

1. Identification of Substance and Company	
Product Name	: SIN RUBTECH® POLYMER BOUND PREDISPERSED PbO – 90G
Trade Name	: PbO – 90G
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.
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2. Composition / Information on ingredients <i>Komposisi/ Maklumat Bahan</i>	
A proprietary predispered 90% Lead Oxide (Litharge) in a 10% elastomeric / processing aids binder.	
CAS No <i>No. Cas</i>	PbO : 1317-36-8
	Hazard Symbol : Xn <i>Symbol Bahaya</i>
	Binder : Trade Secret
	R phrases : 22, 36/38, 48 <i>Kod Risiko</i>
	:

3. Hazards Identification <i>Pengenalpastian Bahaya</i>	
Hazard Designation <i>Kategori Bahaya</i>	: Harmful <i>Memudaratkan</i>
<u>Health Hazards</u> <i>Risiko Kesihatan</i>	: -
Inhalation <i>Sedutan</i>	: Not Applicable <i>Tiada Berkenaan</i>
Skin Contact <i>Sentuhan Kulit</i>	: Irritant <i>Merengsa</i>
Eye Contact <i>Sentuhan Mata</i>	: Irritant <i>Merengsa</i>
Ingestion <i>Penghadaman</i>	: Danger of cumulative effects <i>Bahaya kesan pendedahan yang berpanjangan</i>
Others <i>Lain-lain</i>	:

4. First-aid Measures Langkah-Langkah Pertolongan Cemas	
General / AM	: If you feel unwell, seek medical advice (show the label where possible) <i>Jika merasa kudang sihat, dapatkan nasihat perubatan (tunjukkan label jika perlu)</i> Do not drink alcohol after exposure <i>Jangan minum arak selepas mengendali bahan</i>
Inhalation Sedutan	: After inhalation of vapours during processing remove to fresh air. <i>Jika aerosol atau kabut terbentuk pindahkan mangsa ke kawasan berudara segar</i>
Skin Contact Sentuhan Kulit	: Wash with plenty of water and soap. <i>Cuci dengan menggunakan sabun dan air yang banyak</i>
Eye Contact Sentuhan Mata	: Wash with plenty of water and obtain medical attention if any sensation persists. <i>Bilas mata sebersih-bersihnya menggunakan air yang banyak dan sekiranya berlaku ketidakselesaian yang berterusan jumpa pakar oftalmologi.</i>
Ingestion Penghadaman	: Remove material from mouth. Wash with water. Give water to drink. If large amounts swallowed or symptoms develop seek medical attention. <i>Keluarkan bahan daripada mulut. Minta mangsa berkumur-kumur dengan air. Minum air. Jika tertelan sejumlah besar bahan mesti jumpa doctor dengan segera.</i>

5. Fire-fighting Measures Langkah-Langkah Pemadaman Kebakaran	
Extinguishing Media Media Pemadaman	: Water spray, foam, carbon dioxide, dry chemicals. <i>Penyumbur Air,, Korbon Dioksida, ubat-ubatan yang kering dan buih.</i>
Special Protective Equipment Peralatan Kecemasan Istimewa	: Protective clothing and self-contained breathing equipment should be available for firemen. <i>Pakailah kelengkapan perlindungan diri dan pakailah kelengkapan perlindungan pernafasan yang tidak bergantung pada udara sekitaran.</i>
Hazardous decomposition/	: Fumes of lead compounds

6. Accidental Release Measures Langkah-Langkah Pengawalan Pelepasan Tidak Sengaja	
Methods for Cleaning / Collecting Cara Pembersihan/ Pengutipan	: Sweep up and transfer product to a suitably labelled container and dispose at an approval site. <i>Asingkan dan tutup bekas yang rosak dengan segera dan buangkan di tempat yang diluluskan.</i>

7. Handling and Storage Pengendalian Dan Penyimpanan	
Handling Pengendalian	: Normal industrial good housekeeping practices should be followed as for any rubber additive. Prevent static discharge. <i>Pengendalian yang selamat mesti dipatuhi. Elakkan caj static.</i>
Storage Penyimpanan	: Keep in a cool and dry place with good air circulation. <i>Simpan di tempat yang dingin dan kering serta mempunyai pengalidufaraan yang baik.</i>

8. Exposure Controls / Personal Protection <i>Kawalan Pendedahan Dan Perlindungan Diri</i>	
General Precautions <i>Kawalan Am</i>	: Good industrial hygiene should be followed. <i>Kebersihan industri yang baik mesti dipatuhi.</i>
Ventilation <i>Pengalihudaraan</i>	: Adequate ventilation should be maintained when handling heated product. <i>Pastikan penyedutan yang sesuai di tempat kerja dan apabila mengendalikan jentera kendalian.</i>
Occupational Exposure Limits <i>Had Pendedahan</i>	: See item 15. <i>Lihat seksyen 15.</i> (OES-TWA 5.0mg/m ³ Respirable dust/ <i>Habuk penyedutan</i>)
Personal Protective Equipment <i>Peralatan Perlindungan Individu</i>	: Normal precautions should be observed as for handling all chemicals. <i>Keselamatan biasa mesti memandang dengan teliti apabila menyentuh semua bahan kimia.</i>

9. Physical and Chemical Properties <i>Sifat – Sifat Fizikal Dan Kimia</i>	
Form/Colour/Odour <i>Rupa/ Warna/ Bau</i>	: Granules / Yellow – Orange / Faint <i>Granul/ Kuning-Jingga / Sedikit</i>
pH	: Not Determined. <i>Tidak ditentukan</i>
Boiling Point <i>Takat Didih</i>	: Not Determined. <i>Tidak ditentukan</i>
Solidify./Melting Point <i>Takat Lebur</i>	: Not Determined. <i>Tidak ditentukan</i>
Flash Point <i>Takat Kilat</i>	: Not Determined. <i>Tidak ditentukan</i>
Auto-ignition Temp. <i>Suhu Pencucuhan</i>	: >200oC
Explosive/oxidizing properties <i>Sifat Meletup/ Mengoxida</i>	: Not Determined. <i>Tidak ditentukan</i>
Vapor pressure <i>Ketumpatan Wap</i> (mbar/20oC)	: Not Determined. <i>Tidak ditentukan</i>
Density <i>Graviti Tentu</i> (g/cm ³)	: 4.51Approx.
Solubility in Organic Solvents <i>Kebolehlarutan dalam Pelarut Organik</i>	: Not Determined. <i>Tidak ditentukan</i>
Solubility in Water <i>Kebolehlarutan dalam Air</i>	: Not Determined. <i>Tidak ditentukan</i>

10.	Stability and Reactivity Kestabilan Dan Kereaktifan
Stability <i>Kestabilan</i>	: Stable to 489oC <i>Stabil hingga 489oC</i>
Conditions to Avoid <i>Keadaan Yang Perlu Elak</i>	: Not known <i>Tidak diketahui</i>
Materials to Avoid <i>Bahan tak Serasi</i>	: Strong Oxidising Agents, hydrogen peroxide, active metals (sodium, potassium) <i>Bahan Pengoksidaan kuat, hydrogen peroksida, logam aktif (natrium, kalium)</i>
Hazardous Decomposition Products <i>Produk Penguraian</i>	: Not known <i>Tidak diketahui</i>
Hazardous Polymerisation <i>Pempolimeran Berbahaya</i>	: Not known <i>Tidak diketahui</i>
11.	Toxicological Information Maklumat Toksikologi
Lead Monoxide (Litharge) Powder Acute Toxicity/ <i>Ketoksiksan</i>	Oral LD50 : dog (anjing) >1400mg / kg Dermal LD50 : rabbit (<i>arnab</i>) 100mg/ 24H MLDmg/kg Inhalation LC50 : Human (Manusia) 10mg/ m3
Genotoxicity IARC 28, ACGIH A3	
12.	Ecological Information Maklumat Ekologi
Degradability <i>Kebolehbiorosotan</i>	: Not Biodegradable. <i>Tidak Kebolehbidegradasian.</i>
Ecotoxicity	: Not known <i>Tidak diketahui</i>
13.	Disposal Consideration Maklumat Pembuangan
Waste Disposal Method	: Incinerate according to local regulations <i>Boleh dibakar di tapak pembakaran hangus yang sesuai atau dilupuskan menurut peraturan yang dikeluarkan oleh pihak berkuasa tempatan yang berkenaan.</i>
Contaminated Container Disposal	: Observe local regulations. <i>Menurut Peraturan-peraturan tempatan.</i>
14.	Transport Information Maklumat Pengangkutan
RID/ADR - ADNR – IMDG - ICAO/IATA - DGR. – Class 9 <i>RID/ADR - ADNR - IMDG - ICAO/IATA - DGR. – Kelas 9</i>	
15.	Regulatory Information Maklumat Pengawalan

Labelling in accordance with EC and its amendments and adaptations:

<u>Symbol / Simbol</u>	<u>Hazard Description</u>
Xn	: Harmful <i>Memudaratkan</i>
	:
<u>Contains/ Mengandung</u>	Lead Monoxide (Litharge) (PbO)
	:
<u>Risk phrase(s)/ Ungkapan Risiko</u>	<u>Definition/ Definisi</u>
R 22	: Harmful if swallowed. <i>Memudaratkan jika ditelan</i>
R 36//38	: Irritating to eyes and skin. <i>Merengsa kepada mata dan kulit</i>
R 48	: Danger of serious damage to health by prolonged exposure. <i>Bahaya yang menjejaskan kesihatan secara serius melalui pendedahan yang berpanjangan</i>
<u>Safety phrase(s)/ Ungkapan Keselamatan</u>	<u>Definition/ Definisi</u>
S 36/37/ 39	: Wear suitable protective clothing, gloves and eye/face protection. <i>Pakailah pakaian perlindungan, sarung tangan dan perlindungan mata/ muka yang sesuai</i>

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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