

# MATERIAL SAFETY DATA SHEET

Quick Identifier (In Plant Common Name): OSBORN DRY GRAPHITE

## MANUFACTURER INFORMATION

**MANUFACTURER'S NAME:** OSBORN MANUFACTURING  
**ADDRESS:** 5401 Hamilton Avenue, Cleveland, OH 44114  
**EMERGENCY TELEPHONE NUMBER:** 330-467-4195  
**DATE PREPARED:** October 1<sup>ST</sup>, 2007

## SECTION 1 - IDENTITY

**COMMON NAME (used on label)(Trade Name & Synonyms):** OSBORN DRY GRAHITE P/N 76210  
**CAS. NUMBER:** See Section 2  
**CHEMICAL NAME:** N/A  
**CHEMICAL FAMILY:** N/A  
**FORMULA:** N/A

## SECTION 2 - HAZARDOUS INGREDIENTS

### Principal Hazardous Component(s)

CHEMICAL AND COMMON NAME(S)	CAS #	OSHA PEL	ACGIH TLV	VAPOR PRESS @ 25 DEG. C	LEL	UEL	FLASH POINT DEG. F	Wt %
Hexane**	110-54-3	50ppm	50ppm	140 mmHg	1.2	7.5	< 0(TCC)	60 - 70
Graphite	7782-42-5	5mg/m3	2mg/m3	n/a	n/a	n/a	n/a	<1
Liquefied Petroleum Gas (Propellant)	68476-85-7	1000ppm	1000ppm	3691 mmHg	2.0	10.0	-156 Est.	30 - 40

\*\*NOTE: This product contains ingredients subject to Section 313 of SARA Title III.  
N/A is not available or not applicable

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**SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS**  
**(Fire & Explosion Data)**  
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**BOILING POINT (Deg. F):** Concentrate Range: 175  
Propellant: -16.0

**SPECIFIC GRAVITY (Water = 1):** Concentrate: 0.80  
Propellant: 0.50

**VAPOR PRESSURE (mmHg):** See Section 2

**VAPOR DENSITY (Air = 1):** >1

**EVAPORATION RATE (BA = 1):** >1

**SOLUBILITY IN WATER:** Slight

**REACTIVITY IN WATER:** None

**APPEARANCE AND ODOR:** CONCENTRATE: Liquid with characteristic odor; PROPELLANT: Colorless, odorless gas; FINISHED PACKAGE: Pressurized containers.

**FLASH POINT:** See Section 2

**FLAMMABLE LIMITS IN AIR - % BY VOLUME:** See Section 2

**EXTINGUISHER MEDIA:** Carbon dioxide, foam, dry chemical

**AUTO-IGNITION TEMPERATURE:** Unknown

**SPECIAL FIRE FIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure build-up and possible bursting when exposed to high temperatures. Firemen should wear self-contained respiratory equipment.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Extremely flammable. Contents under pressure. Do not use or store near heat or ignition sources. Containers may burst at temperatures above 130 deg. F.

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**SECTION 4 - PHYSICAL HAZARDS**  
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**STABILITY:** Stable

**CONDITIONS TO AVOID:** Avoid any ignition sources. Avoid excessive heat.

**INCOMPATIBILITY (Materials to Avoid):** Nitric plus Acetic Acids, Nitric plus Sulfuric Acid, Amines, Strong Oxidizing Agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Not Applicable.  
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**SECTION 5 - HEALTH HAZARDS**  
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**THRESHOLD LIMIT VALUE:** See Section 2

**SIGNS AND SYMPTOMS OF EXPOSURE:** **EYE CONTACT:** May cause moderate eye irritation and moderate corneal injury. Vapors may irritate eyes; **SKIN CONTACT:** Prolonged contact may cause irritation, defatting of skin; **INHALATION:** May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: Headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage; **INGESTION:** If aspirated (liquid enters the lungs), it may be rapidly absorbed through the lungs and result in injury to other body systems. Gastro-intestinal distress.

***IMPORTANT NOTE:** REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS MAY LEAD TO PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. EYE WATERING, HEADACHES, NAUSEA, DIZZINESS AND LOSS OF COORDINATION ARE SIGNS THAT SOLVENT LEVELS ARE TOO HIGH. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.*

**CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:**

NATIONAL TOXICOLOGY PROGRAM: No

I.A.R.C. MONOGRAPHS: No

OSHA: No

**OSHA PERMISSIBLE EXPOSURE LIMIT:** See Section 2

**ACGIH THRESHOLD LIMIT VALUE:** See Section 2

**OTHER EXPOSURE LIMIT USED:** None

EMERGENCY AND FIRST AID PROCEDURES

**INHALATION:** Remove to fresh air. If not breathing, give mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. **EYES:** Flush with flowing water immediately and continuously for 15 minutes. Consult medical personnel. **SKIN:** Wash off in flowing water or shower. Remove contaminated clothing and wash before reuse. If irritation persists, call a physician. **INGESTION:** Do not induce vomiting. Call a physician immediately.

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**SECTION 6 - SPECIAL PROTECTION INFORMATION**  
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**RESPIRATORY PROTECTION:** NIOSH or Bureau of Mines approved organic vapor-type respirator is required in absence of proper environmental control.

**VENTILATION:**

LOCAL EXHAUST: To keep below TLV

MECHANICAL (General): To keep below TLV

SPECIAL: None

OTHER: None

**PROTECTIVE GLOVES:** Solvent resistant gloves - impervious gloves

**EYE PROTECTION:** Safety glasses or goggles

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None reasonably foreseeable.

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**SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES**  
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**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Do not store above 120 deg. F. Avoid breathing vapors. Avoid prolonged or repeated contact with skin.

**OTHER PRECAUTIONS:** Extremely flammable. Do not use or store near open flames, heat, or any sources of ignition. Contents under pressure. Do not puncture or incinerate. Vapors are heavier than air and will collect in low areas.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** **SMALL SPILLS:** Remove ignition sources. Mop up, wipe up, or soak up immediately. Use proper protective equipment.

**LARGE SPILLS:** Evacuate area. Remove ignition sources. Contain liquid; transfer to closed containers; keep out of water supplies.

**WASTE DISPOSAL METHODS:** Dispose in accordance with Federal, State, and Local regulations. Do not incinerate closed or empty containers.

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**SECTION 8 – NFPA HAZARD RATINGS**  
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Health = 2      Flammability = 4      Reactivity = 0

**Section 9 - Other Information**

**TRANSPORTATION INFORMATION – DOMESTIC GROUND**

Shipping Name:	Consumer Commodity
Hazard Class:	ORM-D
UN Number:	N/A
Packing Group:	N/A
Hazard Label:	None
Carton Marking:	Consumer Commodity, ORM-D

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