SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier
   Trade Name: PURE-FLO® B-80 Bleaching Earth
   SDS Number: 5001000-E

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against
   Product Use: Process aid for Edible Oils

1.3 Details of the Supplier of the Safety Data Sheet
   Manufacturer:
   Oil-Dri Corporation of America
   410 North Michigan Avenue
   Chicago, IL 60611

   Oil-Dri (UK) Limited
   Bannisters Row
   Wisbech
   Cambridgeshire
   PE 13 3HZ

   Information Phone Number: (312) 321-1515
   E-mail: sds@oildri.com

1.4 Emergency Telephone Number
   Emergency Spill Information:
   Chemtrec (800) 424-9300 (US and Canada)
   (703) 527-3887 (International – Call Collect)

   SDS Date of Preparation: November 11, 2014

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture
   This product is a non-combustible, chemically inert mineral. This product contains <1% respirable silica. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis). The company is not aware of any scientific or medical data available indicating that exposure to dust from this product under conditions of normal use will cause silicosis. Adverse effects would not be expected from normal use of this product.

   GHS Classification: The substance does not meet the criteria for hazardous substances

   EU Classification: The substance does not meet the criteria for dangerous substances

2.2 Label Elements
   Not applicable

   Hazard Phrases: Not applicable

   Precautionary Phrases: Not applicable

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS# / EINECS#</th>
<th>EU Classification (67/548/EEC)</th>
<th>GHS Classification Regulation (EC) No 1272/2008</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fullers Earth and Bentonite Clay – Contains Quartz Respirable silica &lt;1%</td>
<td>8031-18-3 / 1302-78-9 / Not Applicable / 215-108-5</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>100</td>
</tr>
</tbody>
</table>

See Section 16 for further information on EU and GHS Classification.
SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures
   EYE: Immediately flush eyes with cool running water, lifting upper and lower lids. If irritation persists or for foreign body in the eye, get immediate medical attention.
   SKIN: None needed for normal use.
   INGESTION: If large amount of unused material is swallowed, get medical attention.
   INHALATION: Remove to fresh air

4.2 Most Important symptoms and effects, both acute and delayed:
   Eye contact may cause mechanical irritation and possible injury. Inhalation of excessive concentrations of dust may cause irritation of mucous membranes and upper respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed: None known

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media:
   Use media that is appropriate for surrounding fire.

5.2 Special Hazards Arising from the Substance or Mixture
   Unusual Fire and Explosion Hazards: None
   Hazardous Decomposition Products: None

5.3 Special Protective Actions for Fire-Fighters:
   Special Fire Fighting Procedures: None required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:
   Wear appropriate protective equipment.

6.2 Environmental Precautions:
   None known

6.3 Methods and Material for Containment and Cleaning Up:
   Sweep up and collect for re-use or disposal

6.4 Reference to Other Sections:
   None

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:
   Avoid breathing dust. If clothing becomes dusty, launder before re-use.

7.2 Conditions for Safe Storage, Including any Incompatibilities
   Store in a dry area.

7.3 Specific end use(s):
   Bleaching of edible oils.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fullers Earth and Bentonite Clay</td>
<td>4 mg/m³ TWA DFG MAK (inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td>1.5 mg/m³ TWA DFG MAK (respirable fraction)</td>
</tr>
<tr>
<td></td>
<td>4 mg/m³ TWA UK WEL (respirable dust) (as dust)</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ TWA UK WEL (inhalable dust) (as dust)</td>
</tr>
<tr>
<td>Quartz</td>
<td>0.025 mg/m³ TWA ACGIH TLV</td>
</tr>
<tr>
<td></td>
<td>0.1 mg/m³ TWA UK WEL</td>
</tr>
</tbody>
</table>

8.2 Exposure Controls:

ENGINEERING CONTROLS: For operations where the exposure limit may be exceeded, local exhaust ventilation is recommended.

RESPIRATORY PROTECTION: For operations where the exposure limit may be exceeded, an approved high efficiency particulate respirator is recommended.

SKIN PROTECTION: None required for normal use.

EYE PROTECTION: Safety glasses or goggles recommended.

OTHER: None required for normal use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Gray to tan powder</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>&lt;7.8</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammable Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.2</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Octanol/Water Partition Coefficient</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosion Properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2 Other Information:

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Not reactive

10.2 Chemical Stability:

Stable

10.3 Possibility of Hazardous Reactions:

Will not occur.

10.4 Conditions to Avoid:

Not applicable

10.5 Incompatible Materials:

Physical contact between this material and turpentine, hydrofluoric acid, vegetable oil or other unsaturated organic compounds (such as fish oil) may generate heat and/or fire. Do not use this material with these compounds without following the disposal considerations in Section 13.

10.6 Hazardous Decomposition Products:
SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

INGESTION: No adverse effects expected with unused material.
INHALATION: Inhalation of excessive concentrations of dust may cause irritation of mucous membranes and upper respiratory tract.
EYE: Contact may cause mechanical irritation and possible injury.
SKIN: No adverse effects expected.
SENSITIZATION: No adverse effects expected
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None currently known.

Acute Toxicity Values:
Fullers Earth and Bentonite Clay: No toxicity data available

Irritation: Fullers Earth and Bentonite Clay may cause mechanical eye irritation with possible injury.

Corrosivity: This is not a corrosive product.

Sensitization: This product is not expected to cause sensitization

Repeat Dose Toxicity: No toxicity data available. Inhalation of excessive concentrations of any dust, including this material, may lead to lung injury. This product contains <1% respirable crystalline silica. Excessive inhalation of respirable crystalline silica may cause silicosis, a progressive, disabling and fatal disease of the lung. Symptoms may include cough, shortness of breath, wheezing and reduced pulmonary function.

Carcinogen Status: No toxicity data available. The substance does not meet the criteria for a carcinogen under Regulation (EC) No 1272/2008.

Germ Cell Mutagenicity: No specific data is available. This product is not expected to present a germ cell mutagenicity hazard.

Toxicity for Reproduction: No specific data is available. Not expected to affect reproduction or development.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: This is a naturally occurring mineral and is not expected to have any effects on the environment.

12.2 Persistence and Degradability: This product is not degradable but not hazardous to the environment.

12.3 Bioaccumulative Potential: Not bioaccumulative.

12.4 Mobility in Soil: Not applicable

12.5 Results of PBT and vPvB Assessment: Not required.

12.6 Other Adverse Effects: Not known

SECTION 13: DISPOSAL INFORMATION

13.1 Waste Treatment Methods
Unused material is suitable for disposal in sanitary landfill. Without proper precautions, spent bleaching clay used in
bleaching fats and edible oils or with other unsaturated organic compounds is known to spontaneously combust. Procedures for handling spent clay follow: Landfills: To suppress spontaneous combustion, heat can be dissipated by spreading out the clay and/or spraying with water. Cover spent clay with non-combustibles. Plant Use: When purging the filter cake of excess oil before cleaning the filter press, excessive blowing with air can cause spontaneous combustion. To eliminate this risk, either use nitrogen or limit blowing with air. When purging the filter cake with steam, it is recommended that you not follow the steam purging with air blowing.

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>41.1 UN Number</th>
<th>41.2 UN Proper Shipping Name</th>
<th>14.3 Transport Hazard Class(s)</th>
<th>14.4 Packing Group</th>
<th>14.5 Environmental Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT</td>
<td>Not regulated</td>
<td></td>
<td></td>
<td>Not applicable</td>
</tr>
<tr>
<td>EU ADR/RID</td>
<td>Not regulated</td>
<td></td>
<td></td>
<td>Not applicable</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated</td>
<td></td>
<td></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

14.6 Special Precautions for User:
None

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:
Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:
US TSCA: All of the components of this product are listed on the EPA TSCA Inventory or exempt from notification requirements.
EU EINECS: All of the components of this product are listed on the EINECS Inventory or exempt from notification requirements
JAPAN MITI: All of the components of this product are existing chemical substances as defined in the Chemical Substances Control Law.
AICS: All of the components of this product are listed on the AICS Inventory or exempt from notification requirements.
CANADIAN DSL: All of the components of this product are listed on the Canadian Domestic Substance List or exempt from notification requirements.

15.2 Chemical Safety Assessment:
Not required

SECTION 16: OTHER INFORMATION

SDS Revision History:
11/9/10: Converted US SDS to EU REACH SDS
04/18/11: Section 1.3
05/19/11: Section 8.1
07/21/11: Sections 2.1, 3 & 8.1
12/10/12: Section 11.1 and B-80 title
06/22/13: B80 title
11/11/14: Reviewed; No changes

GHS Phrases for Reference (See Section 2 and 3):
None

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):
None

The information in this data sheet is believed to be accurate. However, each purchaser should make its own test to determine the suitability of the product for its purposes. OIL-DRI CORPORATION OF AMERICA MAKES NO WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO THE PRODUCT and assumes no responsibility for any risk or liability arising from the use.
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