1. Identification

Product Name: 7B Soy Flour IP
Use of the Substance / Preparation: Food Ingredient

Contact Manufacturer:
Archer Daniels Midland Company
4666 Faries Parkway
Decatur, IL 62526, USA
Telephone Number: (+1) 217-424-5200

2. Hazard(s) identification

Emergency Overview
May form combustible dust concentrations in air (during processing and handling). Product dust may cause mild, mechanical irritation. Contains soy. May produce an allergic reaction.

OSHA Defined Hazard(s)  Combustible Dust
HPR Defined Hazard(s)  Combustible Dust

Signal Word: Warning
Hazard Statement(s): May form combustible dust concentrations in air (during processing and handling)

3. Composition/information on ingredients

Common Name  Soy Flour CAS# 68308-36-1 (North America) or CAS# 91081-83-3 (EU)

Non-hazardous Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>North American Substance Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybean flour, defatted</td>
<td>68308-36-1</td>
<td>99-100</td>
<td>None known</td>
</tr>
</tbody>
</table>

4. First-aid measures

**Description of first aid measures**
5. Fire-fighting measures

Flammable Properties
Fine dust dispersed in air may ignite. Risk of ignition followed by flame propagation or secondary explosions should be prevented by avoiding accumulation of dust, e.g. on floors and ledges. As with most organic solids, combustion is possible at elevated temperatures or by contact with an ignition source.

Extinguishing media
Suitable Extinguishing Media Water. Water spray. Dry chemical. Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Special hazards arising from the substance or mixture
Hazardous Combustion Products Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOx), Acrolein.
Specific Hazards Arising from the Chemical None known.
Sensitivity to mechanical impact No information available.
Sensitivity to static discharge Yes. (as dust).
Further information Dust explosibility class = St 1. Weak to moderately explosible.

Advice for fire-fighters
Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 0  Stability and Reactivity 0
Flammability 1  Physical hazard None known

6. Accidental release measures

Personal Precautions, Protective Equipment, and Emergency Procedures
Avoid dust formation. Use personal protective equipment. For personal protection see section 8.

Environmental Precautions
No special environmental precautions required. Prevent further leakage or spillage if safe to do so.

Methods and Materials for Containment and Cleaning Up
Sweep up and shovel into suitable containers for disposal. For disposal information see section 13.
7. Handling and storage

Handling
Ensure adequate ventilation. Avoid dust formation in confined areas. Fine dust dispersed in air may ignite. Refer to NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities".

Storage
To maintain product quality, do not store in heat or direct sunlight. Keep at temperatures below 25°C / 75°F.

8. Exposure controls/Personal protection

Exposure Limits
Where exposure limits have not been established for specific components of this material, please observe the OSHA and ACGIH established limits for particulates not otherwise classified (PNOC). OSHA PEL: [15 mg/m³ (total dust) 8-hr TWA], [5 mg/m³ (respirable) 8-hr TWA]. ACGIH TLV: [10 mg/m³ (inhalable) 8-hr TWA], [3 mg/m³ (respirable) 8-hr TWA].

Biological Limit Values
No biological limit values have been listed for the component(s) of this product.

Appropriate Engineering Controls
Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. However it is the duty of the user to verify this and follow given exposure limits at the workplace.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

Personal Protective Equipment
Eye/face Protection.
If exposed to airborne dust, appropriate safety glasses with side-shields or safety goggles are recommended. If airborne dust concentrations are excessive, wear goggles.

Skin and Body Protection
Protective clothing and gloves may be worn to reduce the potential of mechanical irritation.

Respiratory Protection
If exposed to airborne dust, use appropriate NIOSH approved (or equivalent) respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

9. Physical and chemical properties

Appearance
Off-white / Light brown

Physical State
Powder / Grits

Odor
No information available

Odor Threshold
Not applicable

pH
No information available

Flash Point
Not applicable (solid)

Autoignition Temperature
No information available

Boiling point
Not applicable (solid)

Melting/Freezing Point
Not applicable

Decomposition temperature
No information available

Oxidizing Properties
No information available

Water Solubility
Insoluble

Evaporation Rate
Not applicable (solid)

Vapor Pressure
Not applicable (solid)

Vapor Density
Not applicable

Specific Gravity / Relative Density
No information available

Partition Coefficient
No information available

(n-octanol/water)

Explosive Properties
1) minimum ignition energy: 0.10 J2) minimum ignition temperature: 550°C (1022°F)3) dust explosion class: St 1
10. Stability and reactivity

Stability  Stable under normal conditions.
Possibility of Hazardous Reactions  Hazardous polymerization does not occur.
Conditions to Avoid  Avoid dust formation. Heat, flames and sparks. Avoid conditions that generate dust.
Incompatible Materials  No materials to be especially mentioned.

11. Toxicological information

Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Based on available data, no evidence of acute toxicity.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Based on available data, no evidence of serious eye damage / irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Based on available data, the classification criteria are not met. May cause sensitization of susceptible persons.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td>Not classified. No evidence of toxicity.</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td>Not classified. No evidence of toxicity.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Based on available data, no known aspiration hazard.</td>
</tr>
</tbody>
</table>

Potential health effects

- **Eyes**: Dust may cause mechanical irritation to eyes resulting in redness or watering.
- **Skin**: Product dust may cause mild, mechanical irritation.
- **Inhalation**: Refer to section 8 of this sheet for exposure limits. Dust may cause irritation of respiratory tract.
- **Ingestion**: May produce an allergic reaction. Product may contain up to 10 ppm of SO₂ which may elicit sulfite sensitivity.

12. Ecological information

Ecotoxicity  Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in waste water treatment plants.

- **Persistence/Degradability**: Biodegradable.
- **Mobility**: Insoluble in water.
- **PBT and vPvB assessment**: No information available.
- **Other adverse effects**: Nothing specific known.

13. Disposal considerations

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

- **Waste Disposal Methods**: Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.
- **Contaminated Packaging**: Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

14. Transport information

**Domestic transport regulations (USA)**
15. Regulatory information

International Inventories
The components of this product are reported in the following inventories:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>ICL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybean flour, defatted</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ENCS</th>
<th>ISHL</th>
<th>CHINA</th>
<th>PICCS</th>
<th>KECL</th>
<th>Taiwan</th>
<th>Turkey</th>
<th>NZIoC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybean flour, defatted</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

USA

Federal Regulations

Ozone Depleting Substances:
No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

CERCLA/SARA 103-302
Sections 103-302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 103-302.

SARA 311/312 Hazardous Categorization
Refer to the OSHA hazard classification(s) provided in section 2 of this SDS.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63)
This product is not known to contain any HAPS.

State Regulations

California Proposition 65
This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would require a warning under the statute.

State Right-to-Know
Component Information.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
<th>Massachusetts</th>
<th>Minnesota</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybean flour, defatted</td>
<td>99-100</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Canada

(NPRI) Canadian National Pollutant Release Inventory
No known component is listed on NPRI.

16. Other information

Prepared By: ADM - Product Regulatory Affairs
Revision Date: 06-Dec-2018
Revision Number: 2
Reason for revision: This data sheet contains changes from the previous version in section(s) 15. This version replaces all previous versions.

Abbreviations and acronyms
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
A4 - Not classifiable as a human carcinogen
ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values
CAS - Chemical Abstract Service
Ceiling - Ceiling Limit Value: Concentrations that should never be exceeded at any given time (instantaneous)
CHINA - Chinese Inventory of Existing Chemical Substances (China)
CLP - Classification, Labelling and Packaging, Regulation (EC)1272/2008
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
Delisted - Substances Delisted from Report on Carcinogens
DNEL - Derived No Effect Level
DOT - U.S. Department of Transportation
DSL - Domestic Substance List (Canada)
EC - European Commission
EC No. - European Community number
EC50 - Half maximal effective concentration
EINECS - European Inventory of Existing Commercial Chemical Substances (EU)
ELINCS - European List of Notified Chemical Substances (EU)
ENCS - Existing and New Chemical Substances (Japan) / ISHL - Industrial Health and Safety Law (Japan)
EPCRA - Emergency Planning and Community Right-to-Know Act of 1986 (USA)
FOSFA - The Federation of Oils, Seeds and Fats Associations
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
Group 3 - Not Classifiable
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association Dangerous Goods Regulations
IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO - International Civil Aviation Organisation
ICL - In Commerce List (Canada)
IDLH - Immediately Dangerous to Life or Health
IMDG - International Maritime Dangerous Goods Code
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of sheet