



# MATERIAL SAFETY DATA SHEET

## Product# Oxy-36

Last Updated February 24, 2009

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with current ISO standards and ANSI MSDS standards and is compliant with current U.S. and International Requirements.

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Oxy-Dry Anti-Offset Powder, Type Oxy-36**

CAS Number: 9005-25-8

Chemical Family: Carbohydrate

Company Identification: **Oxy-Dry Corporation**

[www.oxydry.com](http://www.oxydry.com)

1208 North Swift Road

Addison, IL 60101 USA

1-630-678-5300 (For product information)

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**WARNING! NUISANCE DUST WITH POSSIBILITY OF DUST EXPLOSION**

HMIS/NFPA Rating: See Section 16

#### POTENTIAL HEALTH EFFECTS

**ROUTES OF ENTRY:** Skin contact. Eye contact. Inhalation. Ingestion.

**TARGET ORGANS:** None known

**INHALATION:** Low order of toxicity

**INGESTION:** No hazard in normal industrial use.

**SKIN CONTACT:** Possible mechanical skin irritation.

**EYE CONTACT:** Particulate may scratch eye surfaces/cause mechanical irritation.

**CHRONIC EXPOSURE:** None known

**AGGRAVATION OF PRE-EXISTING CONDITIONS:** None known

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>	<u>Hazardous</u>	<u>OSHA PEL (ppm)</u>	<u>ACGIH STEL (ppm)</u>
Carbohydrate	100%	9005-25-8	NO	500	500

**California Prop 65:** This product does NOT contain an ingredient(s), above the safe harbor limits, which are



known to the state of California to cause cancer, birth defects, or other reproductive harm.

**HAZARDS DISCLOSURE:** This product does NOT contain known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### **4. FIRST AID MEASURES**

**INHALATION FIRST AID:** Remove to fresh air. If continuing to have breathing problems seek medical attention.

**SKIN CONTACT FIRST AID:** Wash with soap and water.

**EYE CONTACT FIRST AID:** Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

**INGESTION FIRST AID:** Not applicable.

**STATEMENT OF PRACTICAL TREATMENT:** Always have plenty of water available for first aid. Get medical attention if any symptoms develop or persist.

#### **5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES:** Possible Combustible Dust.

**AUTO IGNITION TEMPERATURE:** 390 °C (750 °F)

**FLASH POINT:** Not applicable

**FLAMMABLE LIMITS IN AIR, % by Volume:** lel: NA; uel: NA

**EXTINGUISHING MEDIA:** Dry chemical, foam, carbon dioxide, or water fog..

**FIRE & EXPLOSION HAZARDS:** Minimum ignition temperature of dust cloud – approximately 390°C.  
Minimum energy to ignite cloud by electrical spark – approximately 0.10 joules.

**SPECIAL INFORMATION:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Carbon monoxide and carbon dioxide will be released if this product is involved in a fire.

#### **6. ACCIDENTAL RELEASE MEASURES**

**SPILL AND LEAK PROCEDURES:** Normal precautions for “nuisance dust” should be observed. Avoid prolonged inhalation of dust. Sweep up or vacuum up and place in suitable container for disposal. Waste disposal should be in accordance with existing Federal, State and Local environmental regulations.

#### **7. HANDLING AND STORAGE**

**RECOMMENDED STORAGE CONDITIONS:**

Storage Temperature: Ambient

Special Sensitivity: No special sensitivity.

Storage: Store in a clean, dry, well ventilated warehouse away from odorous materials.

Ventilation Requirements: General

Sensitive to Static Electricity: Yes

Sensitive to Mechanical Impact: No

**SHELF LIFE:** See Label on packaging.

**HANDLING (PERSONNEL):** Use good occupational work practices. Observe manufacturer's storing and handling recommendations.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**AIRBORNE EXPOSURE LIMITS:** See Section 3 above.

Starch:

-ACGIH Time Weighted Average Exposure Limit (TWA):

15 mg/m<sup>3</sup>

**VENTILATION SYSTEM:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**PERSONAL RESPIRATORS (NIOSH APPROVED):** If the exposure limit is exceeded, a particulate filter respirator (NIOSH type N95) may be worn.

**RESPIRATORY PROTECTION:** Airborne concentrations should be kept to lowest levels possible. If dust is generated and the occupational exposure limit of the product is exceeded a particulate filter respirator (NIOSH type N95) is required.

**GLOVE REQUIREMENTS:** Gloves are recommended due to possible irritation.

**CLOTHING REQUIREMENTS:** Not Applicable.

**EYE PROTECTION:** Safety glasses recommended to prevent eye contact.

**9. PHYSICAL AND CHEMICAL PROPERTIES**



<b>PHYSICAL FORM:</b> Solid	<b>COLOR:</b> White
<b>ODOR:</b> Starch odor	<b>BOILING POINT:</b> Not Applicable
<b>SOLUBILITY IN WATER:</b> Soluble; Hot water	<b>SPECIFIC GRAVITY:</b> Not Applicable
<b>MELTING/FREEZING POINT:</b> Not Applicable	<b>Evaporation Rate (BuAc=1):</b> Not Applicable
<b>AUTO IGNITION TEMPERATURE:</b> Not Applicable	<b>FLASH POINT:</b> Not Applicable
<b>pH:</b> Not Applicable	<b>VAPOR PRESSURE:</b> Not Applicable
<b>% VOLATILES BY VOLUME</b> None	<b>BULK DENSITY:</b> ca.0.5 g/cc

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under ordinary conditions of use and storage.

**CONDITIONS TO AVOID:** Heat, flames, ignition sources, electrostatic discharge, dust accumulations and water (absorbs readily)

**HAZARDOUS DECOMPOSITION:** Carbon dioxide, nitrogen, carbon monoxide and water may form when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

### PRODUCT TOXICOLOGY:

Notes on Eye Irritation: Physical form may cause irritation  
Notes on Dermal Toxicity: Non-Hazardous  
Notes on Oral Toxicity: Low order of Toxicity

### CHRONIC LONG TERM EFFECTS OF EXPOSURE:

Route of Entry: Eye contact, skin contact, inhalation, ingestion  
Effects of Chronic Exposure: Not Established  
Target Organs: Not Applicable  
Special Health Effects: None Known

### Carcinogenicity:

Carcinogenic effects: None known  
Mutagenic effects: None known  
Teratogenic effects: None known.

Cancer Lists

#### Ingredient

Carbohydrate (9005-25-8)

---NTP Carcinogen---

#### Known

No

#### Anticipated

No

#### IARC Category

None

## 12. ECOLOGICAL INFORMATION



**POTENTIAL EFFECT ON ENVIRONMENT:** Contributes to effluent BOD

**Mobility:** Unknown

**Persistence and Degradability:** Biodegradable

**Potential to Bio-Accumulate:** Low – degrades rapidly

**Ecotoxicity:** Low, but has a BOD contribution

**Aquatic Toxicity:** None Established

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Waste dispose of container and unused contents in accordance with federal, state and local requirements.

**EMPTY CONTAINER WARNINGS:** Not needed.

### 14. TRANSPORTATION INFORMATION

**Domestic (Land, D.O.T.), International (Water, I.M.O.), International (Air, I.C.A.O.)**

CLASS: Non-Hazardous  
 PRODUCT LABEL: Modified Starch  
 UN NUMBER: N/A  
 PACKING GROUP: N/A  
 D.O.T. SHIPPING NAME: Modified starch  
 PRODUCT RQ (LBS): N/A  
 ERG Guide Number: N/A  
 SUPPLEMENTAL HAZARD: N/A  
 Vessel Stowage: Location: N/A

### 15. REGULATORY INFORMATION

**FEDERAL REGULATORY STATUS**

***Chemical Inventory Status - Part 1***

Ingredient	<u>TSCA</u>	<u>EC</u>	<u>Japan</u>	<u>Australia</u>
Carbohydrate	YES	YES	YES	YES

***Chemical Inventory Status - Part 2***

Ingredient	<u>Korea</u>	<u>DSL</u>	<u>CANADA</u>	<u>Phil.</u>
Carbohydrate	YES	YES	<u>NDSL</u> YES	YES

**Chemical Weapons Convention:** No    **TSCA 12(b):** No    **CDTA:** No



**OXY - DRY**  
**FOOD BLENDS**

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Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean Air Act (CAA) 112 No products were found.  
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**SARA 311/312:** Acute: No    Chronic: No    Fire: No    Pressure: No  
Reactivity: No (Pure / Liquid)

### **STATE REGULATIONS:**

None

### **PROP 65 - WARNING: NONE**

THIS PRODUCT DOES NOT CONTAIN A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

**RCRA 40 CFR:** N/A.

### **INTERNATIONAL REGULATIONS:**

**Canadian Environmental Protection Act:** All of the components of this product are included on the Canadian Domestic Substances List (DSL)

### **Canadian Workplace hazardous Materials Information System (WHMIS):**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS Classification:

None

**European Inventory of Existing Chemical (EINECS):** All of the components of this product are included on EINECS,

### **EU Classification:**

**EU Risk (R) and (S) Phrases:**

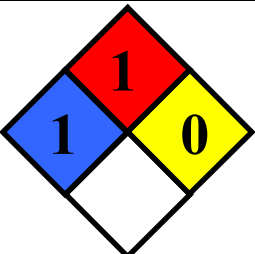
**R 36 IRRITATING TO EYES**

**R 38 IRRITATING TO SKIN**

**16. OTHER INFORMATION**

**LABEL REQUIREMENTS: WARNING! NUISANCE DUST COULD CAUSE COMBUSTIBLE DUST EXPLOSION.**

Hazardous Material Information System (HMIS):	<b>Health</b>	<b>1</b>
	<b>Flammability</b>	<b>1</b>
	<b>Reactivity</b>	<b>0</b>
	<b>Personal Protection</b>	<b>A</b>

National Fire Protection Association (NFPA):	
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NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

Protective Equipment: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER.

Prepared By: Paul Eigbrett (MSDS Authoring Services)

Part Number: Oxy-36

Approved By: Oxy-dry Corporation

Environmental Health and Safety Department

Approval Date: February 24, 2009

Supersedes Date: New

**ADDITIONAL INFORMATION:**

This information given and the recommendations made herein apply to our product. Such are based on our research and on data from other reliable sources and are believed to be accurate, no guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

END OF MSDS