

MATERIAL SAFETY DATA SHEET

 SDS number:
 MTL/2823

 Issue Date:
 16/08/2011

 Version:
 1.0

 Product name:
 FERROSPHERES-N

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY / UNDERTAKING

Product name

FERROSPHERES-N

MTL/FER

Product Code:

Company Identification

Fax Number: E-mail: Emergency Telephone: Microsphere Technology Limited, Ballinakill, Kilfinny, Adare, Co. Limerick, Ireland +44 (0)131 448 1111 info@microspheretechnology.com +44 (0)131 440 1884

2. HAZARDS IDENTIFICATION

INDICATION OF DANGER:

Xi Irritant

RISK PHRASES:

R36/37/38 Irritating to eyes, respiratory system and skin.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation:

Hollow glass microspheres coated with iron oxide.

Glass, oxide,	Percentage >50	CAS number 65997-17-3	EU number 266-046-0	Hazard None	Risk Phrase S22, S24, S24/25, S26,
chemicals Iron oxide	< 50	1317-61-9	215-277-5	Xi	S28, S39, S51 R36/37/38 S26-36/37/39

4. FIRST AID MEASURES

Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Skin contact:	Immediately flush skin with plenty of soap and water. If signs/symptoms develop, get medical attention.
Eye contact:	Immediately flush eye(s) with copious amounts of water. If signs/symptoms persist seek medical attention.
Ingestion:	Do not induce vomiting unless instructed to do so by medical personnel. Wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Non-combustible. Extinguishers appropriate for the surrounding fire should be used.
Special risk(s):	Emits toxic fumes under fire conditions.
Protective equipment:	Fire-fighters exposed to combustion/decomposition products should use a respiratory protective device and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Wear disposable coveralls and discard them after use.
Methods for cleaning up:	Evacuate area. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Vacuum or wet sweeping may be used to avoid dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Advice on safe handling: This product should only be handled by personnel trained in the handling of potentially hazardous materials. Do not breathe dust. Care should be taken to prevent the material coming into contact with skin, eyes, mouth and personal clothing. Avoid prolonged or repeated exposure.

Storage conditions:Keep in a tightly closed container, stored in a cool, dry,
ventilated area. Protect against physical damage.
Containers of this material may be hazardous when empty
since they retain product residues (dust, solids); observe all
warnings and precautions listed for the product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Safety shower and eye bath. Mechanical exhaust required.

Respiratory protection:	Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with type P2 particulate filters.			
Eye protection:	Chemical safety goggles			
Skin Protection:	Compatible chemical-resistant gloves			
Other protection:	General hygiene measures: Wash thoroughly after handling.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical form:	Powder
Colour:	Brown
Odour:	None
Boiling point:	Not determined
Melting point:	Not determined
Flash point:	Not applicable
pH:	Not applicable
Specific gravity	<1.0g/cm ³
Viscosity:	Not applicable
Water solubility:	Insoluble

10. STABILITY AND REACTIVITY

Stability:	Stable. Hazardous polymerization will not occur.
Conditions to avoid:	None known.
Materials to avoid:	Strong acids, peroxides, chloroformates.
Hazardous decomposition:	Nature of decomposition products not known.

11. TOXICOLOGICAL INFORMATION

Iron oxide:

Signs and Symptoms of Exposure:	To the best o	f our knowle	dge, the	e cher	nical, p	hysical and
	toxicological	properties	have	not	been	thoroughly
	investigated.					

Route of Exposure:

Skin Contact: Causes skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: Causes eye irritation. Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract. Ingestion: May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
Mobility:	No data available.
Bioaccumulative potential:	No data available.
Persistence and degradability:	No data available.

13. DISPOSAL CONSIDERATIONS

Advice on disposal	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
	rederal, state, and local environmental regulations.

Contaminated packaging Rinse with water and dispose of as waste.

14. TRANSPORT REGULATIONS

RID/ADR	Non-hazardous for rail/road transport.
ICAO/IATA	Non-hazardous for air transport.
IMDG	Non-hazardous for sea transport.

15. REGULATORY INFORMATION

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER:	Xi. Irritant.	
Risk Phrases:	R36/37/38	Irritating to eyes, respiratory system and skin.
Safety Phrases:	S22 S24/25 S26-36/37/39	Do not breathe dust. Avoid contact with the skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection.

S51

Use only in well ventilated areas.

Country Specific Information:

Germany WGK: No hazard to waters. ID-Number: 751 KBwS-Decision

16. OTHER INFORMATION

Limitations of Use of Product:

For industrial or professional use only.

The information contained in this document is correct to the best of our knowledge at the date of publication. It should not be viewed as all inclusive, but as a guide only. It does not represent any guarantee of the properties of the product. Microsphere Technology Ltd. shall not be held liable for any damage resulting from handling of, or from contact with, the above product. For these reasons, it is important that product users carry out their own tests to satisfy themselves as to the suitability of the safety precautions for their own intended applications. Copyright 2011 Microsphere Technology Ltd. License granted to make unlimited paper copies for internal use only.