

MERCURE ZDC (WP) MSDS No. 21/20.03.2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name Mercure ZDC (W)

Zinc diethyldithiocarbamate Synonym

1.2 Use of the Substance/Mixture

Identified uses Rubber vulcanization accelerator

1.3 Manufacturer or supplier's details

Company/Undertaking identification address Merchem Limited

Grove Centre, 44- Development Plot,

Kalamassery,

Cochin – 683 109, Kerala, India + 91-484-4089300

Telefax + 91-484-4089310

1.4 Emergency Telephone Number

Emergency Telephone Number

+91-484-4089300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to EU directives 67/548/EEC or 1999/45/EC

Ν

Xn

Χi R22

R36/37/38

Telephone

R43 R50/53

EC Number: 238-270-9

Annex 1 Index Number: 006-082-00-4



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REGULATION (EC) No. 1272/2008

Classification of the Acute tox: Cat. 4; Skin sensitization: Cat. 1; Skin corrosion/irritation Cat. 2; Specific

substance or mixture target organ toxicity, single exposure; Respiratory tract irritation Cat.3

2.2 Label elements

Product Name: Mercure ZDC

Hazard pictograms



Signal Word Warning

Hazard Statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements - Prevention

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

P262 Avoid contact with skin ,eyes and clothing

P264 Wash hands thoroughly after handling

P273 Avoid release to the environment.

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

Precautionary Statements - Response

P301+ P312 If swallowed, seek advice of a medical practitioner

P302+P352 If on skin, wash with plenty of soap and water

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P304+P340 If inhaled, remove victim to fresh air

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

contact lenses, if present and easy to do. Continue rinsing.

P391 Collect spillage. Hazardous to the aquatic environment

Precautionary Statements - storage

P403+P233 store in a well ventilated place. Keep container closed

Precautionary Statements - Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements: None

2.3 Other hazards None



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical description: Zinc diethyl dithiocarbamate

Composition/Information on ingredients

Chemical Name	CAS No.	EC No.	Annex-1 Index No.	Weight %
Zinc diethyl dithiocarbamate	14324-55-1	238-270-9	006-082-00-4	98
Sodium lauryl sulfate	151-21-3			1 -2

3.2 Mixtures

Not applicable. Substance is not a mixture

SECTION 4: FIRST AID MEASURES

4.1 Description of first-aid measures

General Advice If symptoms persist, call a physician. Show this material safety data sheet to the

doctor in attendance. Treat symptomatically. Use of alcoholic beverages may enhance toxic effects. In case of allergic reaction after exposure, any future exposure must be avoided. Dust must be irritating to the respiratory tract

and cause symptoms of bronchitis.

Inhalation : Move to fresh air, if symptoms persist, seek medical advice

Skin Contact: Wash immediately with soap and water

Eyes Contact: Rinse immediately as long as a possible with plenty of water. Seek

medical advice if irritation persist

Ingestion :Rinse mouth ,give water to drink

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects

4.3 Indication of immediate medical attention and special treatment needed

No data available



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SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Zinc/zinc oxides

5.3 Protective Equipment and Precautions for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

6.3 Methods and materials for containment and cleaning up GROW

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal

6.4 Reference to other sections

See section 7, 8 and 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

A part from the uses mentioned in section 1.2 no other specific uses are stipulated



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SECTION 8: EXPOSURE CONTROL/PERSONNEL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment:

Eye/face Protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose ofcontaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

Hand Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Respiratory Protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form :solid powder b)Colour :White

c) Odour : Characteristic

d) pH :NA

e) Melting point/range :178 - 181 °C

f) Initial boiling point and boiling range : Decomposes before boiling g) Flash point : 220°C(Cleveland open cup)

h) Evaporation rate :NA
i) Flammability (solid, gas) :NA
j) Upper/lower flammability or explosive limits :NA



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k) Vapour pressure : Negligible at room temperature

I) Vapour density :NA m) Relative density :1.48g/cc

n) Solubility : Insoluble in water, soluble in

benzene,CS₂,Chlorinated hydrocarbon

o) Partition coefficient

(n octanol/water) : Low Pow=3.11

p) Auto-ignition temperatureq) Decomposition temperaturer) Viscosity:NA

s) Explosive properties : Explosion class: St2,

Kst:224 bar.m/s,

:NA

LEL:20g/m³; MIE:1.3mj

t) Oxidizing properties

9.2 Other information

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

See Incompatible Materials

10.2 Chemical Stability

Stable under recommended storage and handling conditions (See section 7)

10.3 Possibility of hazardous reactions

• no data available

10.4 Conditions to Avoid

no data available

10.5 Incompatible materials to avoid

Oxidizing agents

10.6 Hazardous Decomposition Products

 Heating or fire can release toxic gas Nitrogen oxides (NOx) Sulphur dioxide (SO2) Hydrogen cyanide (HCN)



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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity (LD50/oral/rat): >5000 mg/Kg
Acute dermal toxicity (LD50/dermal/rabbit): >2000 mg/Kg
Acute inhalational toxicity: No data available

Ingestion: Harmful if swallowed. May cause head ache,

nausea, vomiting, and gastrointestinal irriation

Eye irritation: Irritating to eyes

Skin irritation/Sensitization: Irritating to skin, Sensitization possible through

skin contact

Mutagenic Effects Did not show mutagenic effects in animal

experiments

Reproductive toxicity:No toxicity to reproduction

Carcinogenic effects: Did not show carcinogenic effects in animal

experiments

Target Organ Effects:

No data available

Human experience:

No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Toxicity to fish LC50 - other fish - 0,49 mg/l - 96 h

Toxicity to daphnia and

other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 0,24 mg/l - 48 h

12.2 Mobility in soil

No data available

12.3 Persistence and degradability

No data available

12.4 Bioaccumulative Potential

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

12.7 Other information

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method

Product

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

Packing

• Dispose off in accordance with local regulations

SECTION 14: TRANSPORT INFORMATION

14.1 Road transport (ADR/RID/ADN)

ADR/RID Class 9
UN-No 3077
Packing Group III

"Hazard label" Hazardous for the environment

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Zincbis(diethyldithiocarbamate)

14.2 Sea transport (IMDG)

"Hazard label" Hazardous for the environment

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Zincbis(diethyldithiocarbamate)

14.3 Air transport (ICAO-TI/IATA)

Class 9 UN-No 3077 Packing Group III

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Zincbis(diethyldithiocarbamate)

14.4 Other information

No data available

14.5 Environmental hazards

Information on environmental hazards, if relevant, pls. 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 73/78 and the IBC Code

Not relevant



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SECTION 15: REGULATORY INFORMATION

15.1 <u>Safety, health and environmental regulations/legislation specific for the substance or mixture</u>

Regulation 1907/2006 REGULATION (EC) No 1272/2008 Classification according to EU directives 67/548/EEC or 1999/45/EC

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

This data sheet contains changes from the previous version in section(s)

Issue No. 2

Issue date 20.03.2015

Revision No. 0

Reason for revision : Reviewed & revamped based on the guide lines of

Regulation (EC) No 1907/2006

List of relevant R(isk)-phrase(s)

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of relevant S(afety) phrase(s)

S24 - Avoid contact with skin.

S37 – Wear suitable gloves

S60 –This material and its container must be disposed off as hazardous waste.

S61 - Avoid release to the environment.

Classification of dangerous substance directive (67/548/EEC)

Xi - Irritants

N - Substances or preparations those are dangerous for the environment.

Xn-Harmful

Training advice

Provide adequate information, instruction and training to operators.

Further information for the material safety data sheet

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.