1 Identification

- Product identifier
- Trade name: Oxy-Dry Anti-Offset Powder, Type Oxy-20C
- CAS Number: 9005-25-8
- EC number: 232-679-6
- Product description Carbohydrate

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-20C

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.
- Indication of any immediate medical attention and special treatment needed
  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-20C

- 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:

<table>
<thead>
<tr>
<th>Substance</th>
<th>PEL Long-term value:</th>
<th>REL Long-term value:</th>
<th>TLV Long-term value:</th>
</tr>
</thead>
<tbody>
<tr>
<td>9005-25-8 Starch</td>
<td>15* 5** mg/m³ <strong>total dust</strong> <strong>respirable fraction</strong></td>
<td>10* 5** mg/m³ <strong>total dust</strong> <strong>respirable fraction</strong></td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

- **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.
Trade name: Oxy-Dry Anti-Offset Powder, Type Oxy-20C

- **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.
Trade name: Oxy-Dry Anti-Offset Powder, Type Oxy-20C

- 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.
Trade name: Oxy-Dry Anti-Offset Powder, Type Oxy-20C

- **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**
  - 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.

- **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 / 5
- **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-20C

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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