

1. Identification of Substance and Company	
Product Name	: SIN RUBTECH® POLYMER BOUND PREDISPERSED ZBEC – 80G
Trade Name	: ZBEC – 80G
Manufacturer	: UA Rubber Speciality Chemical Sdn. Bhd.
Supplier	: Sin Rubtech Consultancy Sdn. Bhd.
Address	: 10-12 Jalan Industri Cherok To’Kun 2, Taman Industri Cherok To’Kun, 14000 Bukit Mertajam, Seberang Prai Utara, Penang, Malaysia.
Telephone	: 604 – 5511804
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Website / E-Mail	: www.sinrubtech.com / marketing@sinrubtech.com

2. Composition / Information on ingredients	
A proprietary predispersed 80% of Zinc dibenzyl dithiocarbamate in a 20% elastomeric / processing aids binder.	
CAS No	ZBEC : 14726 – 36 – 4
	Hazard Symbol :
Binder	: Trade Secret
	R phrases : R 53

3. Hazards Identification	
Hazard Designation	:
Health Hazards	: I
Inhalation	: Not applicable at ambient temperatures.
Skin Contact	: Avoid direct contact. Can cause irritation.
Eye Contact	: Can cause irritation
Ingestion	: Unlikely to be harmful unless excessively taken.

4. First-aid Measures	
Inhalation	: After inhalation of vapours during processing remove to fresh air.
Skin Contact	: Wash with plenty of water and soap.
Eye Contact	: Wash with plenty of water and obtain medical attention if any sensation persists.
Ingestion	: Remove material from mouth. Wash with water. If large amounts swallowed or symptoms develop seek medical attention.

5. Fire-fighting Measures	
Extinguishing Media	: Water spray, foam, carbon dioxide, dry chemicals.
Special Protective Equipment	: Protective clothing and self-contained breathing equipment should be available for firemen.

6. Accidental Release Measures	
Methods for Cleaning / Collecting	: Sweep up and transfer product to a suitably labelled container and dispose at an approval site.

7. Handling and Storage	
Handling	: No special precautions necessary but normal industrial good housekeeping practices should be followed as for any rubber additive.

8. Exposure Controls / Personal Protection	
General Precautions	: Good industrial hygiene should be followed.
Ventilation	: Adequate ventilation should be maintained when handling heated product.
Occupational Exposure Limits	: See item 15.
Personal Protective Equipment	: Normal precautions should be observed as for handling all chemicals.

9. Physical and Chemical Properties	
Form/Colour/Odour	: Granules / Beige / Faint
pH	: Not Applicable.
Boiling Point	: Not Applicable.
Solidif./Melting Point	: Not Applicable.
Flash Point	: Not Applicable.
Auto-ignition Temp.	: > 200oC
Explosive/oxidizing properties	: Not to be expected.
Vapor pressure (mbar/208C)	: Not Applicable.
Density (g/cm ³)	: 1.22 Approx.
Solubility in Organic Solvents	: Aromatic.
Solubility in Water	: Insoluble.

10. Stability and Reactivity	
Stability	: Stable under normal conditions.
Conditions to Avoid	: After prolonged heating, decomposition starts at about 150oC
Materials to Avoid	: Strong oxidising agents.
Hazardous Decomposition Products	: Oxides of carbon, nitrogen and sulphur.
Hazardous Reactions	: Contact with nitrosating agents may lead to nitrosoamine formulation.

11. Toxicological Information	
Name	Zinc dibenzylthiocarbamate
Acute toxicity	
Oral LD50	rat: >5000 mg/kg.
Irritation	
Skin	Practically non-irritating.
Eye	Practically non-irritating.

12. Ecological Information	
Ecotoxicity	
fish	96h-LC50 (Danio rerio): >10 mg/l.

13. Disposal Consideration	
Waste Disposal Method	: Incinerate according to local regulations
Contaminated Container Disposal	: Observe local regulations. Treat container and waste material as hazardous.

14. Transport Information	
Not classified in RID/ADR - ADNR - IMDG - ICAO/IATA - DGR.	

15. Regulatory Information	
Labelling in accordance with Annex T of directive 57/548/EEC and its amendments and adaptations:	
<u>Symbol</u>	<u>Hazard Description</u>
:	:
Contains	: Zinc dibenzyl dithiocarbamate (ZBEC)
<u>Risk phrase(s)</u>	<u>Definition</u>
R 53	: May cause long-term adverse effects in the aquatic environment
<u>Safety phrase(s)</u>	<u>Definition</u>
S 61	: Avoid release to the environment

16. Other Information (training needs, possible restrictions, data sources, etc)	
Data Sources	: Sin Rubtech Consultancy Sdn. Bhd.
Department issuing MSDS	: Technical Department.
Contact	: Sin Yoong Leong, Technical Manager

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