



SAFETY DATA SHEET

Document ID : SDSCLP-03	Issue Date : 03 April 2015
Revision : 4	Supersedes date : 26 March 2015

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Identification of product

Product Name	: Phenolic microspheres
Trade Name	: PHENOSET microspheres
Chemical name	: Phenol formaldehyde polymer, cured
Manufacturer product ID	: BJO-0930, BJO-0840, EPO-0360, SPO-0620

1.2 Use of product

Functional filler for composites

1.3 Company Identification

MALAYAN ADHESIVES & CHEMICALS SDN. BHD.

No. 9, Jalan Utas 15/7, 40200 Shah Alam,
Selangor Darul Ehsan, MALAYSIA

Tel: +603-5566 1188

Fax: +603-5566 1122

Importer/Distributor:

1.4 Emergency telephone

+603-5566 1188

2. HAZARDS IDENTIFICATION

Not classified as hazardous for use/supply

Dust may cause irritation, experienced as stinging with excessive blinking and tear production.

Material may contain trace amount (<0.2%) of free formaldehyde, which is listed by IARC, NTP and OSHA as a carcinogen. There should be minimal risk when adequate ventilation is used due to the very low formaldehyde concentration.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS no.	EC no.	Weight %	Risk phrases	Hazard Statements
Fully polymerized phenolic resin, inert	NA	NA	>99.8	None	None
Formaldehyde*	50-00-0	200-001-8	<0.2	R45, R68, R23/24/25, R34, R43	H350, H341, H331, H311, H301, H314, H317

Note*: Material is not considered hazardous in the classification of product as its concentration is below concentration cut-off point
Phenosect microspheres is an 'article' fulfilling the exemption of substance registration requirements under REACH article 7(1).

4. FIRST AID MEASURES

Skin contact:

Remove contaminated clothing. Wash skin with soap and water. Obtain medical attention if irritation persists. Wash clothing before reuse.

Eye contact:

Immediately flush eyes with water and continue for several minutes. Obtain medical attention if discomfort persists.

Inhalation:

If signs and symptoms develop, remove person to fresh air. If signs or symptoms persist, obtain medical attention.

Ingestion:

Do not induce vomiting unless instructed to do so by medical personnel. Unless unconscious, give victim lots of water. Obtain medical attention.

Notes to physician:

There is no specific antidote. Treatment or overexposure should be directed at the control of the symptoms and the clinical condition of the patient

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media:

Apply alcohol type or all-purpose type foams by manufacturers recommended techniques for large fires. Use carbon monoxide or dry chemical media for small fires. Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread of fire.

Extinguishing media to be avoided:

None

Unusual fire and explosion hazards:

Avoid dispersion of dust in air to reduce potential of dust ignition / explosion.

Special protective equipment for fire fighters:

Use self-contained breathing apparatus and protective coating.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear suitable protective clothing.

Methods for cleaning up:

Ventilate with fresh air. Collect as much of the spilled material as possible. Use wet sweeping or water to avoid dusting. Collect and place in a closed container. Dispose as approved by your State Regulations.

7. HANDLING AND STORAGE

7.1 **Handling**

General precaution:

For industrial and professional use only.
Avoid dispersion of dust in air.
Electrically bond and ground equipment.
Avoid sparks and flame under dust conditions.
Use with adequate ventilation.

Ventilation:

Special, local ventilation is recommended in areas where containers are opened and their containers are discharged or in any areas where dusting conditions may occur.

Other precaution

{Caution} May undergo spontaneous smouldering if stored or heated in bulk above 35°C under conditions allowing air ingress to the product. Store package material in a cool, well-ventilated area.

Do not store in the sun.

Do not dry in package – use special drying instructions as below.

Microspheres will undergo oxidation at elevated temperatures. Due to the microspheres' excellent insulating characteristics, the internal temperature of the mass can increase to the point where spontaneous ignition and smouldering can occur. The temperature at which this occurs is a function of the geometry, amount of material being heated and available oxygen. Smouldering appears as a soft glow similar to burning charcoal.

Drying instructions for the Phenoset microspheres:

To reduce the moisture content of this product to less than 4%, dry a two-inch layer of the product at a maximum temperature of 75°C for 24 hours. To prevent oven or product contamination, the metal drying tray should be covered with a cloth that will allow the product moisture to evaporate.

7.2 **Storage**

Keep container closed.

7.3 **Specific use (s)**

For industrial and professional use only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 **Exposure limit values** .

No exposure limit has been established.

8.2 **Exposure controls**

8.2.1 *Occupational exposure controls*

Respiratory protection:	Dust respirator, if dusting occurs
Hand protection :	General working gloves are acceptable.
Eye protection :	Safety glasses
Other protective equipment:	Eye bath and safety shower. Adequate ventilation.

8.2.2 *Environmental exposure controls*

None established.

9.	PHYSICAL AND CHEMICAL PROPERTIES	
	Appearance:	Red brown, fine powder
	Odour:	Odourless
	Molecular weight:	>10,000, Fully cured C-stage
	Relative density:	0.20 – 0.80
	Self-ignition temperature:	500°C (ASTM D1929)
	Boiling point:	Does not boil
	Melting point:	Does not melt
	Solubility:	Not soluble in water
10.	STABILITY AND REACTIVITY	
	General:	Stable
	Conditions to avoid:	None known
	Materials to avoid:	Strong acids and base, halogens, acyl halides
	Hazardous decomposition products:	Carbon monoxide, carbon dioxide, formaldehyde and phenol derivatives upon decomposition.
	Hazardous polymerisation:	Will not occur.
11.	TOXICOLOGICAL INFORMATION	
	<p><i>Effects from inhalation:</i> Upper respiratory tract irritation – signs/symptoms may include sneezing, cough, and nasal discharge.</p> <p><i>Effects from ingestion:</i> Gastrointestinal irritation.</p> <p><i>Effects from skin contact:</i> Mechanical skin irritation. May result in itching.</p> <p><i>Effects from eye contact:</i> Mechanical eye irritation. Signs and symptoms may include pain, redness and tears.</p> <p><i>Significant data with possible relevance to human health</i> Formaldehyde has been shown to cause cancer in laboratory animals and mutations in a variety of in-vitro test systems. The relevance of these findings for human is unknown. Formaldehyde is listed as a carcinogen by IARC, NTP and OSHA.</p>	
12.	ECOLOGICAL INFORMATION	
	Ecotoxicity:	None known.
	Mobility:	Does not dissolve in water.
	Persistence and degradability:	Not determined.
	Bioaccumulative potential:	Unknown.
13.	DISPOSAL CONSIDERATIONS	
	Dispose off in accordance with appropriate National and local regulations.	

14. TRANSPORT INFORMATION

UN Number, ADR/RID:	Not restricted for transportation.
IMDG/ICAO:	Not restricted for transportation.
MONT-BLANC:	Not restricted for transportation.

15. REGULATORY INFORMATION

Label Elements [Regulations (EC) No. 1272/2008]

None – Not classified as hazardous

Inventory Listed In:

China IECSC, EU EINECS, US TSCA, Canada DSL, Japan ENCS, Korea KECL, Taiwan NECI, Philippine PICCS, Australia AICS, New Zealand NZIoC

16. OTHER INFORMATION

Text of R phrases referred to under headings 3

R45	May cause cancer
R68	Possible risk of irreversible effects
R23/24/25	Toxic by inhalation, in contact and if swallowed
R34	Causes burns
R43	May cause sensitization by skin contact
H317	May cause an allergic skin reaction

Text of H phrases referred to under headings 3

H350	May cause cancer
H341	Suspected of causing genetic defects
H331	Toxic if inhaled
H311	Toxic in contact with skin
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction

Product category:

Phenose microspheres is an 'article' fulfilling the exemption of substance registration requirements under REACH article 7(1).

Text on Label:

CAUTION! May undergo spontaneous smouldering if stored or heated in bulk above 35C under conditions allowing air ingress to the product.

Store in cool, well-ventilated area.

Do not store in the sun

Do not dry in package – refer special drying instructions.

FOR INDUSTRIAL USE ONLY

Recommended usage and restrictions:

Please consult the product and/or applications information bulletins for this product.

Disclaimer

The information contains herein is correct to the best of our knowledge. We disclaim any liability as to the recommendations or completeness of the information. The final evaluation on the fitness of use lies on the user's digression. All material has hidden hazards and should be used with extreme care. Even though various hazards had been listed herein, we do not warranty that those are the only existing hazards.

Revision Date: 03 April 2015

Revision Summary: Section 3 – classification of formaldehyde.
Section 16 – Text of R- and H-phrases