



Material Safety Data Sheet According to 91/155 EEC

Printing date 19.09.2005

Reviewed on 19.09.2005

* 1 Identification of substance:

- **Product details:** Reagent for water analysis
- **Product name:** Thymolblue Photometer
- **Catalog number:** 00515719, (4)515710, (4)515711
- **Supplier:**
Tintometer GmbH
Schleefstraße 8a-12
D - 44287 Dortmund
Made in Germany
- **Informing department:** Department Laboratory
- **Emergency information:**
Poison Center Berlin, Germany
phone: +49(0)30 19240

phone: +49(0)231 94510-0

2 Composition/Data on components:

- **Chemical characterization:**
- **CAS No. Designation:**
7447-40-7 potassium chloride
- **Identification number(s):**
- **EINECS Number:** 231-211-8

* 3 Hazards identification

- **Hazard designation:** void
- **Information pertaining to particular dangers for man and environment** void

* 4 First aid measures

- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing**
Drink copious amounts of water, induce vomiting.
In case of persistent symptoms consult doctor.
- **The following symptoms may occur:**
After swallowing of large amounts:
sickness
vomiting
- **Danger**
Danger of system failure.
Danger of disturbed cardiac rhythm.

* 5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.

(Contd. on page 2)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 19.09.2005

Reviewed on 19.09.2005

Product name: Thymolblue Photometer

(Contd. of page 1)

· Special hazards caused by the material, its products of combustion or resulting gases:

Formation of toxic gases is possible during heating or in case of fire.

Hydrogen chloride (HCl)

dipotassium oxide

· Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

· Additional information

Ambient fire may liberate hazardous vapours.

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

*** 6 Accidental release measures****· Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.**· Measures for environmental protection:** Do not allow product to reach sewage system or water bodies.**· Measures for cleaning/collecting:**

Dispose of contaminated material as waste according to item 13.

Collect mechanically.

Ensure adequate ventilation.

· Additional information: No dangerous materials are released.

*** 7 Handling and storage****· Handling****· Information for safe handling:** No special measures required.**· Information about protection against explosions and fires:** The product is not flammable**· Storage****· Requirements to be met by storerooms and containers:** Store in cool location.**· Information about storage in one common storage facility:** Store away from oxidizing agents.**· Further information about storage conditions:**

Protect from heat and direct sunlight.

Store under dry conditions.

Protect from humidity and keep away from water.

Protect from the effects of light.

· Storage class Not required.

*** 8 Exposure controls and personal protection****· Additional information about design of technical systems:** No further data; see item 7.**· Components with limit values that require monitoring at the workplace:** Not required.**· Additional information:** The lists that were valid during the compilation were used as basis.**· Personal protective equipment****· General protective and hygienic measures**

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

· Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.**· Recommended filter device for short term use:** Filter P1**· Protection of hands:** Preventive skin protection by use of skin-protecting agents is recommended.**· Material of gloves**

nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 3)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 19.09.2005

Reviewed on 19.09.2005

Product name: Thymolblue Photometer

(Contd. of page 2)

Value for the permeation: Level ≥ 6 (480 min)

- **Eye protection:** Safety glasses
 - **Body protection:** Protective work clothing.
-

* 9 Physical and chemical properties:

· Form:	Tablets
· Colour:	Orange
· Odour:	Odourless
· Melting point/Melting range:	773°C
· Boiling point/Boiling range:	1413°C
· Flash point:	Not applicable
· Inflammability (solid, gaseous)	Product is not inflammable.
· Danger of explosion:	Product is not explosive.
· Density at 20°C	1.984 g/cm ³
· Settled apparent density at 20°C	~ 1000 kg/m ³
· Solubility in / Miscibility with Water at 20°C:	330 g/l
· pH-value (11.9 g/l) at 20°C:	5.5
· Organic solvents:	0.0 %
· Solids content:	100.0 %

* 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
 - **Materials to be avoided:**
 - acids
 - oxidizing agents
 - > forms heat
 - **Dangerous products of decomposition:** see chapter 5
-

* 11 Toxicological information

- **Acute toxicity:** Quantitative data on the toxicity of the preparation are not available.

· **LD/LC50 values that are relevant for classification:**

7447-40-7 potassium chloride

Oral	LD50	2600 mg/kg (rat)
------	------	------------------

- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** Irritant effect.
 - **Sensitization:** No sensitizing effect known.
 - **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The material is not subject to classification according to EC lists in the last version.

The usual precautionary measures should be adhered to general rules for handling chemicals.
-

— GB —
(Contd. on page 4)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 19.09.2005

Reviewed on 19.09.2005

Product name: Thymolblue Photometer

(Contd. of page 3)

* 12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** Methods for the determination of biodegradability are not applicable to inorganic substances.

· Behaviour in environmental systems:	
7447-40-7 potassium chloride	
log P(o/w)	- 0.46 (.)

- **Ecotoxicological effects:**

· Acquatic toxicity:	
7447-40-7 potassium chloride	
EC50	825 mg/l/48h (Daphnia magna)
LC50	920 mg/l/96h (Gambusia affinis)

- **General notes:**

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

* 13 Disposal considerations

- **Product:**
- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue	
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

* 14 Transport information

· Land transport ADR/RID (cross-border)	
· ADR/RID-GGVS/E Class: -	
· Maritime transport IMDG:	
· IMDG Class:	-
· Marine pollutant:	No
· Air transport ICAO-TI and IATA-DGR:	
· ICAO/IATA Class:	-

- **Transport/Additional information:** Not dangerous according to the above specifications.

* 15 Regulatory information

- **Designation according to EC guidelines:**

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:** Technical Department

- *** Data compared to the previous version altered.**
