

1. Identification of Substance and Company	
Product Name	: SIN RUBTECH® POLYMER BOUND PREDISPERSED ZDTP- 50G
Trade Name	: ZDTP - 50G
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 50% of Zinc dialkylphosphorodithioate in a 50% elastomeric / processing aids binder.	
CAS No ZDTP	: 68649-42-3
Hazard Symbol	: Xi, N
Amorphous Silica	: 7631-86-9
Binder	: Trade Secret
R phrases	: R 36/38; R 51/53

3. Hazards Identification	
Hazard Designation	: Irritant
Health Hazards	:
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. Keep away from water.

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/cm³) : 1.12 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 dialkylphosphorodithioate
Acute toxicity	
Oral LD50	rat: 1800 mg/kg.
Irritation	
Skin	Practically non-irritating.
Eye	Practically non-irritating.

12. Ecological Information	
NO hazard to waters, product insoluble in water	

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>
Xi	: Irritant
N	: Dangerous for the environment
Contains	: Zinc dialkylphosphorodithioate (ZDTP)
<u>Risk phrase(s)</u>	<u>Definition</u>
R 36/38	: Irritating to Eyes & Skin
R 51/53	: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
<u>Safety phrase(s)</u>	<u>Definition</u>
S 24	: Avoid contact with skin
S 26	: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
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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