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

1.1 Product identifier

Trade name

Octocure ZDB-100

ZDB-powder

Substance name zinc bis(dibutyldithiocarbamate)

REACH registration no. 01-2119535161-51

Identification numbers

CAS no. 136-23-2 EC no. 205-232-8 Index no. 006-081-00-9

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 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335

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

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

Product identifier

136-23-2 (zinc bis(dibutyldithiocarbamate))

Hazard pictograms



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Signal word

Warning

Hazard statement(s)

Causes skin irritation. H315

H317 May cause an allergic skin reaction. H319 Causes serious eve irritation. H335 May cause respiratory irritation.

Very toxic to aquatic life with long lasting effects. H410

Precautionary statement(s)

Avoid breathing dust/fume/gas/mist/vapours/spray. P261

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eve protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing.

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/container to hazardous or special waste collection point.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 **Substances**

Chemical characterization

Substance name zinc bis(dibutyldithiocarbamate)

Formula C18 H36 N2 S4 Zn

Molecular weight 474

Identification numbers

CAS no. 136-23-2 EC no. 205-232-8 Index no. 006-081-00-9

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

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. After exposition don't drink alcohol.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

Wash off with soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Rinse the mouth thoroughly with water. If swallowed give water to drink. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

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Symptoms

Dust may irritate the respiratory tract and cause symptoms of Bronchitis. May lead to alcohol incompatibilty.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry chemical extinguisher; Foam; Water spray jet; Water mist

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke. In the event of fire, the following can be released: Sulphur oxides (SxOy); Nitrogen oxides (NOx); Hydrogen cyanide (HCN)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

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. Avoid dust formation. 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.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

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 the formation and deposition of dust.

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. Avoid contact with eyes and skin.

Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Always keep in containers of same material as the original.

Incompatible products

None known

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.	
1	Dust			
	List of approved workplace exposure limits (WELs) / EH40			
	Dust respirable			
	WEL long-term (8-hr TWA reference period)	4 mg/m³		
	Comments	see Definition 44 "Dust"		
	List of approved workplace exposure limits (WELs) / EH40			
	Dust inhalable			
	WEL long-term (8-hr TWA reference period)	10 mg/m³		
	Comments	see Definition 44 "Dust"		

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 formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified. In case of insufficient ventilation or long-term effect use breathing apparatus.

Eye / face protection

Safety glasses (EN 166)

Hand protection

Protective gloves (EN 374)

Appropriate Material PVC

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation			
solid			
Form/Colour			
Powder / granulates			
white to pink			
Odour			
odourless			
pH value			
	neutral		
Boiling point / boiling range			
No data available			
Melting point/freezing point			
Value	min.	100	°C
Decomposition temperature			
No data available			
Flash point			
No data available			
Ignition temperature			
Value		400	°C
Flammability			
No data available			



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Lower explosion limit					
Value		20	mg/m³		
Upper explosion limit	Upper explosion limit				
No data available	No data available				
Vapour pressure					
No data available					
Relative vapour density					
No data available					
Relative density					
No data available					
Density					
Value Reference temperature		1270 20	kg/m³ °C		
		20	C		
Bulk density	240	250	1/3		
Value	310	- 350	kg/m³		
Solubility in water					
Comments	Comments essentially insoluble				
Solubility					
No data available					
Soluble in					
Acetone; Carbon disulphide					
Partition coefficient n-octanol/water (log value)					
No data available					
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

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

None known

10.5 Incompatible materials

Oxidizing agents; strong acids

10.6 Hazardous decomposition products

Under nitrosating conditions this product can form the following carcinogenic n-nitrosamine(s) listed in the TRGS 552: N-nitroso-di-n-butylamine

SECTION 11: Toxicological information

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

Acute oral toxicity				
LD50	>	5000	mg/kg	
Species	rat			

Acute dermal toxicity



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LD50	>	2000	mg/kg		
Species	rabbit				
Acute inhalational toxicity					
No data available					
Skin corrosion/irritation					
No data available					
Serious eye damage/irritation					
No data available					
Respiratory or skin sensitisation					
No data available					
Germ cell mutagenicity					
Method	Ames-Test				
Evaluation	negative				
Reproduction toxicity					
No data available					
Carcinogenicity					
Duration of exposure		2	year(s)		
Species	rat				
Evaluation	No indications of trials.	of carcinogenic effects are	available from long-term		
STOT - single exposure					
No data available					
STOT - repeated exposure					
No data available					
Aspiration hazard					

No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Contact of the product with skin or eyes may cause irritation. Inhalation of dusts may irritate the respiratory tract.

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

This product is approved for items that may come into contact with foods.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)				
LC50		520	mg/l	
Duration of exposure		96	h	
Species	Oncorhynchus mykiss			
LC50		880	mg/l	
Duration of exposure		96	h	
Species	Lepomis macrochirus			

Toxicity to fish (chronic) No data available

Toxicity to Daphnia (acute)				
EC50		0.74	mg/l	
Duration of exposure		48	h	
Species	Daphnia magna			

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

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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 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

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.

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 9
Classification code M7
Packing group III
Hazard identification no. 90
UN number UN3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Tunnel restriction code - Label 9

Environmentally hazardous Symbol "fish and tree"

substance mark

14.2 Transport IMDG

Class 9
Packing group III
UN number UN3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

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 UN3077

Proper shipping name Environmentally hazardous substance, solid, n.o.s.

Label

Environmentally hazardous Symbol "fish and tree"

substance mark

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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 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 substance is not subject to the provisions of annex XVII (restriction entries) of the Reach regulation (EC) 1907/2006.

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

15.2 Chemical safety assessment

No data available.

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

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

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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