

EU safety data sheet

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4.0.0, issued: 01.06.2021

### 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.

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

Tiarco Chemical Europe GmbH

Am Gut Baarking 12 46395 **Bocholt** 

Telephone no. +49 2871 23476-0 +49 2871 23476-44 Fax no. 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**

### 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

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

### Hazard pictograms



GHS05



GHS06



Signal word Danger

Hazardous component(s) to be indicated on label:

sodium-dibutyldithiocarbamate

Hazard statement(s)

Harmful if swallowed. H302 H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.



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H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

Precautionary statement(s)

P260 Do not breathe gas/vapours/spray.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.

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.

P391 Collect spillage.

#### 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

Octopol NB-47

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

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 /	Classification (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	sodium-dibutyldith	iocarbamate		
	136-30-1	Acute Tox. 3; H311	47.00	wt%
	205-238-0	Skin Corr. 1C; H314		
	-	Eye Dam. 1; H318		
	01-2119560622-42	Acute Tox. 4; H302		
		Skin Sens. 1; H317		
		Aquatic Acute 1; H400		

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

Acu	Acute toxicity estimate (ATE) values				
No	oral	dermal	inhalative		
1	672 mg/kg bodyweight	300 mg/kg bodyweight			

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

#### **General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. Poisonous symptoms can first be observed after several hours, therefore medical observation for at least 48 hours is necessary.

#### After inhalation

Remove to fresh air, keep patient warm and at rest. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

#### After skin contact

In case of contact with skin wash off immediately with soap and water. Call a doctor immediately.

#### After eve 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). 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

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anything by mouth to an unconscious person.

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

### **Symptoms**

burns; Allergic symptoms; Respiratory tract irritation; Harmful if swallowed.

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

General information for dithiocarbamates

- Biomonitoring for possible chronic exposure: Determination of TTCA in urine at the end of the Working days / week.
- Blood tests for delayed effects: liver values, kidney function, thyroid function

### **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 monoxide and carbon dioxide; Nitrous oxides (NOx); Sulphur oxides (SxOy); 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 full protective suit. 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

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 collected, handle material as described under the section heading "Disposal considerations".

### 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

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Avoid eye, skin and clothing contact. Do not breathe 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. Do not inhale gases/vapours/aerosols. Provide eye wash fountain in work area. Have emergency shower available.

### 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

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### Requirements for storage rooms and vessels

Keep only in the original container. Containers which are opened must be carefully closed and kept upright to prevent leakage.

#### Incompatible products

Do not store together with: Acids; oxidizing agents

#### 7.3 Specific end use(s)

No data available.

### **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		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/m³

#### **DNEL** value (consumer)

	Ditter value (consumer)					
No	Substance name			CAS / EC no		
	Route of exposure	Exposure time	Effect	Value		
1	sodium-dibutyldithiocarb	amate		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/m³	
	inhalative	Short term (acut)	systemic	0.5	mg/m³	

### **PNEC** values

No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
1	sodium-dibutyldithiocarbamate		136-30-1 205-238-0	
	water	fresh water	9.1	μg/L
	water	Aqua intermittent	9.1	μg/L
	water	marine water	0.91	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

Provide adequate ventilation. This should be achieved by the use of local exhaust ventilation and good general extraction.

### 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, vapour 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**

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



Source

Normal chemical work clothing.

**Environmental exposure controls** 

Avoid release into sewage and environment.

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### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

9.	.1 Information on basic physical and chemical properties				
	State of aggregation				
	liquid				
	Form/Colour				
	liquid				
	yellowish to brown				
_	Odour				
	slight, characteristic				
	pH value	10	40		
	Value Source	10 - supplier	12		
		Suppliel			
	Boiling point / boiling range				
	Value Source	>	100	°C	
	Source	supplier			
	Melting point/freezing point				
	no data available				
	Decomposition temperature				
	Value	appr.	150	°C	
	Source	supplier			
	Flash point				
ı	Not applicable				
	Source	supplier			
-	Ignition townsystems				
	Ignition temperature  No data available				
	Explosive properties				
ı	Product does not present an explosion hazard.				
	Flammability				
	No data available				
	Lower explosion limit				
	No data available				
	Upper explosion limit				
	No data available				
	Vapour pressure				
	Value		220	hPa	
	Reference temperature		20	°C	
	Source	supplier			
	Relative vapour density				
	No data available				
	Relative density  No data available				
	Density	1 4 07	4.00	m/ama3	
	Value Reference temperature	1.07 -	1.09 20	g/cm³ °C	
	Source	supplier	20		
		1 - 3 - 5 - 1 - 1			
	Solubility in water		175	ar/1	
	Value Reference temperature		475 20	g/L °C	
1	Source	cupplior	20	U	

supplier



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Solubility	
No data available	

Part	Partition coefficient n-octanol/water (log value)					
No	Substance name	CA	S no.		EC no.	
1	sodium-dibutyldithiocarbamate	136	6-30-1		205-238-0	
log F	Pow	<=		-0.2		
Refe	erence temperature			20	°C	
with	reference to	pH: > 7 - <= 9				
Method		OECD 107				
Sou	rce	ECHA				

Viscosity	
No data available	

Particle characteristics	
No data available	

### 9.2 Other information

Other information	
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

Reacts with acids to form toxic and highly flammable carbon disulphide.

### 10.4 Conditions to avoid

Keep from freezing. Protect from exposure to air/oxygen. Temperatures > 30 °C

### 10.5 Incompatible materials

Acids; Oxidizing agents

### 10.6 Hazardous decomposition products

Carbon disulphide; 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

Acu	Acute oral toxicity (result of the ATE calculation for the mixture)				
No	Product Name				
1	Octopol NB-47				
ATE (Mixture)		1429.79 mg/kg			
Method		Calculation method according Regulation (EC) No 1272/2008,			
		(CLP), annex I, part 3, section 3.1.3.6.			

Acu	Acute oral toxicity					
No	Substance name	CAS no.	EC no.			
1	sodium-dibutyldithiocarbamate	136-30-1	205-238-0			
LD5	0		672 mg/kg bodyweight			
Spe	cies	rat				
Source		ECHA				
Eval	uation/classification	Based on available data, the	classification criteria are met.			

Acu	Acute dermal toxicity (result of the ATE calculation for the mixture)			
No	Product Name			
1	Octopol NB-47			
ATE	(Mixture)	638.30 mg/kg		
Meth	ethod Calculation method according Regulation (EC) No 1272/2008,			
		(CLP), annex I, part 3, section 3.1.3.6.		

Acute dermal toxicity				
No	Substance name	CAS no.	EC no.	
1	sodium-dibutyldithiocarbamate	136-30-1	205-238-0	



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LD50	200	- 1000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
Evaluation/classification	Based on availabl	e data, the classification of	criteria are met.

### Acute inhalational toxicity

No data available

### Skin corrosion/irritation

No data available

### Serious eye damage/irritation

No data available

Res	Respiratory or skin sensitisation				
No	Substance name	CAS no.	EC no.		
1	sodium-dibutyldithiocarbamate	136-30-1	205-238-0		
Rou	te of exposure	Skin			
Spe	cies	mouse			
Meth	nod	OECD 429			
Soul	rce	ECHA			
Evaluation		sensitizing			
Eval	uation/classification	Based on available data, the classification	on criteria are met.		

Ger	Germ cell mutagenicity					
No	Substance name	CAS no.	EC no.			
1 sodium-dibutyldithiocarbamate		136-30-1	205-238-0			
Туре	e of examination	in vitro gene mutation study in bacte	eria			
Spe	cies	S. typhimurium TA 1535, TA 1537, TA 98 and TA 100				
Method		OECD 471				
Source		ECHA				
Eval	uation/classification	Based on available data, the classification criteria are not met.				

Rep	Reproduction toxicity					
No	Substance name	CAS no.	EC no.			
1	sodium-dibutyldithiocarbamate	136-30-1	205-238-0			
Sou	rce	ECHA				
Evaluation/classification		Based on available data, the classificatio	n criteria are not met.			

### Carcinogenicity

No data available

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

#### **Aspiration hazard**

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

Tox	Toxicity to fish (acute)					
No	Substance name	CAS no.		EC no.		
1	sodium-dibutyldithiocarbamate	136-30-1		205-238-0		
LC5	0		211	mg/l		
Dura	ation of exposure		96	h		
Species		Poecilia reticulata			•	
Sou	rce	ECHA				

### Toxicity to fish (chronic)

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No	Substance name		CAS no.		EC no.	
1	sodium-dibutyldithiocarbamate		136-30-1		205-238-0	
NOE	EC			1	mg/l	
Dura	ation of exposure			11	day(s)	
Spe	cies	Danio rerio				
Metl	nod	OECD 210				
Sou	rce	ECHA				

Toxi	Toxicity to Daphnia (acute)					
No	Substance name	CAS no.		EC no.		
1	sodium-dibutyldithiocarbamate	136-30-1		205-238-0		
EC5	0		0.91	mg/l		
Dura	ation of exposure		48	h		
Spe	cies	Daphnia magna				
Metl	nod	OECD 202				
Sou	rce	ECHA / Read across				

### Toxicity to Daphnia (chronic)

No data available

Tox	Toxicity to algae (acute)					
No	Substance name	CAS no.		EC no.		
1	sodium-dibutyldithiocarbamate	136-30-1		205-238-0		
EC5	50		1.4	mg/l		
Dura	ation of exposure		96	h		
Spe	cies	Chlorella pyrenoidosa				
Metl	hod	OECD 201				
Sou	rce	ECHA / Read across				

### Toxicity to algae (chronic)

No data available

# Bacteria toxicity No data available

### 12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

L.J I	Bloaccumulative potential						
Part	Partition coefficient n-octanol/water (log value)						
No	No Substance name CAS no. EC no.						
1	sodium-dibutyldithiocarbamate	1;	36-30-1	205-238-0			
log F	Pow	<=	-0.2				
Refe	erence temperature		20	°C			
with	reference to	pH: > 7 - <= 9					
Metl	hod	OECD 107					
Sou	rce	ECHA					

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
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

Other adverse effects	
Because of damage to water organism do not fill in presurge.	
Adverse effect due to pH-shifting.	

### 12.8 Other information

Other information	
Product is not allowed to discharge into aquatic environment, drains or sewage treatment plants.	

### **SECTION 13: Disposal considerations**

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### 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

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

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 Symbol "fish and tree"

substance mark

#### 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"

#### 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

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 <u>EU regulations</u>

### 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



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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, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex

No 3

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:

### Chemical safety assessment

A chemical safety assessment has not been carried out.

### **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.

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.

Alterations/supplements:

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

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Prod-ID 615238