1. PRODUCT AND COMPANY IDENTIFICATION:

   PRODUCT CODE     A0238  
   PRODUCT NAME     TONKA BEANS  
   SUPPLIER  
   Shanghai M & U International Trade Co., Ltd.  
   Rm 1717, No 598 North NuJiang Road  
   200333 Shanghai, China  
   +86-21-32515501 32515502  
   sales@mu-intel.com

FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

   Emergency Overview  

   OSHA Hazards  
   Harmful by ingestion  

   Target Organs  
   Liver, Kidney  

   GHS Classification  
   Acute toxicity, Oral (Category 4)

   GHS Label elements, including precautionary statements  
   Pictogram  
   Signal word Warning  

   Hazard statement(s)  
   H302 Harmful if swallowed  

   Precautionary statement(s)  
   None  

   HMIS Classification  
   Health hazard 1  
   Flammability 1  
   Physical hazards 1  

   NFPA Rating  

A0238 TONKA BEANS
Health hazard 1 
Fire 1 
Reactivity Hazard 0 

Potential Health Effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation
Skin Harmful if absorbed through skin. May cause skin irritation
Eyes May cause eye irritation
Ingestion Harmful if swallowed

3. COMPOSITION AND INFORMATION ON INGREDIENTS:
SYNONYM No data available
Formula No data available
Molecular Weight No data available
CAS-No No data available
8024-04-2 No data available

4. FIRST-AID GUIDE:
General advice 
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

If inhaled 
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
In case of skin contact 
Wash off with soap and plenty of water. Consult a physician

In case of eye contact 
Flush eye with water as a precaution

If swallowed 
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

5. FIRE-FIGHTING GUIDE:
Conditions of flammability 
Not flammable or combustible

Suitable extinguishing media 
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special protective equipment for firefighters
Wear self contained breathing apparatus for firefighting if necessary

**Hazardous combustion products**
Hazardous decomposition products formed under fire conditions. Nature of decomposition products not known

6. **ACCIDENTAL RELEASE GUIDE:**

**Personal precautions**
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust

**Environmental precautions**
Do not let product enter drains

**Methods and materials for containment and cleaning up**
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal

7. **HANDLING AND STORAGE:**

**Precautions for safe handling**
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed

**Conditions for safe storage**
Keep container tightly closed in a dry and well-ventilated place

8. **EXPOSURE AND PERSONAL PROTECTION:**

Contains no substances with occupational exposure limit values

**Personal protective equipment**

**Respiratory protection**
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

**Eye protection**
Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**
Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

| Appearance | Form | SOLID |
| Color | LIGHT BROWN TO YELLOWISH BROWN |

**Safety data**

- pH: no data available
- Melting point (°C): no data available
- Boiling point (°C): no data available
- Flash point (°F): Closed cup >200
- Ignition temperature: no data available
- Auto ignition temperature: no data available
- Lower explosion limit: no data available
- Upper explosion limit: no data available
- Vapor pressure (mm Hg @20 °C): no data available
- Density @25 °C: no data available
- Water solubility: INSOLUBLE
- Partition coefficient:
  - n-octanol / water: no data available
  - Relative vapor density: no data available
  - Odor: SWEET, WARM, COUMARIN-LIKE
  - Odor Threshold: no data available
  - Evaporation rate: no data available

### 10. STABILITY AND REACTIVITY:

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
No data available.

**Conditions to avoid**
No data available.
**Materials to avoid**
Strong oxidizing agents

**Hazardous decomposition products**
Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known

Other decomposition products - no data available

11. **TOXICOLOGICAL INFORMATION:**

**Acute toxicity**

**Oral LD50**
No data available

**Inhalation LC50**
No data available

**Dermal LD50**
No data available

**Other information on acute toxicity**
No data available

**Skin corrosion/irritation**
No data available

**Serious eye damage/eye irritation**
No data available

**Respiratory or skin sensitization**
No data available

**Germ cell mutagenicity**
No data available

**Carcinogenicity**

**IARC**
No components of this product present at levels greater than or equal to 0.1% is identified as probable. Possible or confirmed human carcinogen by IARC

**ACGIH**
No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

**NTP**
No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA**
No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**
No data available.

**Teratogenicity**
No data available.

**Specific target organ toxicity - single exposure (Globally Harmonized System)**
No data available.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**
No data available.

**Aspiration hazard**
No data available.

**Potential health effects**
- **Inhalation**: May be harmful if inhaled. May cause respiratory tract irritation.
- **Ingestion**: Harmful if swallowed.
- **Skin**: Harmful if absorbed through skin. May cause skin irritation.
- **Eyes**: May cause eye irritation.

**Signs and Symptoms of Exposure**
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects**
No data available.

**Additional Information**
RTECS: Not available.

**12. ECOLOGICAL INFORMATION:**

**Toxicity**
No data available.

**Persistence and degradability**
No data available.

**Bioaccumulative potential**
No data available

**Mobility in soil**
No data available

**PBT and vPvB assessment**
No data available

**Other adverse effects**
No data available

13. **DISPOSAL RECOMMENDATIONS:**

**Product**
Offer surplus and non-recyclable solutions to a licensed disposal company

**Contaminated packaging**
Dispose of as unused product

14. **TRANSPORTATION INFORMATION:**

**DOT (US)**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods

15. **REGULATORY INFORMATION:**

**OSHA Hazards**
Harmful by ingestion

**SARA 302 Components**
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA 313 Components**
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

**SARA 311/312 Hazards**
Acute Health Hazard

**Massachusetts Right to Know Components**
No components are subject to the Massachusetts Right to Know Act
**Pennsylvania Right to Know Components**
Tonka bean absolute  
CAS-No 8046-22-8

**New Jersey Right to Know Components**
Tonka bean absolute  
CAS-No 8046-22-8

**California Prop 65 Components**
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

16. OTHER INFORMATION:

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U’s control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the MSDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the MSDS. The user should review these regulations to ensure full compliance.