



**ORION**

# MATERIAL SAFETY DATA SHEET

## ORION 60BI & 60BA BLACK MAGNETIC PARTICLE

### 1. IDENTIFICATION

Company: THE ORIENTAL CHEMICAL WORKS (P) LTD  
Address: 1/1B Gobinda Addy Road, Chetla, Calcutta - 700027. India  
Telephone No.: +9133 24799385; +9133 24796428  
Fax: +9133 24796723  
Product Use: Black Magnetic Particle inspection process defined by ASTM E-1444  
Packages: 5 Liters, 10 Liters, 20 Liters & Aerosol containers  
NFPA Rating: Health 1, Flammability 2, (Aerosol 4), Reactivity 0

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>% by Weight (in bulk)</u>	<u>% by Weight (in aerosol)</u>
Hydrotreated light distillate	64742-47-8	80-95	70-80
Liquefied petroleum gasses (propellant, aerosol only)*	68476-86-8		35-45

### 3. HEALTH HAZARDS

Eye Contact: Liquid may cause mild irritation, redness, tearing and stinging of eyes.  
Skin Contact: May cause skin irritation with prolonged or repeated contact.  
Swallowing: Small amounts may not produce harmful effects. Large amounts may be harmful.  
Inhalation: Small amounts may not be harmful. Large amounts may be harmful.  
Over Exposure: Stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, fatigue, headache).

### 4. FIRST AID

Eyes: Flush eyes with clean water holding eyelids open. Seek medical attention.  
Skin: Remove contaminated clothing. Wash exposed area with soap and water. Apply moisturizing lotion. Launder clothing before reuse.  
Swallowing: Do not induce vomiting. Small amounts are not expected to cause significant harm.  
Inhalation: Remove to fresh air.

### 5. FIRE HAZARDS

Flash Point: >101.7°C (>215°F) PMCC  
Explosive Limit: Not established  
Autoignition Temperature: Not established  
Hazardous Products of Combustion: May form carbon dioxide and carbon monoxide.  
Fire and Explosion Hazards: Sealed containers may burst when heated.  
Extinguishing Media: Dry chemical, foam or carbon dioxide.  
Fire Fighting Instructions: Water may be ineffective. Water spray may be used to keep fire exposed containers cool.

### 6. ACCIDENTAL RELEASE MEASURES

Spill: Ventilate area. Remove all sources of ignition. Wear protective gear. Collect liquid in an appropriate container or absorb with an inert material such as vermiculite, dry sand, or earth; DO NOT use combustible materials, and place in a chemical waste container. Do not flush to sewer.

### 7. HANDLING and STORAGE

Handling: Protect against physical damage. Store in a cool, dry well-ventilated location, away from areas where fire hazard or ignition sources may exist. Store and use in NO SMOKING area. Empty containers may contain residue liquid and vapors.

### 8. EXPOSURE CONTROLS and PERSONAL PROTECTION

Eye Protection: Chemical splash goggles, safety glasses are advised.  
Skin Protection: Wear resistant gloves, impervious clothing and boots are suggested as well.  
OSHA Exposure Limits: (VPEL): 5 mg/M (TWA)  
ACGIH Threshold Limit: (TLV): 5 mg/M (TWA), 10 mg/M (STEL)  
Ventilation System: A system of local or general exhaust is recommended to keep employee exposure below the airborne exposure Limits. Personal Respirators (NIOSH approved) if exposure limit is exceeded.

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### **9. PHYSICAL PROPERTIES**

Initial Boiling Point: >221.1°C (>430°F) @ 760 mm Hg. Vapor Pressure : na  
Specific Gravity: 0.8-0.81 @ 60°F Specific Vapor Density Air=1: 6.2  
Appearance: clear colorless liquid. Solubility in Water: insoluble

### **10. STABILITY and REACTIVITY**

Stability: Stable under ordinary conditions of use and storage.  
Hazardous Polymerization: Will not occur.  
Incompatibilities: Avoid contact with strong oxidizing agents.

### **11. TOXICOLOGICAL INFORMATION**

No data available on product.

### **12. ECOLOGICAL INFORMATION**

No data available on product.

### **13. DISPOSAL CONSIDERATION**

Dispose of container and unused contents with a licensed waste facility as a non-hazardous oily waste.

### **14. TRANSPORTATION**

#### **DOT Information- 49CFR172.101**

Shipping name:  
Label:  
Hazard class:  
Identification #:  
Packing Group:

#### **Bulk**

Stain  
None  
None  
None  
None

#### **Aerosol**

Consumer Commodity  
ORM-D  
ORM-D  
NA  
NA

#### **IATA**

Shipping name:  
Label:  
Hazard class:  
Identification #:  
Packing Group:

#### **Bulk**

Not regulated Aerosols,  
None  
None  
None  
None

#### **Aerosol**

Inflammable  
Inflammable gas  
2.2  
UN1950  
NA

### **15. REGULATORY INFORMATION**

TSCA: Listed  
CERCLA RQ- 49CFR302.4(a): None listed  
SARA 302 Components-40CFR355 appendix A: None  
Section 311/312 Hazard Class-40CFR370.2: Immediate ( ), Delayed ( ), Fire ( ), Reactive ( ), Sudden release of pressure ( )  
SARA 313 components-40CFR372.65: None.

### **16. OTHER INFORMATION**

Revision Number and Date: 1.01; 1st April 2006  
Supercedes: 1st April 2004  
Prepared by: N.D.Chakraborty Sr. Analyst