

---

## SAFETY DATA SHEET

---

### 1 Identification of the substance or preparation and of the company/undertaking

#### 1.1 Product identifier

Product Name: COPPER PHOTOMETER MO405-2

Datasheet Number: 777083-2 1. 0. 0

Product Part Number: 777083

Part of: products in this kit: COPPER PHOTOMETER MO405-2/COPPER PHOTOMETER MO405-1

Head Office: Willhelmsen Ships Service AS

Address: Strandveien 20, N1324 Lysaker, Norway, Tel:(+47) 67 58 45 50

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

##### Reagent

#### 1.3 Details of the supplier of the safety data sheet

Name of Supplier: For quotations contact your local Customer Services

Address of Supplier: Wilhelmsen Ships Service AS  
Willem Barentszstraat 50  
3165AB Rotterdam  
+31 4877 888  
The Netherlands

Telephone: +31 4877 777

Fax:

Responsible Person: , Product HSE Manager, Tel.: +31 10 4877775

Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com

#### 1.4 Emergency telephone number

-ONLY TO BE USED IN CASE OF AN INCIDENT-

NCEC: +44 1865 407333, CHEMTREC (800) 424 9300

American Chemistry Council +1 703 527 3887,

Greece +30 210 7793777

Australia: +61 3 9630 0998

Giftinformasjonssentralen in Norway Tel.: +47 22591300

---

### 2 Hazards identification

#### 2.1 Classification of the substance or mixture

- Counsil Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Acute Tox. 4
- Aquatic Chronic 3

#### 2.2 Label elements



- Signal Word: Warning

**2 Hazards identification (....)****Hazard phrases**

- Harmful if swallowed.
- Harmful to aquatic life with long lasting effects.

**Precautionary Phrases**

- Wash hands and working surfaces thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Rinse mouth.

**Risk Phrases**

- Harmful if swallowed (R22)

**Safety Phrases**

- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label (S62)

**2.3 Other hazards**

- Odour: Odourless
- Appearance: Tablets, white, soluble in water
- Contact with eyes: May cause redness and irritation
- Contact with skin: May cause redness and irritation
- Inhalation: In cases of severe exposure, coughing may develop, In cases of severe exposure, shortness of breath may develop
- Ingestion: The ingestion of significant quantities may cause dizziness, confusion, headache or stupor

**3 Composition/information on ingredients****3.1 Mixtures**

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
SODIUM NITRITE	1-5%	7632-00-0	231-555-9	R8, 25 50	O, N
CLP classification:				H272, H301	GHS03, GHS06
Ox. Sol.3, Acute Tox.3				H400	GHS09
Aquatic Acute 1					

\*See Section 16

**4 First aid measures****4.1 Description of first aid measures**

- IF ON SKIN: Gently wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Give plenty of water to drink
- Never make an unconscious person vomit or drink fluids

## **COPPER PHOTOMETER MO405-2**

---

### **4 First aid measures (....)**

- When in doubt or symptoms persist, seek medical attention

#### 4.2 Most important symptoms and effects, both acute and delayed

- Possible redness and irritation of affected areas
- The ingestion of significant quantities may cause dry throat
- The ingestion of significant quantities may cause nausea/vomiting
- May cause wheeziness
- May cause coughing

#### 4.3 Indication of immediate medical attention and special treatment needed

-

---

### **5 Fire-fighting measures**

#### 5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

#### 5.2 Special hazards arising from the substance or mixture

- See Section 10
- Smoke from fires is irritating

#### 5.3 Advice for firefighters

- Wear chemical protection suit and positive-pressure breathing apparatus

---

### **6 Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Wash thoroughly after dealing with spillage

#### 6.2 Environmental Precautions

- Do not flush spilt material into any public water system
- Avoid release to the environment.

#### 6.3 Methods and material for containment and cleaning up

- Place in sealable container
- Seal containers and label them
- Wash thoroughly after dealing with spillage

#### 6.4 Reference to other sections

- None

---

### **7 Handling and storage**

#### 7.1 Precautions for safe handling

- Do not get in eyes, on skin, or on clothing.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Eyewash bottles should be available
- Ensure adequate ventilation
- See Section 8

## **COPPER PHOTOMETER MO405-2**

---

### **7 Handling and storage (....)**

#### 7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool, dry, well ventilated place
- Keep container tightly closed.
- Keep only in original container.

#### 7.3 Specific end use(s)

- Restricted to professional users

---

## **8 Exposure controls/personal protection**

### 8.1 Control parameters

- No exposure limits have been set for this substance
- SODIUM NITRITE  
TLV (TWA) 1 mg/m<sup>3</sup> ( )

### 8.2 Exposure controls

- Ensure adequate ventilation

#### Occupational exposure controls

- Wear neoprene or nitrile gloves
- Wear goggles giving complete eye protection



---

## **9 Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: Tablets, white, soluble in water
- pH 6.1
- Boiling point 1413 °C
- Melting point 773 °C
- Completely soluble in water
- Flash point >93 deg C (CC)

### 9.2 Other information

- None

---

## **10 Stability and reactivity**

### 10.1 Reactivity

- This article is considered stable under normal conditions

### 10.2 Chemical stability

- This article is considered stable under normal conditions

---

## **COPPER PHOTOMETER MO405-2**

---

### **10 Stability and reactivity (....)**

#### 10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

#### 10.4 Conditions to avoid

- Keep away from heat (S15)

#### 10.5 Incompatible materials

- Incompatible with acid
- Incompatible with oxidizing substances

#### 10.6 Hazardous Decomposition Products

- Decomposition products may include hydrogen chloride
- Decomposition products may include nitrogen oxides

---

## **11 Toxicological information**

### 11.1 Information on toxicological effects

- No experimental data available

#### Inhalation

- In cases of severe exposure, dry throat may develop
- In cases of severe exposure, nausea/vomiting may develop

#### Contact with skin

- May cause redness and irritation

#### Contact with eyes

- May cause irritation

#### Ingestion

- The ingestion of significant quantities may cause nausea/vomiting
- In cases of severe exposure, dry throat may develop

---

## **12 Ecological information**

### 12.1 Toxicity

- Not available

### 12.2 Persistence and degradability

- No information available

### 12.3 Bioaccumulation Potential

- Low bioaccumulation potential

### 12.4 Mobility in soil

- Not available

### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

### 12.6 Other Adverse Effects

- No information available

## **13 Disposal considerations**

### 13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Dispose of contents/container to an authorised waste collection point

### Classification

- EU Waste class: 16-05-06

---

## **14 Transport information**

### 14.1 UN Number

- n/a

### 14.2 UN Proper Shipping Name

- n/a

### 14.3 Transport hazard class(es)

- n/a

### 14.4 Packing group

- n/a

### 14.5 Environmental hazards

- Presents little or no hazard to the environment

### 14.6 Special precautions for user

- Not classified as hazardous for transport

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

### Other information

---

## **15 Regulatory information**

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

- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.

### 15.2 Chemical Safety Assessment

None

---

## **16 Other information**

Text of R and S phrase codes used in this safety data sheet:- H272: May intensify fire; oxidizer.; H301: Toxic if swallowed.; H400: Very toxic to aquatic life.; R25: Toxic if swallowed; R50: Very toxic to aquatic organisms; R8: Contact with combustible material may cause fire.

**16 Other information (....)**

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The most up-to-date version of this MSDS can be found on [www.wilhelmsen.com/shipsservice](http://www.wilhelmsen.com/shipsservice)

**OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES**

For addresses of other Wilhelmsen Ships Service offices, please refer to [www.wilhelmsen.com/shipsservice](http://www.wilhelmsen.com/shipsservice)

Wilhelmsen Ships Service Level 1, 39 Park Street South Melbourn, Vic 3205 Australian Tel:+61 3 9630 0900  
Emergency 24hrs: +61 3 9630 0998

Wilhelmsen Ships Service INC 210 Edgewater Street US-10305 Staten Island New York United States Telephone  
daytime: (+1) 718 815 1310 Fax: (+1) 718 233 3268

Wilhelmsen Ships Service INC 2200 W. Pacific Coast Highway US-90810 Long Beach California, United States  
Tel (+1) 562 624 8888 Fax (+1) 562 624 1011

Wilhelmsen Ships Service INC 701 Ashland Ave. Ashland Center Two, Bay 12 US- 19032 Folcroft Pennsylvania  
United States Tel (+1) 610 586 7801 Fax (+1) 215 701 0646

Wilhelmsen Ships Service INC. 9400 New Century Drive US-77507 Pasadena Texas United States Telephone  
daytime: (+1) 281 867 2000 Fax: (+1) 281 867 2800

Wilhelmsen Ships Service Ltd. Unit 3A NewtonsCourt Crossways DA2 6QL Dartford, Kent United Kingdom Tel  
(+44) 1322 282 412 Fax (+44) 1322 284 774

Wilhelmsen Ships Service Ltda Rua Bispo Lacerda nos.61/67 Del Catilho BR 21051120 Rio de Janeiro Brazil Tel  
(+55) 21 25 82 8000 Fax (+55) 21 25 82 8001

Wilhelmsen Ships Service (S) Pte Ltd 186 Pandan Loop Singapore 128376 Tel (+65) 6395 4545

Wilhelmsen Ships Service Co., Ltd 12-31 Torihama-cho Kanazawa-ku Yokohama-shi JP-236 0002, Japan Tel  
(+81) 45 775 0012 Fax (+81) 45 775 0070

Wilhelmsen Ships Service Hellas SA 100, D. Moutsopoulou & Serifou str GR-185 41 Piraeus Greece Tel (+ 30)  
210 4239100 Fax (+ 30) 210 4212480

WMS AS U.A.E. Fl 24 Executive Heights, Tecom C Sheikh Zayed Road (East) Dubai United Arab Emirates Tel  
(+971) 4 382 3888

