

## Octopol STC-25

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

#### 1.1 Product identifier

##### Trade name

### Octopol STC-25

##### Substance name

Reaction products of sodium sulphide, sulphur, carbon disulphide and potassium hydroxide

##### REACH registration no.

01-2120733579-43

##### Identification numbers

##### EC no.

944-003-3

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

##### Relevant identified uses of the substance or mixture

Water treatment chemicals

##### Uses advised against

The substance is handled only under 'Strictly Controlled Conditions'

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

##### Address

Tiarco Chemical Europe GmbH  
Am Gut Baarking 12  
46395 Bocholt

##### Telephone no.

+49 2871 23476-0

##### Fax no.

+49 2871 23476-44

##### e-mail

europeansales@trcc.com

##### Advice on Safety Data Sheet

sdb\_info@umco.de

#### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Eye Dam. 1; H318

Skin Corr. 1C; H314

##### Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3 and 4 of Annex I to CLP.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

##### Product identifier

944-003-3 (Reaction products of sodium sulphide, sulphur, carbon disulphide and potassium hydroxide)

##### Hazard pictograms



GHS05

##### Signal word

Danger

##### Hazard statement(s)

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H314

Causes severe skin burns and eye damage.

**Precautionary statement(s)**

P260

Do not breathe mist/vapours/spray.

P264

Wash thoroughly after handling.

P280

Wear protective gloves/protective clothing/eye protection.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

**2.3 Other hazards**Contact with acids liberates very toxic gas.: Hydrogen sulfide (H<sub>2</sub>S) and Carbon Disulphide (CS<sub>2</sub>)

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances****Chemical characterization**

Substance name Reaction products of sodium sulphide, sulphur, carbon disulphide and potassium hydroxide

Degree of purity 100 %

**Identification numbers**

EC no. 944-003-3

**3.2 Mixtures**

Not applicable. The product is not a mixture.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

If the patient is likely to become unconscious, place and transport in stable sideways position. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

**After inhalation**

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Take medical treatment.

**After skin contact**

Wash immediately with plenty of water for several minutes. Seek medical attention.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

**After ingestion**

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

No data available.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; Carbon dioxide; Extinguishing powder; Foam; Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

**Unsuitable extinguishing media**

High power water jet

**Octopol STC-25****5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Sulphur oxides (SxO<sub>y</sub>); Metal oxides

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear full protective suit. Cool endangered containers with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Do not inhale vapours. Keep away from ignition sources.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

Pump off large amounts. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

**6.4 Reference to other sections**

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation at the work area (local exhaust ventilation, if necessary). For personal protection see section 8. Avoid contact with skin and eyes. Do not breathe steams or mist of the product.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Remove soiled or soaked clothing immediately. Provide eye wash fountain in work area. Have emergency shower available. Do not inhale vapours.

**Advice on protection against fire and explosion**

Pay attention to general rules of internal fire prevention. Keep away from sources of heat and ignition. Take precautionary measures against static charges.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed in a cool, well-ventilated place. Keep from freezing.

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

**Incompatible products**

Substances to be avoided, see section 10.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

No parameters available for monitoring.

**8.2 Exposure controls**

**Appropriate engineering controls**

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Ensure adequate ventilation, local exhaust at the work station if necessary.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material neoprene

Appropriate Material Natural rubber, NR

#### Other

Chemical-resistant work clothes.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |                              |
|---|------------------------------|
| <b>State of aggregation</b>                     |                              |
| liquid  |                              |
| <b>Colour</b>                                   |                              |
| light red                                       |                              |
| <b>Odour</b>                                    |                              |
| sulphur-like                                    |                              |
| <b>pH value</b>                                 |                              |
| Value   | appr. 12 - 12.4              |
| Source  | supplier                     |
| <b>Boiling point / boiling range</b>            |                              |
| Value   | appr. 100 °C                 |
| Source  | supplier                     |
| <b>Melting point/freezing point</b>             |                              |
| Value   | appr. 0 °C                   |
| Source  | supplier                     |
| <b>Decomposition temperature</b>                |                              |
| No data available                               |                              |
| <b>Flash point</b>                              |                              |
| Not applicable                                  |                              |
| Source  | supplier                     |
| <b>Ignition temperature</b>                     |                              |
| No data available                               |                              |
| <b>Auto-ignition temperature</b>                |                              |
| Source  | supplier                     |
| Comments  | Product is not selfigniting. |
| <b>Oxidising properties</b>                     |                              |
| not oxidizing                                   |                              |
| <b>Explosive properties</b>                     |                              |
| The product does not have explosive properties. |                              |
| <b>Flammability</b>                             |                              |

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|   |  |                              |           |
|---|--|------------------------------|-----------|
| Not applicable                                    |  |                              |           |
| Source  |  | supplier                     |           |
| Lower explosion limit                             |  |                              |           |
| Not applicable                                    |  |                              |           |
| Source  |  | supplier                     |           |
| Upper explosion limit                             |  |                              |           |
| Not applicable                                    |  |                              |           |
| Source  |  | supplier                     |           |
| Vapour pressure                                   |  |                              |           |
| Source  |  | supplier                     |           |
| Comments  |  | similar to water             |           |
| Relative vapour density                           |  |                              |           |
| Source  |  | supplier                     |           |
| Comments  |  | similar to water             |           |
| Evaporation rate                                  |  |                              |           |
| Source  |  | supplier                     |           |
| Comments  |  | similar to water             |           |
| Relative density                                  |  |                              |           |
| No data available                                 |  |                              |           |
| Density   |  |                              |           |
| Value   |  | 1.04     -     1.06     g/ml |           |
| Source  |  | supplier                     |           |
| Solubility in water                               |  |                              |           |
| Source  |  | supplier                     |           |
| Comments  |  | miscible                     |           |
| Solubility  |  |                              |           |
| No data available                                 |  |                              |           |
| Partition coefficient n-octanol/water (log value) |  |                              |           |
| No  | Substance name   | CAS no.                      | EC no.    |
| 1   | Reaction products of sodium sulphide, sulphur, carbon disulphide and potassium hydroxide | -                            | 944-003-3 |
| Not applicable                                    |  |                              |           |
| Source  |  | ECHA                         |           |
| Kinematic viscosity                               |  |                              |           |
| Source  |  | supplier                     |           |
| Comments  |  | similar to water             |           |
| Particle characteristics                          |  |                              |           |

### 9.2 Other information

|                          |
|--------------------------|
| <b>Other information</b> |
| No data available.       |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

Stable under recommended storage and handling conditions (See section 7). Contact with acids liberates very toxic gas.

### 10.4 Conditions to avoid

Exposure to heat, ignition sources. Keep from freezing.

### 10.5 Incompatible materials

Acids

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### 10.6 Hazardous decomposition products

hydrogen sulphide (H<sub>2</sub>S); carbon disulfide; None if stored, handled and transported properly. In case of fire: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

|  |  |   |           |
|--|--|---|-----------|
| <b>Acute oral toxicity</b>               |  |   |           |
| No data available                        |  |   |           |
| <b>Acute dermal toxicity</b>             |  |   |           |
| No data available                        |  |   |           |
| <b>Acute inhalational toxicity</b>       |  |   |           |
| No data available                        |  |   |           |
| <b>Skin corrosion/irritation</b>         |  |   |           |
| No                                       | Substance name   | CAS no.   | EC no.    |
| 1  | Reaction products of sodium sulphide, sulphur, carbon disulphide and potassium hydroxide | -   | 944-003-3 |
| Method                                   |  | OECD 435  |           |
| Source                                   |  | ECHA  |           |
| Evaluation                               |  | corrosive   |           |
| Evaluation/classification                |  | Based on available data, the classification criteria are met.     |           |
| <b>Serious eye damage/irritation</b>     |  |   |           |
| No data available                        |  |   |           |
| <b>Respiratory or skin sensitisation</b> |  |   |           |
| No data available                        |  |   |           |
| <b>Germ cell mutagenicity</b>            |  |   |           |
| No                                       | Substance name   | CAS no.   | EC no.    |
| 1  | Reaction products of sodium sulphide, sulphur, carbon disulphide and potassium hydroxide | -   | 944-003-3 |
| Type of examination                      |  | in vitro gene mutation study in bacteria                          |           |
| Species                                  |  | S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and E. coli WP2    |           |
| Method                                   |  | OECD 471  |           |
| Source                                   |  | ECHA  |           |
| Evaluation/classification                |  | Based on available data, the classification criteria are not met. |           |
| <b>Reproduction toxicity</b>             |  |   |           |
| No data available                        |  |   |           |
| <b>Carcinogenicity</b>                   |  |   |           |
| No data available                        |  |   |           |
| <b>STOT - single exposure</b>            |  |   |           |
| No data available                        |  |   |           |
| <b>STOT - repeated exposure</b>          |  |   |           |
| No data available                        |  |   |           |
| <b>Aspiration hazard</b>                 |  |   |           |
| No data available                        |  |   |           |

### 11.2 Information on other hazards

#### Endocrine disrupting properties

No data available.

#### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

|                                 |
|---------------------------------|
| <b>Toxicity to fish (acute)</b> |
| No data available               |

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|                                      |
|--------------------------------------|
| <b>Toxicity to fish (chronic)</b>    |
| No data available                    |
| <b>Toxicity to Daphnia (acute)</b>   |
| No data available                    |
| <b>Toxicity to Daphnia (chronic)</b> |
| No data available                    |
| <b>Toxicity to algae (acute)</b>     |
| No data available                    |
| <b>Toxicity to algae (chronic)</b>   |
| No data available                    |
| <b>Bacteria toxicity</b>             |
| No data available                    |

### 12.2 Persistence and degradability

| <b>Biodegradability</b> |  |  |           |
|-------------------------|--|--|-----------|
| No                      | Substance name   | CAS no.                                  | EC no.    |
| 1                       | Reaction products of sodium sulphide, sulphur, carbon disulphide and potassium hydroxide | -  | 944-003-3 |
| Source                  |  | ECHA                                     |           |
| Evaluation              |  | Not applicable for inorganic substances. |           |

### 12.3 Bioaccumulative potential

| <b>Partition coefficient n-octanol/water (log value)</b> |  |         |           |
|--|--|---------|-----------|
| No   | Substance name   | CAS no. | EC no.    |
| 1  | Reaction products of sodium sulphide, sulphur, carbon disulphide and potassium hydroxide | -       | 944-003-3 |
| Not applicable   |  |         |           |
| Source   |  | ECHA    |           |

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

|   |   |
|---|---|
| <b>Results of PBT and vPvB assessment</b> |   |
| PBT assessment                            | The product is not considered to be a PBT.  |
| vPvB assessment                           | The product is not considered to be a vPvB. |

### 12.6 Endocrine disrupting properties

No data available.

### 12.7 Other adverse effects

|                                    |
|------------------------------------|
| <b>Other adverse effects</b>       |
| Adverse effect due to pH-shifting. |

### 12.8 Other information

|  |
|--|
| <b>Other information</b>                                   |
| Do not discharge product unmonitored into the environment. |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.  
dispose of in accordance with local regulation.

#### Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

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|                           |   |
|---------------------------|---|
| Class                     | 8   |
| Classification code       | C5  |
| Packing group             | III   |
| Hazard identification no. | 80  |
| UN number                 | UN3266  |
| Proper shipping name      | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. solution |
| Technical name            | Potassium hydroxide, Sodium tetrothiocarbonate      |
| Tunnel restriction code   | E   |
| Label                     | 8   |

### 14.2 Transport IMDG

|                      |   |
|----------------------|---|
| Class                | 8   |
| Packing group        | III   |
| UN number            | UN3266  |
| Proper shipping name | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. Solution |
| Technical name       | Potassium hydroxide, Sodium tetrothiocarbonate      |
| EmS                  | F-A, S-B  |
| Label                | 8   |

### 14.3 Transport ICAO-TI / IATA

|                      |   |
|----------------------|---|
| Class                | 8   |
| Packing group        | III   |
| UN number            | UN3266  |
| Proper shipping name | Corrosive liquid, basic, inorganic, n.o.s. Solution |
| Technical name       | Potassium hydroxide, Sodium tetrothiocarbonate      |
| Label                | 8   |

### 14.4 Other information

No data available.

### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

### 14.6 Special precautions for user

To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

### 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

## SECTION 15: Regulatory information

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

#### EU regulations

##### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

##### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

##### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3

##### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This substance is not subject to Part 1 or 2 of Annex I

##### **Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

### 15.2 Chemical safety assessment

A chemical safety assessment has been carried out for this substance.

## SECTION 16: Other information

Sources of key data used to compile the data sheet:





## Octopol STC-25

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H318

Causes serious eye damage.

### Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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