

## Octopol SDM-40-TE

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

#### 1.1 Product identifier

Trade name

**Octopol SDM-40-TE**

#### 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 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)**

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

**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**



GHS09

**Signal word**

Warning

**Hazard statement(s)**

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statement(s)**

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container to a facility in accordance with local and national regulations.

#### 2.3 Other hazards

PBT assessment

**Octopol SDM-40-TE**

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 / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>sodium dimethyldithiocarbamate</b>			
	128-04-1 204-876-7 - 01-2119543694-32	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	41.00	%-b.w.

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	-	M = 100	M = 10

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

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

**After inhalation**

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. In case of accident or if you feel unwell, seek medical advice immediately.

**After skin contact**

Wash off immediately with soap and water. Get medical attention if pain still persists.

**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). Begin with medical treatment.

**After ingestion**

Seek medical advice immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

**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**

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**

Foam; Carbon dioxide; Dry chemical extinguisher; Water spray jet

**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)



**Octopol SDM-40-TE**

**5.3 Advice for firefighters**

In event of a fire immediately cordon off the area and evacuate all persons from the danger zone. 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. Run-off water from fire fighting must not be discharged into drains or enter surface water. Very toxic to aquatic organisms.

**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. Keep away sources of ignition. Avoid contact with skin, eyes and clothing. Evacuate all unprotected personnel from the danger zone.

**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. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Very toxic to aquatic organisms.

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

Pump off large amounts. Pick up with absorbent material (e.g. kieselguhr). When collected, handle material as described under the section heading "Disposal considerations".

**6.4 Reference to other sections**

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

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Advice on safe handling**

No special measures necessary if stored and handled as prescribed. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

**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. Provide eye wash fountain in work area. Have emergency shower available. Avoid contact with eyes and skin.

**Advice on protection against fire and explosion**

Pay attention to general rules of internal fire prevention. Isolate from sources of heat, sparks and open flame.

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

**Technical measures and storage conditions**

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

**Recommended storage temperature**

Value < 30 °C

**Requirements for storage rooms and vessels**

Appropriate Material HDPE; stainless steel

Inappropriate material Copper, copper alloys; zinc, zinc alloys

**Incompatible products**

Do not store with strong oxidizing agents. Do not store together with acids.

**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	Exposure time	Effect	Value
1	sodium dimethyldithiocarbamate			128-04-1



## Octopol SDM-40-TE

				<b>204-876-7</b>	
dermal	Long term (chronic)	systemic	2.71	mg/kg/day	
inhalative	Long term (chronic)	systemic	0.93	mg/m <sup>3</sup>	

## DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	sodium dimethyldithiocarbamate			<b>128-04-1</b> <b>204-876-7</b>	
	oral	Long term (chronic)	systemic	0.1	mg/kg/day
	dermal	Long term (chronic)	systemic	1.35	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.23	mg/m <sup>3</sup>

## PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	sodium dimethyldithiocarbamate		<b>128-04-1</b> <b>204-876-7</b>	
	water	fresh water	0.015	µg/L
	water	Aqua intermittent	0.012	µg/L
	water	marine water	0.001	µg/L
	water	fresh water sediment	0	mg/kg dry weight
	water	marine water sediment	0	mg/kg dry weight
	soil	-	0.165	mg/kg dry weight
	sewage treatment plant	-	0.036	mg/L
	secondary poisoning	-	1720	mg/kg food

## 8.2 Exposure controls

## Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

## 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

In case of intensive contact, wear protective gloves (EN 374). 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. 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.

Appropriate Material nitrile rubber

Appropriate Material neoprene

## Other

Normal chemical work clothing.

## Environmental exposure controls

Ensure adequate ventilation. Avoid release of the product and contaminated by-products (detergents and fire-fighting agents) into the environment. To be disposed of as hazardous waste (pls. refer to section 13).

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>
aqueous solution
clear; yellow
<b>Odour</b>



## Octopol SDM-40-TE

amine-like	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
Value	9.7
Reference temperature	20 °C
Source	supplier
<b>Boiling point / boiling range</b>	
Value	106 °C
Source	supplier
<b>Melting point / melting range</b>	
not determined	
Source	supplier
<b>Decomposition point / decomposition range</b>	
Source	supplier
Comments	Starts at about 150 °C.
<b>Flash point</b>	
Not applicable	
Source	supplier
<b>Ignition temperature</b>	
Value	420 °C
Source	supplier
<b>Auto-ignition temperature</b>	
Source	supplier
Comments	Product is not selfigniting.
<b>Oxidising properties</b>	
No data available	
<b>Explosive properties</b>	
The product does not have explosive properties.	
<b>Flammability (solid, gas)</b>	
No data available	
<b>Lower flammability or explosive limits</b>	
not determined	
Source	supplier
<b>Upper flammability or explosive limits</b>	
not determined	
Source	supplier
<b>Vapour pressure</b>	
not determined	
Source	supplier
<b>Vapour density</b>	
not determined	
Source	supplier
<b>Evaporation rate</b>	
not determined	
Source	supplier
<b>Relative density</b>	
not determined	
Source	supplier
<b>Density</b>	
Value	1.18 g/cm <sup>3</sup>
Reference temperature	20 °C
Source	supplier
<b>Solubility in water</b>	



## Octopol SDM-40-TE

Source	supplier
Comments	Completely miscible

Solubility(ies)			
Value	>	250	g/l
Reference temperature		10	°C
Medium	Methanol		
Value	<	20	g/l
Reference temperature		10	°C
Medium	Toluene		

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
log Pow			-3.2
Source	ECHA		

Viscosity			
Value		4.2	mPa*s
Reference temperature		20	°C
Type	dynamic		
Source	supplier		
Value		0.0036	mm <sup>2</sup> /s
Type	kinematic		

## 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. Heat, naked flames and other ignition sources. Protect from exposure to air/oxygen. Storage above 30 °C; Do not allow the solution to evaporate to dryness.

## 10.5 Incompatible materials

Acids; Oxidizing agents; copper, zinc and their alloys

## 10.6 Hazardous decomposition products

Nitrous oxides (NO<sub>x</sub>); Sulphurous oxides (SO<sub>x</sub>); carbon oxides

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
LD50	>	2500	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
LD50	>	5000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		



**Octopol SDM-40-TE**

Acute inhalational toxicity	
No data available	

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
Type of examination		In vitro Mammalian Chromosomal Aberration Test	
Species		Human Lymphocyte	
Method		OECD 473	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		in vitro gene mutation study in mammalian cells	
Species		Chinese hamster Ovary (CHO)	
Method		OECD 476	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		oral	
Type of examination		In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus	
Species		mouse	
Method		OECD 474	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		oral	
Type of examination		DNA-Damage	
Species		rat	
Method		OECD 486	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
Route of exposure		oral	
Type of examination		Prenatal Developmental Toxicity Study	
Species		rat	
Method		OECD 414	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity			
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## Octopol SDM-40-TE

No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
Species		rat	
Method		OECD 453	
Source		ECHA / Read across	
Evaluation/classification		Based on available data, the classification criteria are not met.	

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
Route of exposure		oral	
Species		rat	
Method		OECD 408	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

**Aspiration hazard**

No data available

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
LC50		0.76	mg/l
Duration of exposure		96	h
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	

**Toxicity to fish (chronic)**

No data available

<b>Toxicity to Daphnia (acute)</b>			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
EC50		0.67	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		OECD 202	
Source		ECHA	

<b>Toxicity to Daphnia (chronic)</b>			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
NOEC		9.5	µg/l
Duration of exposure		21	day(s)
Species		Daphnia magna	
Method		OECD 211	
Source		ECHA	

<b>Toxicity to algae (acute)</b>			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
EC50		1.25	µg/l
Duration of exposure		96	h
Species		Navicula pelliculosa	
Method		OECD 201	
Source		ECHA	

<b>Toxicity to algae (chronic)</b>			
No data available			

<b>Bacteria toxicity</b>			
No data available			





**Octopol SDM-40-TE**

**12.2 Persistence and degradability**

Biodegradability			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
Type		aerobic biodegradation	
Value		67.3	- 67.7 %
Duration		28 d	
Method		Closed Bottle Test (OECD 301D)	
Source		ECHA	
Evaluation		readily biodegradable	

**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
log Pow		-3.2	
Source		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 Other adverse effects**

Other adverse effects
Danger to drinking water even when small quantities leak into the ground. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**12.7 Other information**

Other information
Do not discharge into the drains or waters and do not store on public depositories.

**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**

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	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	sodium dimethyldithiocarbamate
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	9
Packing group	III
UN number	UN3082



**Octopol SDM-40-TE**

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	sodium dimethyldithiocarbamate
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

**14.3 Transport ICAO-TI / IATA**

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	sodium dimethyldithiocarbamate
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**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 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 not been carried out for this mixture.

**SECTION 16: Other information**

**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)**

H400 Very toxic to aquatic life.

**Department issuing safety data sheet**



## **Octopol SDM-40-TE**

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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.

Alterations/supplements:

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

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