

## Octopol NB-47

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

#### 1.1 Product identifier

Trade name

**Octopol NB-47**

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

Relevant identified uses of the substance or mixture

Industrial raw material

Uses advised against

No data available.

#### 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 orders@tiarco.de

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)**

Acute Tox. 3; H311

Acute Tox. 4; H302

Aquatic Acute 1; H400

Eye Dam. 1; H318

Skin Corr. 1C; H314

Skin Sens. 1; H317

**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, 4 and 5 of Annex I to CLP.

#### 2.2 Label elements

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

Hazard pictograms



GHS05



GHS06



GHS09

Signal word

Danger

Hazardous component(s) to be indicated on label:

sodium-dibutyldithiocarbamate



**Octopol NB-47**

**Hazard statement(s)**

H302 Harmful if swallowed.  
 H311 Toxic in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H400 Very toxic to aquatic life.

**Precautionary statement(s)**

P280 Wear protective gloves/protective clothing/eye protection/face 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.  
 P361+P364 Take off immediately all contaminated clothing and wash it before reuse.  
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

**Labelling information**

The substance is solely manufactured and marketed as ca. 47% aqueous solution. The classification applies to the substance as manufactured and shall not be applied to the pure substance.

**2.3 Other hazards**

No data available.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Chemical characterization**

aqueous solution

**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	<b>sodium-dibutylidithiocarbamate</b>		
	136-30-1	Acute Tox. 3; H311	>= 25.00 - < 50.00 %-b.w.
	205-238-0	Skin Corr. 1C; H314	
	-	Acute Tox. 4; H302	
	01-2119560622-42	Skin Sens. 1; H317	
		Aquatic Acute 1; H400	

Full Text for all H-phrases and EUH-phrases: pls. see section 16

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

**After inhalation**

In the event of symptoms take medical treatment. Ensure supply of fresh air.

**After skin contact**

In case of contact with skin wash off immediately with soap and water. Seek medical attention.

**After eye contact**

In case of contact with eyes rinse thoroughly with water. Seek medical assistance.

**After ingestion**

Call a doctor immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**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**

No data available.



## Octopol NB-47

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Extinguishing powder; Water spray jet; Foam; Carbon dioxide

##### Unsuitable extinguishing media

High power water jet

#### 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); Nitrous oxides (NO<sub>x</sub>); Sulphur oxides (S<sub>x</sub>O<sub>y</sub>); Hydrogen cyanide (HCN)

#### 5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Wear protective clothing.

### SECTION 6: Accidental release measures

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

##### For non-emergency personnel

Ensure adequate ventilation. Refer to protective measures listed in sections 7 and 8.

##### 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.

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

Pick up with absorbent material (e.g., sand, kieselguhr, acid binder, universal binder, sawdust). When picked up, treat material as prescribed under heading "Disposal considerations".

#### 6.4 Reference to other sections

Information regarding waste disposal, see chapter 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Avoid eye, skin and clothing contact. Do not breathe the steams or mist of the product.

##### General protective and hygiene measures

Wash hands before breaks and after work. Avoid contact with eyes and skin. Keep separated from food-stuffs and feed-stocks. Do not eat or drink during work - no smoking.

##### Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention.

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

##### Technical measures and storage conditions

Store at cool and aired place.

##### Recommended storage temperature

Value 20 - 25 °C

##### Advice on storage assembly

Do not store together with: Acids; oxidizing agents; Bases

#### 7.3 Specific end use(s)

No data available.



## Octopol NB-47

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

DNEL, DMEL and PNEC values

## DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	sodium-dibutyldithiocarbamate			136-30-1 205-238-0	
	dermal	Long term (chronic)	systemic	5	mg/kg/day
	inhalative	Long term (chronic)	systemic	2	mg/m <sup>3</sup>
	inhalative	Short term (acute)	systemic	2	mg/m <sup>3</sup>

## DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	sodium-dibutyldithiocarbamate			136-30-1 205-238-0	
	oral	Long term (chronic)	systemic	0.3	mg/kg/day
	dermal	Long term (chronic)	systemic	3	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.5	mg/m <sup>3</sup>
	inhalative	Short term (acute)	systemic	0.5	mg/m <sup>3</sup>

## PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	sodium-dibutyldithiocarbamate		136-30-1 205-238-0	
	water	fresh water	9.1	µg/L
	water	marine water	0.91	µg/L
	water	Aqua intermittent	9.1	µg/L
	water	fresh water sediment	2.09	mg/kg dry weight
	water	marine water sediment	0.209	mg/kg dry weight
	soil	-	0.412	mg/kg dry weight
	sewage treatment plant	-	36.5	µg/L

## 8.2 Exposure controls

**Appropriate engineering controls**

No data available.

**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 dust, aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. In case of brief exposure or low level concentrations use a respiratory filter device. In case of intensive or longer exposure use self-contained breathing apparatus.

**Eye / face protection**

Safety glasses (EN 166); Face shield

**Hand protection**

Chemical resistant gloves (EN 374); Besides the suitable material, the choice of protective gloves depends additionally on quality criteria which may vary from one manufacturer to the other.

Appropriate Material chloroprene

**Other**

Normal chemical work clothing.

**Environmental exposure controls**

No data available.



## Octopol NB-47

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>	
liquid	
Light green / yellow-amber	
<b>Odour</b>	
characteristic	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
Value	10.5 - 13.5
<b>Boiling point / boiling range</b>	
Value	> 93 °C
<b>Melting point / melting range</b>	
no data available	
<b>Decomposition point / decomposition range</b>	
No data available	
<b>Flash point</b>	
Value	> 93 °C
Method	ASTM D 93
<b>Auto-ignition temperature</b>	
No data available	
<b>Oxidising properties</b>	
No data available	
<b>Explosive properties</b>	
No data available	
<b>Flammability (solid, gas)</b>	
No data available	
<b>Lower flammability or explosive limits</b>	
Value	1 % vol
<b>Upper flammability or explosive limits</b>	
Value	50 % vol
<b>Vapour pressure</b>	
No data available	
<b>Vapour density</b>	
No data available	
<b>Evaporation rate</b>	
No data available	
<b>Relative density</b>	
No data available	
<b>Density</b>	
Value	1080 kg/m <sup>3</sup>
<b>Solubility in water</b>	
Comments	soluble



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<b>Solubility(ies)</b>
No data available
<b>Partition coefficient: n-octanol/water</b>
No data available
<b>Viscosity</b>
No data available

**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 if maintained in the original packaging and under ordinary storage conditions.

**10.3 Possibility of hazardous reactions**

Formation of hydrogen sulphide upon reaction with acids.

**10.4 Conditions to avoid**

Keep from freezing. Protect from exposure to air/oxygen.

**10.5 Incompatible materials**

Acids; Oxidizing agents

**10.6 Hazardous decomposition products**

Nitrous oxides (NOx); Sulphurous oxides (SOx); Carbon disulphide; hydrogen sulphide (H2S); Carbon monoxide and carbon dioxide

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

<b>Acute oral toxicity (result of the ATE calculation for the mixture)</b>	
No	Product Name
1	Octopol NB-47
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

<b>Acute oral toxicity</b>			
No	Substance name	CAS no.	EC no.
1	sodium-dibutyldithiocarbamate	136-30-1	205-238-0
LD50	> 300	- 2000	mg/kg bodyweight
Species	rat (female)		
Method	OECD 423		
Source	ECHA		

<b>Acute dermal toxicity (result of the ATE calculation for the mixture)</b>	
No	Product Name
1	Octopol NB-47
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

<b>Acute dermal toxicity</b>			
No	Substance name	CAS no.	EC no.
1	sodium-dibutyldithiocarbamate	136-30-1	205-238-0
LD50	<	1000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		



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<b>Acute inhalational toxicity</b>
No data available
<b>Skin corrosion/irritation</b>
No data available
<b>Serious eye damage/irritation</b>
No data available
<b>Respiratory or skin sensitisation</b>
No data available
<b>Germ cell mutagenicity</b>
No data available
<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

## SECTION 12: Ecological information

## 12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	sodium-dibutyldithiocarbamate	136-30-1	205-238-0
LC50		211	mg/l
Duration of exposure		96	h
Species	Poecilia reticulata		
Method	OECD 203		
Source	ECHA		

  

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	sodium-dibutyldithiocarbamate	136-30-1	205-238-0
NOEC		3.2	mg/l
Duration of exposure		9	day(s)
Species	Danio rerio		
Method	OECD 210		
Source	ECHA		

  

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	sodium-dibutyldithiocarbamate	136-30-1	205-238-0
EC50		0.91	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

  

Toxicity to Daphnia (chronic)			
No data available			

  

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	sodium-dibutyldithiocarbamate	136-30-1	205-238-0
EC50		1.4	mg/l
Duration of exposure		96	h
Species	Chlorella pyrenoidosa		
Method	OECD 201		
Source	ECHA		

**Octopol NB-47****Toxicity to algae (chronic)**

No data available

**Bacteria 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.

**12.7 Other information****Other information**

Product is not allowed to discharge into aquatic environment, drains or sewage treatment plants.  
Ecological data are not available.

**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.

**Packaging**

Residuals 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**

Class	8
Classification code	CT1
Packing group	II
Hazard identification no.	86
UN number	UN2922
Proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S.
Technical name	sodium-dibutyldithiocarbamate
Tunnel restriction code	E
Label	8+6.1
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	8
Subsidiary Risk	6.1
Packing group	II
UN number	UN2922
Proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S.
Technical name	sodium-dibutyldithiocarbamate
EmS	F-A, S-B
Label	8+6.1
Marine pollutant mark	Symbol "fish and tree"





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**14.3 Transport ICAO-TI / IATA**

Class	8
Subrisk	6.1
Packing group	II
UN number	UN2922
Proper shipping name	Corrosive liquid, toxic, n.o.s.
Technical name	sodium-dibutyldithiocarbamate
Label	8+6.1

**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**

No data available.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

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)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

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

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

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

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3
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**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	E1
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**15.2 Chemical safety assessment**

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

**SECTION 16: Other information**

**Further information**

Authors responsible for the compilation of the material safety data sheet: UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de. The information is based on our current knowledge however it does not represent a guarantee of product properties nor does it create any legal obligation.

**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.  
 EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU  
 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 chapter.

**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.

**Alterations/supplements:**

Alterations to the previous edition are marked in the left-hand margin.

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