

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Glycerrhizic Acid (Glycyrrhizin)

Commercial Name Not available.

Product Use Manufacture of substances

Restrictions On Use Not available

Product Code 30-2702

Company PCCA In case of emergency contact:

9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760

Section 2: Hazard(s) Identification

OSHA Haz Com: Emergency Overview OSHA Hazards No know OSHA Hazards. GHS Classification Not a dangerous substance or mixture according to GHS. GHS Label elements, including precautionary statements Signal

word None Hazard statement(s) None Precautionary statement(s) None HMIS Classification Health hazard 1

CHEMTREC (24hr) 1-800-424-9300

Flammability 1 Physical hazards 1 NFPA Rating Health hazard 1 Fire 1 Reactivity Hazard 0

Signal Word WARNING

Hazard Statement(s) Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes eye irritation.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Keep out of reach of children. Read label before use.

Response Wash thoroughly after handling. Wear protective gloves, protective clothing, eye and face protection. If

on skin, wash with plenty of soap and water. Rinse mouth. If eye irritation persists, get medical

attention.

Storage Not available

Disposal Dispose of contents/container to an approved waste disposal plant.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Glycyrrhizin
% By Weight Not available.
CAS# 1405-86-3
Molecular Weight 822.94 g/mol
Chemical Formula C42H62O16

Synonym(s) N/A

Mixtures

NameCAS#% by WeightTLV/PELLC50/LD50Glycyrrhizin1405-86-3Not availableMouse LD50 (oral)

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Section 4: First-Aid Measures

Inhalation If breathed in, move person into fresh air. If not breathing give artificial respiration.

Skin Contact Wash off with soap and plenty of water.

Eye Contact Flush eyes with water as precaution.

Ingestion Never give anything by mouth to an unconsious person. Rinse mouth with water.

Symptoms/Effects

Acute The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in

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section 11

Delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in

section 11

Immediate Medical Attention

Not available.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Firefighters Special Equipment and Precautions

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

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

Section 7: Handling and Storage

Precautions for safe handling: Normal measures for preventive fire protection. Conditions for safe storage: Keep container tightly closed in a dry and well -ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8: Exposure Controls/Personal Protection

Exposure Limits
Engineering Controls
Personal Protection

Contains no substances with occupational exposure limit values.

Not available.

Respiratory protection: Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) 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: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin and body protection: Impervious clothing, 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.

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Section 9: Physical and Chemical Properties

Solid white to off-white **Appearance**

Characteristic Odor **Odor Threshold** Not available

Not available Not available **Melting Point** pН **Freezing Point** Not available **Vapor Pressure** Not available Not available Not available **Boiling Point/Range Vapor Density** Not available Not available **Decomposition temperature Viscosity** 2.80 **Evaporation Rate** Not available

Partition Coefficient:

n-octanol/water

Closed cup>200 Not available **Flash Point** Autoignition temperature

Flammability Not available Flammability or Explosive Limits:

> Not available Lower

Not available Upper

FREELY SOLUBLE IN HOT WATER Solubility(ies)

Other Not available.

Section 10: Stability and Reactivity

Not available Reactivity

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

Not available **Hazardous Polymerization** Not available **Conditions to Avoid**

Strong oxidizing agents **Incompatible Materials**

Hazardous Decomposition Products Not available.

Section 11: Toxicological Information

Not available **RTECS**

Acute Toxicity

Oral LD50 -no data available Inhalation LC50 -no data available Dermal LD50 -no data available

Skin Corrosion/Irritation

Not available

Serious Eye Damage/Irritation

Not available

Respiratory or Skin Sensitization

Not available

Germ Cell Mutagenicity

Not available

Carcinogenicity

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.No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potentialcarcinogen by ACGIH. 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. 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

Not available

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Routes of Entry

Not available

Symptoms Related to Exposure

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

Potential Health Effects

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

Target Organ(s) Not available

Section 12: Ecological Information

Ecotoxicity

Not available.

Persistance and Degradability

Not available

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Adverse Effects

Not available

Section 13: Disposal Considerations

Waste Disposal

Offer surplus and non -recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Disposal of Container

Dispose of as unused product

Other Considerations

Not available.

Section 14: Transport Information

DOT Classification

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information

Regulations

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 No SARA hazards Massachusetts Right To Know Component No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Component No components are subject to the Pennsylvania Right to Know Act. New Jersey Right To Know Component No components are subject to the New Jersey Right to Know Act. California Prop. 65 Components This product does not contain any chemicals known to State of California to cause caner, birth defects, or any other reproductive harm.

Other

Not available.

Section 16: Other Information

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