

SAFETY DATA SHEET
Hemolysis Assay for solutes



1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product name: Hemolysis Assay for solutes testkit (K007)
1.2 Recommended use: For research use only
1.3 Manufacturer: Haemoscan BV
Stavangerweg23-23
9723 JC Groningen
The Netherlands
Tel. +31 50 7370187
mail@haemoscan.com

2 HAZARDS IDENTIFICATION

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Acute toxicity, (Category 4) H302: Harmful if swallowed.
Skin irritation, (Category 2) H315: Causes skin irritation.
Serious eye damage, (Category1) H318: Causes serious eye damage.
Short-term (acute) aquatic hazard, (Category 1) H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, (Category 1) H410: Very toxic to aquatic life with long lasting effects.

3 COMPOSITION, INFORMATION ON INGREDIENTS

Component code	Name
K007-1	Erythrocyte concentrate
K007-2	Assay buffer
K007-3	Lysis fluid
K007-4	Reference sample

Hazard classification: None
CAS No: None

4 FIRST-AID MEASURES

4.1 General: Miscible with water.
4.2 Eyes: rinse out with plenty of water. Immediately call in ophthalmologist.
Remove contact lenses.
4.3 Skin contact: Take off immediately all contaminated clothing. Wash with water.
4.4 Ingestion: immediately make victim drink water (two glasses at most). Consult a

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physician.

4.5 Inhalation: fresh air.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media: Use extinguishing media appropriate for surrounding fire.

5.2 Flammable properties: Not flammable. This product does not present any fire or explosion hazard.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear gloves, other protection is not necessary.

6.2 Cleanup procedures: Immediately clean up any spillage of specimens with 70% ethanol, or a 1:10 dilution of 5% sodium hypochlorite, or with a similar solution.

7 HANDLING AND STORAGE

7.1 Handling precautions: No special precautions.

7.2 Storage: Store at 4-6 °C.

8 EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1 General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

8.2 Eye protection: Eye protection is recommended.

8.3 Protection of hands: When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Material: butyl-rubber

Minimum layer thickness: 0,7 mm

Break through time: 480 min

Material tested: Butoject® (KCL 898)

8.4 Ventilation: Recommended Filter type: Filter A-(P2)

8.5 Protective clothing: Protective clothing.

8.6 Control of environmental exposure: Do not let product enter drains.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance: Liquid.

9.2 Color: Colorless.

9.3 Solubility: Miscible with water.

9.4 Specific gravity: Not applicable

9.5 pH-value: 6-8

10 STABILITY AND REACTIVITY

10.1 Hazardous reactions: Not known.

10.2 Hazardous decomposition products: None

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11 TOXICOLOGICAL INFORMATION

11.1 Acute toxicity: LD50 Oral - Rat - 1.900 - 5.000 mg/kg

Remarks: (External MSDS)

Symptoms: Vomiting, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract., Risk of aspiration upon vomiting., Aspiration may cause pulmonary edema and pneumonitis.

Acute toxicity estimate Oral - 1.900 mg/kg
(ATE value derived from LD50/LC50 value)

LD50 Dermal - Rabbit - > 3.000 mg/kg

LD50 Dermal - Rabbit - > 3.000 mg/kg

11.2 Skin effects: irritating.

11.3 Eye effects: Eyes - Rabbit

Result: Risk of serious damage to eyes.

(Draize Test)

Remarks: Risk of corneal clouding.

11.4 Inhalation: No data available

11.5 Reproductive toxicity: Ingestion of excessive amounts by pregnant animals resulted in maternal and fetal toxicity. Did not show teratogenic effects in animal experiments.

12 ECOLOGICAL INFORMATION

Toxicity to fish LC50

- Pimephales promelas (fathead minnow) - 4 - 8,9 mg/l - 96 h
semi-static test LC50 - Leuciscus idus (Golden orfe) - 0,26 mg/l - 96h
(OECD Test Guideline 203)

Toxicity to fish

Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

Toxicity to daphnia and other aquatic invertebrates

LC50 - Daphnia magna (Water flea) - 18 - 26 mg/l - 48 h

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - 0,011 mg/l - 48 h
Remarks: (ECOTOX Database)
The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

Toxicity to algae

static test EC50 - Pseudokirchneriella subcapitata (green algae) - 1,9 mg/l - 96 h
Remarks: (ECHA)
The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

Toxicity to fish(Chronic toxicity)

flow-through test - Danio rerio (zebra fish) - 0,012 mg/l

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(OECD Test Guideline 210)

Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)

semi-static test NOEC - Daphnia magna (Water flea) - 0,03 mg/l - 21 d (OECD Test Guideline 202)

Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

13 PERSISTENCE AND DEGRADABILITY

13.1 Biodegradability aerobic - Exposure time 28 d

Result: 22 % - Not readily biodegradable.

(OECD Test Guideline 301C)

14 DISPOSAL CONSIDERATION

14.1 General information: Disposal should be made in accordance with existing disposal practices employed for biological material

15 TRANSPORT INFORMATION

15.1 General Information: Transportation of the product is not regulated by Haemoscan. Fragile containers, handle with care.

16 REGULATORY INFORMATION

16.1 EU regulations: This product is not in accordance with danger material regulation and the appropriate European Union guidelines marking requiring.

17 OTHER INFORMATION

H302	Harmful if swallowed.
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This Safety Data Sheet complies with the European Community Directive 1907/2006/EG. All information and instructions provided in this Safety Data Sheet are based on the current state of scientific and technical knowledge at the date indicated on this Safety Data Sheet. Haemoscan shall not be held responsible for any defect in the product covered by this Safety Data Sheet, should the existence of such a defect not be detectable considering the current state of scientific and technical knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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