

# SAFETY DATA SHEET

### Section 1 - Identification of Substance or Mixture and Company

Product identify:

Product name: Glycyrrhizic acid ammonium salt Synonyms: Monoammonium glycyrrhizinate

Catalog number: PI-20404

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company identification: PI Chemicals Ltd.

633 Eshan Road,

Pudong New Area, Shanghai China, 201203

Telephone number: +86-21-58953700 Fax number: +86-21-58953701 E-mail address: info@pipharm.com

Emergency telephone number

*Emergency number:* +86-21-58953706

## Section 2 - Hazards Identification

Classification of the substance or mixture:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

HMIS classification:

Health hazard: 0

Chronic Health Hazard: \*

Flammability: 0 Physical hazards: 0

NFPA rating:

Health hazard: 0

Fire: 0

Reactivity hazard: 0



# Section 3: Composition & Information on Ingredients

*Molecular formula:*  $C_{42}H_{62}O_{16} \cdot NH_3$ 

Molecular weight: 839.96

Component		Concentration
CAS Number:	53956-04-0	98%
EC Number:	258-887-7	

#### Section 4 - First Aid Measures

Eye: Flush eyes with plenty of water for at least 15 minutes. Get medical aid if symptoms appear.

Skin: Wash skin with plenty of water at least 15 minutes while removing contaminated clothing and

shoes. Get medical aid if irritation develops and persists.

Ingestion: Wash mouth out with water. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give

oxygen. If not breathing, give artificial respiration. Get medical aid.

#### Section 5 – Fire-Fighting Measures

Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides.

Advice for firefighters: Wear a self-contained breathing apparatus for fire fighting if necessary.

#### Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use proper personal protective equipment as indicated in Section 8.

Environmental precautions: Prevent further spillage or leakage when safe and capable

Methods and materials for containment and cleaning up:

Vacuum or sweep up material and keep in a suitable closed container for disposal. Do not flush with water.

# Section 7 - Handling and Storage

Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors and spray mist.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry place. Keep tightly closed. Hygroscopic. Store under inert gas.

#### Section 8 - Exposure Controls/Personal Protection



#### Control parameters:

Contains no materials with occupational exposure limits.

Exposure controls:

Ensure well ventilation, good industrial hygiene and safety practice.

Personal protective equipment

*Eye/Face protection:* 

Wear appropriate protective eyeglasses under the standards such as EN166(EU) or type ABEK(EN14387).

Skin/Body protection:

Wear appropriate protective gloves which have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it to prevent skin exposure. Dispose of contaminated gloves in accordance with applicable laws. Wash and dry hands.

Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection:

Use an approved respirator and components under appropriate government standards such as NIOSH(US) or CEN(EU) if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9- Physical and Chemical Properties

Physical state:

Color:

White

Odour:

Weak odor

Melting point/freezing point:

209 °C

Initial boiling point and boiling range: No data available
 Flash point: No data available
 Evaporation rate: No data available
 Flammability(solid, gas): No data available

*Upper/lower flammability* 

No data available or explosive limits: Vapour pressure: No data available Vapour density: No data available No data available Relative density: No data available Solubility: Partition coefficient: n-octanol/water: No data available No data available Auto-ignition temperature: Decomposition temperature: No data available Viscosity: No data available

## Section 10-Stability and Reactivity

Reactivity: No data available



Chemical stability: Stable under recommended temperatures and pressures.

Possibility of hazardous reactions: No data available Conditions to avoid: No data available

Incompatible materials: Strong oxidizing agents

Hazard Decomposition products: Carbon oxides, nitrogen oxides.

#### Section 11 - Toxicological Information

Acute toxicity:

Component: Glycyrrhizic acid ammonium salt

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

Skin corrosion/irritation:

Serious eye damage/eye irritation:

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

Genotoxicity in vivo - rat - Oral

Dominant lethal test *Carcinogenicity:* 

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

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).

Developmental Toxicity - rat - Oral

Specific Developmental Abnormalities: Musculoskeletal system.

Specific target organ toxicity (Globally Harmonized System)-single exposure: No data available Specific target organ toxicity (Globally Harmonized System)-repeated exposure: No data available

Aspiration hazard: No data available
Additional information: RTECS#: LZ6500000

# Section 12 – Ecological Information

Toxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Results of PBT and vPvB assessment: No data available
Other adverse effects: No data available

#### Section 13 - Disposal Consideration

Waste treatment methods

Product: Dispose of in accordance with federal, state and local environmental regulations



Contaminated packaging: Dispose of as unused product

## Section 14 - Transport Information

**IATA** 

Not dangerous goods

IMDG

Not dangerous goods

RID/ADR

Not dangerous goods

DOT(US)

Not dangerous goods

## Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

No data available

Chemical safety assessment: No data available

## Section 16 - Other Information

SDS creation date: Mar 18, 2013 Update: Dec 11, 2013

#### Disclaimer:

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