardous decomposition products	Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
11.1.1	Acute toxicity	Methanol: LD50/oral/rat = 5 600 mg/kg LC50/inhalation/4h/rat = 64 000 ppm
11.1.2	Irritation and corrosion	Irritating to eyes, respiratory system and skin.
11.1.3	Sensitisation	No information available.
11.1.4	Subacute, subchronic and prolonged toxicity	No information available.
11.1.5	STOT-single exposure	Excessive exposures may affect human health, as follows: headache, Nausea, Vomiting, Abdominal pain, Impairment of vision. Symptoms of poisoning may develop many hours after exposure. Danger of serious damage to health by prolonged exposure.
11.1.6	STOT-repeated exposure	No information available.
11.1.7	Aspiration hazard	No information available.
11.1.8	Other information on acute toxicity	No information available.

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12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**
No information available.
- 12.1.2 Toxicity to other organisms**
No information available.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
Methanol:
Decomposes in contact with water.
- 12.2.2 Chemical degradation**
The half-life of methanol is 18 d when it reacts in the air with photochemically formed hydroxyl compounds.
- 12.3 Bioaccumulative potential**
No information available.
- 12.4 Mobility in soil**
Diffuses in the environment with water.
- 12.5 Results of PBT and vPvB assessment**
No information available.
- 12.6 Other adverse effects**
No information available.

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
The product has to be disposed of as laboratory chemical in accordance with local regulations.
- 13.2 Waste from residues / unused products**
No information available.

14. TRANSPORT INFORMATION

- 14.1 UN number** Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR
- 14.2 UN proper shipping name**
- 14.3 Transport hazard class(es)**
- 14.4 Packing group**
- 14.5 Environmental hazards**
- 14.6 Special precautions for users**
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

15. REGULATORY INFORMATION

- The product is classified and labelled in accordance with Directive 1999/45/EC.
- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No information available.
- 15.2 Chemical safety assessment**
No information available.

16. OTHER INFORMATION

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16.1 Additions, Deletions, Revisions

Safety data sheet template.

16.2 Key or legend to abbreviations and acronyms

No information available.

16.3 Key literature references and sources for data

This product has been evaluated in accordance with the directives 1967/548/EEC, 1999/45/EC and 2001/58/EC. The SDS of the manufacturer.

16.4 Classification procedure

The product is classified and labelled in accordance with Directive 1999/45/EC.

16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

R11 Highly flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

16.6 Training advice

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16.7 Recommended restrictions

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16.8 Additional information available from:

Code of the Safety Data Sheet: D01324-04-01_SDS-U/CSF Protein-EN

Corporation mentioned in point 1.3.

The information in this datasheet is to our best knowledge correct and complete, and is offered in good faith as accurate. It characterizes the product with regard to the appropriate safety precautions. It does not guarantee properties of the product.

6.10.2011

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