

1. Identification of Substance and Company	
Product Name	: SIN RUBTECH® POLYMER BOUND PREDISPERSED TMPTMA – 50G
Trade Name	: TMPTMA – 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
Fax	: 604 – 5514804
Website / E-Mail	: www.sinrubtech.com / marketing@sinrubtech.com
2. Composition / Information on ingredients	
A proprietary predispersed 50% Trimethylolpropane Trimethacrylate in a 50% elastomeric / processing aids binder.	
CAS No TMPTMA	: 3290 – 92 – 4
Hazard Symbol	: Xn, N
Binder	: Trade Secret
R phrases	: 20/22, 36/37, 40 & 43
3. Hazards Identification	
Toxic to aquatic organisms. Polymerises violently. Harmful by inhalation and if swallowed. Irritating to eyes and respiratory system. May cause sensitisation by skin contact.	
4. First-aid Measures	
After contact with skin, wash immediately with plenty of water and soap. In case of eye contact rinse with plenty of water after swallowing of product, seek medical advice immediately.	
5. Fire-fighting Measures	
Extinguishing Media	: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.
Special Protective Equipment	: Protective clothing and self-contained breathing equipment should be available for firemen.

6. Accidental Release Measures
Take up mechanically. Fill into labelled sealable containers. Try to prevent material entering drain or watercourses.

7. Handling and Storage

Handling	:	Store in cool, dry, well-ventilated area out of direct sunlight. Exhaust ventilation is required in working area with regard to other chemical additives used in rubber processing.
Storage	:	Suitable storage materials are, PE bins/bags, SS bins. DO NOT store in A1, Cu and mild steel containers.

8. Exposure Controls / Personal Protection

For exposure controls, see Chp. 15.

Eye Protection	:	Goggles.
Hand Protection	:	Rubber Gloves.

Avoid Contact with eyes and skin. Avoid ingestion.

9. Physical and Chemical Properties

Form/Colour/Odour	:	Granules / Translucent Clear to Nicotine / Faint, Sweet
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)	:	1.13 Approx.
Solubility in Water	:	Practically Insoluble.
Explosive/Oxidising Properties	:	Explosive limits not determined. Avoid oxidising agents, reducing agents and metal oxides.

10. Stability and Reactivity

TMPTMA polymerises exothermically unless inhibited. TMPTMA is inhibited with p-methoxyphenol. To maintain inhibitor activity, oxygen should be present above TMPTMA - 50. Exothermic polymerisation may occur if exposed to: heat, free radical initiators, absence of oxygen, direct sunlight. Avoid direct contact with free radical initiators, oxidising and reducing agents, metal oxides. Combustion will generate: oxides of carbon, acidic smoke and irritating fumes.

11. Toxicological Information

LD 50 oral, rat : 5700 mg/kg.
LD 50 dermal rabbit : 16000 mg/kg.
May cause skin sensitisation with man

12. Ecological Information

This product is moderately toxic to aquatic species e.g. 96h LC 50 2mg/litre on rainbow trout. TMPTMA is inherently biodegradable and not expected to bio accumulate. Avoid entry into drain and water courses.

13. Disposal Consideration

Dispose of in accordance with all applicable local and national regulations. Incineration is the recommended method of disposal.

14. Transport Information

UN Number : 3082
ADR/RID Class : 9
ADR/RID Item No. : 11 (c)
IMDG – Class : 9
IMDG - Maritic : P
Pollutant

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>
Xn	: Harmful.
N	: Dangerous to the environment.
<u>Risk phrase(s)</u>	<u>Definition</u>
R 20/22	: Harmful by inhalation and if swallowed.
R 36/37	: Irritating to eyes and respiratory system.
R 40	: Possible risk of irreversible effects.
R 43	: May cause sensitisation by skin contact.
<u>Safety phrase(s)</u>	<u>Definition</u>
S 36/37	: Wear suitable protective clothing and gloves.
WGK Classification	: 2 (Voluntary)

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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