

TB Fluorescent I Kit

Material Safety Data Sheet

According to 91/155/EC

This product is comprised of 3 components, each of which have separate Safety Data Sheets following to form this MSDS.

TB Auramine

TB Differentiator

TB Thiazine

TB Auramine

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

1.1 Product identifiers

Product name : TB Fluorescent I Kit - TB Auramine

Product code: SP600

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

Identified uses: Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Gainland Chemical Company
Factory road
Sandycroft
Deeside
Flintshire
CH5 2QJ
UNITED KINGDOM
+44 (0)1244 536326
gccreagents@gmail.com

1.4 Emergency telephone number

+44 (0)1244 536326

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3: H226; Aquatic Chronic 3: H412; Muta. 2: H341; Skin Corr. 1B: H314; Eye

Dam. 1: H318

TB Fluorescent I Kit

2.2 Label elements

Pictogram



Signal word Danger

Hazard statements(s)

H301+311+332 Toxic if swallowed, by skin contact and inhalation.

H319 Causes serious eye irritation.

P260 Do not breathe vapor.

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Solution contains organic dyestuffs <1%, Alcohols <15% Glycols <15% Phenol <5%, balance water.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Seek medical attention if symptoms persist.

In case of skin contact

The product will stain skin. Wash off with several application of soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution. Seek medical attention.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Eye and skin irritation and discolouration. The harmful/toxic substances in this product can be absorbed through skin. Phenol in particular is strongly absorbed through the skin. In serious cases phenol poisoning may result in damage/paralysis of central nervous system (CNS) as well as liver and kidney damage. Toxic if ingested. Swallowing these substances will discolour internal cells, cause irritation possible burns (from phenol) nausea, vomiting, headache are likely.

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO_x), Hydrogen chloride gas

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources.

6.2 Environmental precautions

no data available

6.3 Methods and materials for containment and cleaning up

Measures for cleaning/collecting: Absorb with cloths or liquid-binding material (sand, mica- vermiculite, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Keep away from ignition sources. Wash area to public sewer with water.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Standard precautions is the handling of laboratory reagents should be followed. Normal measures for preventive fire protection. Ensure good ventilation/exhaustion at the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Keep out of direct sunlight. Do not store together with oxidising materials.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure control/personal protection

8.1 Control parameters

Components with workplace control parameters

Phenol

This product contains less than 5% phenol.
No safe exposure limit has been identified, the Health & Safety Advisory Committee on Toxic Substances Has set a maximum exposure limit (MEL) on Phenol at:

8hr TWA 2 ppm

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection will be required if this reagent is used in a hot or poorly ventilated place. We advise that this product be used only in an efficient fume hood or a very well ventilated place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: yellow liquid
b) Odour	Phenolic
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	>80°
g) Flash point	20°C
h) Evaporation rate	No data available
i) Flammability (solid, gas)	Not, but combustible.
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	At 20°C, 0.98g/cm ³
n) Water solubility	Fully soluble
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
t) Oxidizing properties	No data available

9.2 Other safety information

no data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Avoid sources of ignition – product is not flammable but is combustible.

10.5 Incompatible materials

Oxidising agents, alkali metals.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

Repeated administration leads to changes of internal organs, the immune system and the central nervous system.

Aspiration hazard

no data available

Potential health effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

LC50 inhalation 4hr (rat) 316mg/l

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Ingestion

May be harmful if swallowed.

Skin

Can be absorbed through the skin. Contact with skin and mucous membrane causes burns. Absorption through the skin in large quantities may result in death by paralysis of the central nervous system.

LD50 dermal (rat) 525 – 714 mg/kg

Eyes

Causes serious eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

none

SECTION 12: Ecological information

Phenol

Ecotoxicity

Aquatic toxicity EC50 – 8d 7.5 mg/l (selenastrum capricornutum) LC50 – 48h
3.1mg/l (ceriodaphnia dubia)
LC50 – 96h 5.0mg/l (oncorhynchus mykiss)

Behaviour in Sewerage

works EC50 – 3h 799mg/l (communal activated sludge) EC50 – 5m
18mg/l (photobacterium phosphoreum)

Mobility

On the basis of its solubility in water and assessment of the determined ground Absorption coefficients enrichment of phenol in the soil is not expected

Persistence and degradability

Abiotic degradation	Medium	Mechanism	Half-life
	Air	Photo-oxidation	14 hours
	Water (near surface)	Photolysis	176 hours
	Water (1m depth)	Photolysis	19 hours

Biological degradation

Easily biologically biodegradable
85% (14 days) 86% (20 days)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Dispose of waste reagents to public sewer, diluting greatly with water.

Contaminated packaging

Rinse and treat as general waste.

SECTION 14: Transport information

14.1 UN number

ADR/RID: 2810

IMDG: -

IATA: -

14.2 UN proper shipping name

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ADR/RID: Toxic liquids, organic, n.o.s. or Toxic, liquids, organic, n.o.s. Inhalation Hazard, Packing Group I, Zone A or B

IMDG: -

IATA: -

14.3 Transport hazard class(es)

ADR/RID: 6.1

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: III

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

14.6 Special precautions for user

no data available

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

no data available

TB Differentiator

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

1.1 Product identifiers

Product name : TB Fluorescence I Kit - TB Differentiator

Product code: SP600

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

Identified uses: Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Gainland Chemical Company

Factory road

Sandycroft

Deeside

Flintshire

CH5 2QJ

UNITED KINGDOM

+44 (0)1244 536326

gccreagents@gmail.com

1.4 Emergency telephone number

+44 (0)1244 536326

TB Fluorescent I Kit

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2: H225; STOT SE 2: H371; Acute Tox. 4: H302

2.2 Label elements

Pictogram



Signal word Danger

Hazard statements(s)

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H371 May cause damage to organs.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe fumes/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor.

2.3 Other hazards - In use, may form flammable / explosive vapour-air mixture.

SECTION 3: Composition/information on ingredients

3.1 Substances

Product details: >50% ethanol containing < 3% mineral acid

Ethanol

EINECS	CAS	CHIP Classification	CLP Classification	Percentage
200-578-6	64-17-5	Substance with a Community work-place exposure limit.	Flam. Liq. 2: H225	>90%

Methanol

EINECS	CAS	CHIP Classification	CLP Classification	Percentage
200-659-6	67-56-1	—	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370	1-10%

Hydrochloric acid

EINECS	CAS	CHIP Classification	CLP Classification	Percentage
231-595-7	67-56-1	—	Skin Corr. 1B: H314; STOT SE 3: H335	1-10%

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a doctor.

In case of skin contact

Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

In case of eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact

May be harmful if absorbed through the skin. Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. An itchy rash may occur at the site of contact. Blistering may occur.

Eye contact

There may be pain and redness. The eyes may water profusely. The vision may become blurred. Corneal burns may occur.

Ingestion

Toxic if swallowed. There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting.

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation. There may be irritation of the throat with a feeling of tightness in the chest. May cause drowsiness and dizziness. Exposure may cause coughing or wheezing.

Delayed / immediate effects

Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Use water spray to cool unopened containers.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Eliminate all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Refer to section 8 of SDS for personal protection details.

6.2 Environmental precautions

no data available

6.3 Methods and materials for containment and cleaning up

Mop up with cloth and rinse with tap water to public sewer. Ensure adequate ventilation.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid breathing vapours, mist or gas. Do not handle in a confined space. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

7.3 Specific end use(s)

No other specific uses stipulated other than the uses mentioned in section 1.2.

SECTION 8: Exposure control/personal protection

8.1 Control parameters

Components with workplace control parameters

Ethanol

Workplace exposure limits

State	8 hour TWA	15 min. STEL
UK	1920 mg/m ³	—

Respirable dust

8 hour TWA	15 min. STEL
—	—

Methanol

Workplace exposure limits

State	8 hour TWA	15 min. STEL
UK	266 mg/m ³	333 mg/m ³

Respirable dust

8 hour TWA	15 min. STEL
—	—

Hydrochloric acid

Workplace exposure limits

State	8 hour TWA	15 min. STEL
UK	8 mg/m ³	8 mg/m ³

Respirable dust

8 hour TWA	15 min. STEL
–	–

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: clear liquid
b) Odour	Alcoholic
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	16°C
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	Soluble
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

no data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under normal conditions. Stable at room temperature.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to avoid

Heat. Hot surfaces. Sources of ignition. Flames.

10.5 Incompatible materials

Strong oxidising agents. Alkali metals. Peroxides.

10.6 Hazardous decomposition products

Other decomposition products - no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Ethanol

IVN	RAT	LD50	1440	mg/kg
ORL	MUS	LD50	3450	mg/kg
ORL	RAT	LD50	7060	mg/kg

Toxicity values: No data available.

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

TB Fluorescent I Kit

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation. There may be irritation of the throat with a feeling of tightness in the chest. May cause drowsiness and dizziness. Exposure may cause coughing or wheezing.

Ingestion

Toxic if swallowed. There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting.

Skin

May be harmful if absorbed through the skin. Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. An itchy rash may occur at the site of contact. Blistering may occur.

Eyes

There may be pain and redness. The eyes may water profusely. The vision may become blurred. Corneal burns may occur.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

none

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

Soluble in water.

12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Dispose of waste reagents to public sewer, diluting greatly with water.

TB Fluorescent I Kit

Contaminated packaging

Rinse and treat as general waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information

14.1 UN number

UN number: UN1170

14.2 UN proper shipping name

Shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3 Transport hazard class(es)

ADR/RID: 3

14.4 Packaging group

ADR/RID: 2

14.5 Environmental hazards

ADR/RID: no

14.6 Special precautions for user

no data available

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

TB Thiazine red counterstain

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

1.1 Product identifiers

Product name : TB Fluorescent I Kit - TB Thiazine red counterstain

Product code: SP600

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

Identified uses: Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Gainland Chemical Company

Factory road

Sandycroft

Deeside

Flintshire

CH5 2QJ

UNITED KINGDOM

TB Fluorescent I Kit

+44 (0)1244 536326
gccreagents@gmail.com

1.4 Emergency telephone number

+44 (0)1244 536326

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements

Pictogram



Signal word

None

Hazard statements(s)

H412 Harmful to aquatic life with long lasting effects.

H302 Harmful if swallowed

H303 May be harmful if swallowed

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Aqueous solution of Thiazine red.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Standard precautions in the handling of laboratory reagents should be followed. Avoid breathing vapors, mist or gas.

6.2 Environmental precautions

no data available

6.3 Methods and materials for containment and cleaning up

Mop up with cloth and rinse with tap water to public sewer.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature 2 - 8 °C

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8. Exposure control/personal protection

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: red liquid
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	Soluble
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

no data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available

Other decomposition products - No data available In the event of fire: see section 5

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

TB Fluorescent I Kit

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12. Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Dispose of waste reagents to public sewer, diluting greatly with water.

Contaminated packaging

Rinse and treat as general waste.

SECTION 14. Transport information

14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

TB Fluorescent I Kit

14.6 Special precautions for user

no data available

SECTION 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

no data available