1 Identification

- Product identifier
  - Trade name: Oxy-Dry Anti-Offset Powder, Type Oxy-52
  - CAS Number: 9005-25-8
  - EC number: 232-679-6
  - Product description: Carbohydrate

- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: Baldwin Americas Corporation
    14600 W. 106th Street
    Lenexa, KS  66215 USA
    1-800-654-4999 (U.S. Customers)
    1-933-888-9800 (All others)
    www.Baldwintech.com
    email: baldwintech.com

2 Hazard(s) Identification

- Classification of the substance or mixture
  - May cause respiratory irritation.

- Label elements
  - GHS label elements
    The substance is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms
    - GHS07

- Signal word: Warning
- Hazard statements
  - May cause respiratory irritation.
- Precautionary statements
  - Avoid breathing dust/fume/gas/mist/vapors/spray.
  - Use only outdoors or in a well-ventilated area.
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - Call a POISON CENTER/doctor if you feel unwell.
  - Store locked up.
  - Store in a well-ventilated place. Keep container tightly closed.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.
- Classification system:
  - NFPA ratings (scale 0 - 4)
    - Health = 1
    - Fire = 0
    - Reactivity = 0

(Contd. on page 2)
Trade name: Oxy-Dry Anti-Offset Powder, Type Oxy-52

3 Composition/information on ingredients

· Chemical characterization: Substances
  · CAS No. Description
    9005-25-8 Starch
  · Identification number(s)
    · EC number: 232-679-6

4 First-aid measures

· Description of first aid measures
  · After inhalation: Supply fresh air; consult doctor in case of complaints.
  · After skin contact: Generally the product does not irritate the skin.
  · After eye contact: Rinse opened eye for several minutes under running water.
  · After swallowing: Give large amounts of water. If symptoms persist consult doctor.
  · Most important symptoms and effects, both acute and delayed: No further relevant information available.

5 Fire-fighting measures

· Extinguishing media
  · Suitable extinguishing agents:
    · CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  · Special hazards arising from the substance or mixture: No further relevant information available.
  · Advice for firefighters
  · Protective equipment: No special measures required.
  · Additional information
    · Product can be considered a nuisance dust which can have an explosive reaction if in high concentrations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures: Not required.
· Environmental precautions: Do not allow to enter sewers/surface or ground water.
· Methods and material for containment and cleaning up: Ensure adequate ventilation.
· Reference to other sections
  · See Section 7 for information on safe handling.
  · See Section 8 for information on personal protection equipment.
  · See Section 13 for disposal information.

7 Handling and storage

· Precautions for safe handling: No special precautions are necessary if used correctly.
· Information about protection against explosions and fires: No special measures required.
· Conditions for safe storage, including any incompatibilities
  · Storage:
    · Requirements to be met by storerooms and receptacles: No special requirements.
    · Information about storage in one common storage facility: Not required.
Trade name: Oxy-Dry Anti-Offset Powder, Type Oxy-52

- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
  - **Components with occupational exposure limits:**
    | Component | PEL Long-term value: 15* 5** mg/m³ |
    |------------|-----------------------------------|
    |            | *total dust **respirable fraction  |
    | REL Long-term value: 10* 5** mg/m³|
    |            | *total dust **respirable fraction  |
    | TLV Long-term value: 10 mg/m³     |

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**
      - Immediately remove all soiled and contaminated clothing.
      - Wash hands before breaks and at the end of work.
    - **Breathing equipment:**
      - If the exposure limit is exceeded, a particulate filter respirator (NIOSH type N95) may be worn.
    - **Protection of hands:**
      - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
      - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
      - Select glove material based on penetration times, rates of diffusion and degradation.
    - **Material of gloves**
      - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
    - **Penetration time of glove material**
      - The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - **Form:** Powder
      - **Color:** White
    - **Odor:** Starch odor
    - **Odor threshold:** Not determined.
    - **pH-value:** Not applicable.
  - **Change in condition**
    - **Melting point/Melting range:** Not determined.
    - **Boiling point/Boiling range:** Not determined.
  - **Flash point:** Not applicable.

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Trade name: Oxy-Dry Anti-Offset Powder, Type Oxy-52

· **Flammability (solid, gaseous):** Product is not flammable.
· **Ignition temperature:** 390 °C (734 °F)
· **Danger of explosion:** Product can be considered a nuisance dust which can have an explosive reaction if in high concentrations.
· **Density @ 20 °C (68 °F):** 0.65 g/cm³ (5.424 lbs/gal)
· **Solubility in / Miscibility with**
  - **Water:** Soluble.
  - **Organic solvents:** 0.0 %
  - **Solids content:** 100.0 %
· **Other information**
  - Fire & Explosion Hazards: Minimum ignition temperature of dust cloud - approximately 390 C.
  - Minimum energy to ignite cloud by electrical spark - approximately 0.10 joules.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
  - **Possibility of hazardous reactions** No dangerous reactions known.
  - **Conditions to avoid** No further relevant information available.
  - **Incompatible materials:** No further relevant information available.
  - **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
  - **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** No irritating effect.
  - **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
  - **Carcinogenic categories**
    - **IARC (International Agency for Research on Cancer)**
      - Substance is not listed.
    - **NTP (National Toxicology Program)**
      - Substance is not listed.
    - **OSHA-Ca (Occupational Safety & Health Administration)**
      - Substance is not listed.

## 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability** No further relevant information available.
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
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· Additional ecological information:
  · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water
  · Results of PBT and vPvB assessment
    · PBT: Not applicable.
    · vPvB: Not applicable.
  · Other adverse effects: No further relevant information available.

13 Disposal considerations

· Waste treatment methods
  · Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:
  · Recommendation: Disposal must be made according to official regulations.
  · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number
  · DOT, ADR, ADN, IMDG, IATA: Non-Regulated Material
  · UN proper shipping name

· DOT, ADR, ADN, IMDG, IATA: Non-Regulated Material

· Transport hazard class(es)
  · DOT, ADR, ADN, IMDG, IATA: Non-Regulated Material
  · Class
  · Packing group
  · DOT, ADR, IMDG, IATA: Non-Regulated Material
  · Environmental hazards:
    · Marine pollutant: No
  · Special precautions for user: Not applicable.
  · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
  · UN "Model Regulation": -

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · Sara
    · Section 355 (extremely hazardous substances):
      · Substance is not listed.
    · Section 313 (Specific toxic chemical listings):
      · Substance is not listed.
    · TSCA (Toxic Substances Control Act):
      · Substance is listed.
    · Proposition 65
      · Chemicals known to cause cancer:
        · Substance is not listed.
      · Chemicals known to cause reproductive toxicity for females:
        · Substance is not listed.

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Trade name: Oxy-Dry Anti-Offset Powder, Type Oxy-52

- **Chemicals known to cause reproductive toxicity for males:**
  Substance is not listed.

- **Chemicals known to cause developmental toxicity:**
  Substance is not listed.

- **Carcinogenic categories**
  - **EPA (Environmental Protection Agency)**
    Substance is not listed.
  - **TLV (Threshold Limit Value established by ACGIH)**
    9005-25-8 Starch
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    Substance is not listed.

- **GHS label elements**
  The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**
  - **Signal word** Warning
  - **Hazard statements**
    May cause respiratory irritation.
  - **Precautionary statements**
    Avoid breathing dust/fume/gas/mist/vapors/spray.
    Use only outdoors or in a well-ventilated area.
    IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
    Call a POISON CENTER/doctor if you feel unwell.
    Store locked up.
    Store in a well-ventilated place. Keep container tightly closed.
    Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations:**
  Substance is not listed.

- **State Right to Know**
  Substance is not listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 06/20/2014 / 6
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
Trade name: Oxy-Dry Anti-Offset Powder, Type Oxy-52

CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

* Data compared to the previous version altered.

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