



MATERIAL SAFETY DATA SHEET

Product# Oxy-48

Last Updated June 3, 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-48**

CAS Number: 9005-25-8

Chemical Family: Carbohydrate

Company Identification: **Oxy-Dry Corporation**

email info@oxydry.com

1208 North Swift Road

Addison, IL 60101 USA

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

Web Site: www.oxydry.com

2. 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.

3. HAZARD 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

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):
10 mg/m³

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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: Solid
ODOR: Starch odor
SOLUBILITY IN WATER: Soluble; Hot water
MELTING/FREEZING POINT: Not Applicable
AUTO IGNITION TEMPERATURE: Not Applicable
pH: Not Applicable
% VOLATILES BY VOLUME: None

COLOR: White
BOILING POINT: Not Applicable
SPECIFIC GRAVITY: Not Applicable
Evaporation Rate (BuAc=1): Not Applicable
FLASH POINT: Not Applicable
VAPOR PRESSURE: Not Applicable
BULK DENSITY: 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 | |



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

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.
Clean Air Act (CAA) 112 No products were found.
Clean Air Act (CAA) 112 No products were found.

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.



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| | | |
|---|----------------------------|----------|
| Hazardous Material Information System (HMIS): | Health | 1 |
| | Flammability | 1 |
| | Reactivity | 0 |
| | Personal Protection | A |

| | |
|--|--|
| National Fire Protection Association (NFPA): | |
|--|--|

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)

Approved By: Oxy-dry Corporation

Approval Date: June 3, 2009

Part Number: Oxy-48

Environmental Health and Safety Department

Supersedes Date:

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