

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

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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

Octopol SDM-40-TE

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

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 the 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

Octopol SDM-40-TE

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Nitrous oxides (NO_x); Sulphur oxides (S_xO_y); Hydrogen cyanide (HCN)

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 from ignition sources. 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 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

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
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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)

Octopol SDM-40-TE

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	sodium dimethyldithiocarbamate			128-04-1 204-876-7
	dermal	Long term (chronic)	systemic	2.71 mg/kg/day
	inhalative	Long term (chronic)	systemic	0.93 mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	sodium dimethyldithiocarbamate			128-04-1 204-876-7
	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 ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	sodium dimethyldithiocarbamate		128-04-1 204-876-7
	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

State of aggregation

Octopool SDM-40-TE

liquid		
Form		
aqueous solution		
Colour		
clear; yellow		
Odour		
amine-like		
pH value		
Value	9.7	
Reference temperature	20	°C
Source	supplier	
Boiling point / boiling range		
Value	106	°C
Source	supplier	
Melting point/freezing point		
not determined		
Source	supplier	
Decomposition temperature		
Source	supplier	
Comments	Starts at about 150 °C.	
Flash point		
Not applicable		
Source	supplier	
Ignition temperature		
Value	420	°C
Source	supplier	
Auto-ignition temperature		
Source	supplier	
Comments	Product is not selfigniting.	
Explosive properties		
The product does not have explosive properties.		
Flammability		
No data available		
Lower explosion limit		
not determined		
Source	supplier	
Upper explosion limit		
not determined		
Source	supplier	
Vapour pressure		
not determined		
Source	supplier	
Relative vapour density		
not determined		
Source	supplier	
Evaporation rate		
not determined		
Source	supplier	
Relative density		
not determined		
Source	supplier	
Density		
Value	1.18	g/cm³

Octopol SDM-40-TE

Reference temperature	20 °C
Source	supplier

Solubility in water	
Source	supplier
Comments	Completely miscible

Solubility	
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 (log value)			
No	Substance name	CAS no.	EC no.
1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
log Pow			-3.2
Source	ECHA		

Kinematic viscosity	
Value	4.2 mPa*s
Reference temperature	20 °C
Type	dynamic
Source	supplier
Value	0.0036 mm ² /s
Type	kinematic

Particle characteristics

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 (NOx); Sulphurous oxides (SOx); carbon oxides

SECTION 11: Toxicological information

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

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.

Octopol SDM-40-TE

1	sodium dimethyldithiocarbamate	128-04-1	204-876-7
LD50	>	5000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

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		

Octopol SDM-40-TE

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

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

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
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

Toxicity to Daphnia (acute)			
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		

Toxicity to Daphnia (chronic)

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		

Octopool SDM-40-TE

Toxicity to algae (acute)			
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		
Toxicity to algae (chronic)			
No data available			
Bacteria toxicity			
No data available			

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 (log value)			
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 Endocrine disrupting properties

No data available.

12.7 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.

12.8 Other information

Other information
Do not discharge into drains or waters and do not dispose of in public landfills.

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

Octopol SDM-40-TE

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
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 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)

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, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex 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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Octopol SDM-40-TE

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.

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)

H400 Very toxic to aquatic life.

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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