

# MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE

PRODUCT NAME

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

NAT. AMMONIUM GLYCRHIZATE

### FOR EMERGENCIES CALL CHEMTREC: 80

800-424-9300 (24-HOURS)

### 2. HAZARD IDENTIFICATION:

<b>Emergency Overvie</b>	W	
OSHA Hazards		
Target Organ Effect		
<b>Target Organs</b>		
Adrenal cortex.		
<b>GHS</b> Classification		
Not a dangerous subs	stance according to GHS.	
HMIS Classification	1	
Health hazard	1	
Flammability	1	
Physical hazards	1	
NFPA Rating		
Health hazard	1	
Fire	1	
Reactivity Hazard	0	
Potential Health Eff	fects	
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.	
Skin	May be harmful if absorbed through skin. May cause skin irritation.	
Eyes	May cause eye irritation.	
Ingestion	May be harmful if swallowed.	

N0160

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Synonym	Glycyrrhizic Acid Ammonioum Salt, Natural		
	Glycyrrhizin Amoniated, Natural		
	Monoammonium Glycyrrhizin, Natural		
Formula	C42 H61 O16 NH4		

Molecular Weight 839.99 g/mol

CAS-No	EC-No	Index-No.	Concentration
53956-04-0	258-887-7		

### 4. FIRST-AID GUIDE:

### **General advice**

Move out of dangerous area. **If inhaled** If breathed in, move person into fresh air. If not breathing, give artificial respiration. **In case of skin contact** Wash off with soap and plenty of water. **In case of eye contact** Flush eyes with water as a precaution. **If swallowed** Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5. FIRE-FIGHTING GUIDE:

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 fire fighting if necessary.
Hazardous combustion products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

### 6. ACCIDENTAL RELEASE GUIDE:

Personal precautions
Avoid dust formation. Avoid breathing vapors, mist or gas.
Environmental precautions
Do not let product enter drains.
Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE:

### **Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature:  $2 - 8 \degree C$ 

### 8. EXPOSURE AND PERSONAL PROTECTION:

Contains no substances with occupational exposure limit values.

### **Personal protective equipment:**

### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. 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

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Hygiene measures**

General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

#### Appearance

Form Color SOLID LIGHT BROWN TO TAN

#### Safety data

Melting point (°C) Boiling point (°C) Flash point (°F) Closed cup Vapor pressure (mmHg@20°C) Density @25 °C Water solubility Odor 215 N/A >200 no data available no data available SOLUBLE LICORICE

## **10. STABILITY AND REACTIVITY:**

#### Chemical stability

Stable under recommended storage conditions.

#### Materials to avoid

Strong oxidizing agents.

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides , nitrogen oxides (NOx)

## **11. TOXICOLOGICAL INFORMATION:**

## Acute toxicity

Oral LD50

LD50 Oral - rat - > 10,000 mg/kg

### Germ cell mutagenicity

Genotoxicity in vivo - rat - Oral

Dominant lethal test

### Carcinogenicity

### IARC:

No component 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 component 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 component 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 component 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**

Reproductive toxicity - rat - Oral

Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).

#### Teratogenicity

Developmental Toxicity - rat - Oral

Specific Developmental Abnormalities: Musculoskeletal system.

### Potential health effects

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

### Signs and Symptoms of Exposure

Overexposure can cause sodium retention and potassium loss leading to hypertension, water retention, and electrolyte imbalance. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

#### **Additional Information**

RTECS: LZ6500000

### **12. DISPOSAL RECOMMENDATIONS:**

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. **Contaminated packaging** 

Dispose of as unused product.

## **13. TRANSPORTATION INFORMATION:**

DOT (US) Not dangerous goods. IMDG Not dangerous goods. IATA Not dangerous goods.

## **14. REGULATORY INFORMATION:**

## **OSHA Hazards**

Target Organ Effect

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

Chronic Health Hazard

## Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

## Pennsylvania Right To Know Components

Ammonium glycyrrhizate	CAS-No. 53956-04-0	Revision Date		
Now Jorson Dight To Know Components				

## New Jersey Right To Know Components

Ammonium glycyrrhizate CAS-No. 53956-04-0

# 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.

**Revision** Date

## **15. 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.