# spectrum®



# SAFETY DATA SHEET

Preparation Date: 11/06/2019	Revision date 11/06/2019	Revision Number: G1
	1. IDENTIFICATION	
Product identifier		
Product code:	G1403	
Product Name:	GLYCYRRHIZIC ACID MONOAMMONIUM SA	LT, TRIHYDRATE
Other means of identification		
Synonyms:	Ammoniated glycyrrhizin Ammonium glycyrrhizate Glycyrram Monoammonium glycyrrhizate alpha-D-Glucopyranosiduronic acid, (3-beta,20-beta)-20-carboxy-11-oxo-30-norolea nuronosyl-, ammoniate	an-12-en-3-yl2-O-beta-D-glucopyra
CAS #: RTECS #	53956-04-0 LZ6500000	
CI#:	Not available	
Recommended use of the chem	ical and restrictions on use	
Recommended use: Uses advised against	No information available. No information available	
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000	
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Tom Tyner (USA - West Coast) Ibad Tirmiz (USA - East Coast)	

# 2. HAZARDS IDENTIFICATION

# **Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

# Label elements

# Not classified

# Hazards not otherwise classified (HNOC) Not Applicable

Other hazards

Not available

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component		CAS No	Weight-%			
		53956-04-0	100			
Trihydrate		1				
4. FIRST AID MEASURES						
First aid measures						
General Advice:	have	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.				
Skin Contact:		off immediately with soap and plenty of wa Get medical attention if irritation develops	ater removing all contaminated clothing and s. Consult a physician if necessary.			
Eye Contact:		eyes with water for 15 minutes. Get medic t, call a physician.	al attention if irritation occurs. If symptoms			
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.					
Ingestion:		t induce vomiting without medical advice. I scious person. Consult a physician if nece				
Most important symptoms and eff	ects, bot	h acute and delayed				
Symptoms	Health injuries are not known or expected under normal use					
Indication of any immediate medic	cal attent	ion and special treatment needed				
Notes to Physician:	Treat symptomatically.					
Protection of first-aiders First-Aid Providers: Avoid exposure contaminated clothing and equipmer	to blood o nt as bio-h	or body fluids. Wear gloves and other neo nazardous waste.	essary protective clothing. Dispose of			
		5. FIRE-FIGHTING MEASURES				
Extinguishing Media Suitable Extinguishing Media:		Carbon dioxide (CC foam.	2). Dry chemical. Water spray mist or			
Unsuitable Extinguishing Media: No information available.						
Specific hazards arising fro	m the c	<u>hemical</u>				
Hazardous combustion produc	cts	Carbon monoxide.	Carbon dioxide (CO2). Nitrogen oxides			
Product code: G1403	Рг	oduct name: GLYCYRRHIZIC ACID	Page 2/11			

MONOAMMONIUM SALT, TRIHYDRATE **Specific hazards** 

(NOx).

May be combustible at high temperatures.

# Special Protective Actions for Firefighters

**Specific Methods:** 

Special Protective Equipment for Firefighters:

No information available

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.
Methods and material for contai	nment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

# **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

# Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

# Conditions for safe storage, including any incompatibilities

# **Technical Measures/Storage Conditions:**

Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

# **Incompatible Materials:**

Oxidizing agents

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

**United States** 

Product code: G1403

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Glycyrrhizic Acid Monoammonium Salt, Trihydrate	53956-04-0	None	None	None	None

# Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Glycyrrhizic Acid Monoammonium Salt, Trihydrate	53956-04-0	None	None	None	None

# Australia and Mexico

Component	CAS No	Australia	Mexico
Glycyrrhizic Acid Monoammonium Salt, Trihydrate	53956-04-0	None	None

# Appropriate engineering controls

# Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

# Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

Eye protection:	Safety glasses with side-shields. or Goggles
Skin and body protection:	Chemical resistant apron Gloves Long sleeved clothing
Respiratory protection:	Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	<b>Appearance:</b>	Co
Solid	Powder.	W
<b>Odor:</b>	<b>Taste</b>	Fo
No information available.	No information available.	C4
Molecular/Formula weight (alt	nolo): Elammability (solid_gas)	С

Molecular/Formula weight (g/mole): Flammability (solid, gas)894.03no data available

**Color:** White to Off-White.

Formula C42H65NO16.3H2O

Flashpoint (°C/°F): No information available

Product code: G1403

Flash Point Tested according to: Not available

**Upper Explosion Limit (%):** No information available

**Boiling point/range(°C/°F):** No information available

**Specific gravity:** No information available

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

Miscibility: No information available Autoignition Temperature (°C/°F): No information available

Melting point/range(°C/°F): 209°C/408.2°F

Bulk density: No information available

**pH** No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

**Solubility:** No information available

**10. STABILITY AND REACTIVITY** 

Lower Explosion Limit (%): No information available

**Decomposition temperature(°C/°F):** No information available

**Density (g/cm3):** No information available

Vapor pressure @ 20°C (kPa): No information available

**VOC content (g/L):** No information available

Viscosity: No information available

#### Reactivity No information available

**Chemical stability** 

<u> </u>	
Stability:	Hygroscopic. Stable under recommended storage conditions.
Possibility of Hazardous Reactions	: Hazardous polymerization does not occur
Conditions to avoid:	Heat. Exposure to moist air. Ignition sources. Incompatible materials.
Incompatible Materials:	Oxidizing agents
Hazardous decomposition products:	Carbon oxides. Nitrogen oxides (NOx).

Other Information Corrosivity:

No information available

# Special Remarks on Corrosivity: No information available

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

#### Principal Routes of Exposure: Skin. Eyes. Ingestion. Inhalation.

# Acute Toxicity

# **Component Information**

Product code: G1403

Glycyrrhizic Acid Monoammonium Salt, Trihydrate

CAS No 53956-04-0 LD50/oral/rat = > 10 g/kg Oral LD50 Rat LD50/oral/mouse = 9818 mg/kg Oral LD50 Mouse **LD50/dermal/rabbit** = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available **LC50/inhalation/mouse =** No information available Other LD50 or LC50information = No information available

# **Product Information**

LD50/oral/rat = Value - Acute Toxicity = >10000 mg/kg

LD50/oral/mouse = Value - Acute Tox = 9818 mg/kg

LD50/dermal/rabbit Value - Acute Toxicity = No information available

LD50/dermal/rat **VALUE - Acute Tox =** No information available

LC50/inhalation/rat **VALUE-Vapor** = No information available VALUE-Gas = No information available **VALUE-Dust/Mist** = No information available

LC50/Inhalation/mouse **VALUE-Vapor** = No information available **VALUE - Gas =** No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	May cause skin irritation.				
Eye Contact:	May cause eye irritation.				
Inhalation	May cause irritation of respiratory tract.				
Ingestion	ngestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.				
Aspiration hazard	No information available.				
Delayed and immediate effects a	as well as chronic effects from short and long-term exposure				
Chronic Toxicity	No information available.				
Sensitization:	No information available.				
Mutagenic Effects:	No information available				
Product code: G1403	Product name: GLYCYRRHIZIC ACID	Page 6			

MONOAMMONIUM SALT, TRIHYDRATE

#### Carcinogenic effects:

Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Glycyrrhizic Acid Monoammonium Salt, Trihydrate	53956-04-0	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available

# Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

# **12. ECOLOGICAL INFORMATION**

# Ecotoxicity

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available No information available.

# **13. DISPOSAL CONSIDERATIONS**

# **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

# Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Glycyrrhizic Acid	53956-04-0	None	None	None	None

Product code: G1403

Monoammonium Salt,			
Trihydrate			

# **14. TRANSPORT INFORMATION**

#### DOT

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Class	No information available
Packing group:	No information available
<b>Emergency Response Guide</b>	No information available
Number	
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available
Description:	No information available

Not Regulated

Not regulated

Not Regulated

Not Regulated

Not Regulated

No information available

# TDG (Canada)

UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group: Marine Pollutant Description:

#### ADR

UN Number Proper Shipping Name: Transport hazard class(es) Packing group Subsidiary Risk:

# IMDG

UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant

#### RID

UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group

# ICAO (air)

UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group:

Product code: G1403

ΙΑΤΑ	
UN Number	Not Regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available
Precautionary Statements -	No information available
Response	
Special Provisions	No information available
Transport hazard class(es) Subsidiary Risk: Packing group Precautionary Statements - Response	No information available No information available No information available No information available

# **15. REGULATORY INFORMATION**

# International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Glycyrrhizic Acid Monoammonium Salt, Trihydrate	53956-04-0	PresentACTIV E	Present KE-18077	Present	Present (9)-398	Present	Present	Present 258-887-7

# U.S. Regulations

Glycyrrhizic Acid Monoammonium Salt, Trihydrate

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1408

FDA - 21 CFR - Total Food Additives 184.1408

#### - List Sourced from EAFUS

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
					Reproductive
				Toxicity	Toxicity:
Glycyrrhizic Acid Monoammonium Salt, Trihydrate	53956-04-0	Not Listed	Not Listed	Not Listed	Not Listed

# CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Glycyrrhizic Acid Monoammonium Salt, Trihydrate	53956-04-0	None	None	None	None	None

# U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Glycyrrhizic Acid Monoammonium Salt, Trihydrate	53956-04-0	Not Applicable	Not Applicable

Product code: G1403

# Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification	Not a dangerous product according to HPR classification criteria.
Information:	- · · ·

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Glycyrrhizic Acid Monoammonium	53956-04-0	Present	Not Listed
Salt, Trihydrate			

Component	CAS No	CEPA Schedule I - Toxic Substances
Glycyrrhizic Acid Monoammonium Salt, Trihydrate	53956-04-0	Not listed
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Glycyrrhizic Acid Monoammonium Salt, Trihydrate	53956-04-0	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Glycyrrhizic Acid Monoammonium Salt, Trihydrate	53956-04-0	

# EU - CLP (1272/2008)

# R-phrase(s)

not determined (not applicable)

#### S -phrase(s)

none

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Glycyrrhizic Acid Monoammonium Salt, Trihydrate	53956-04-0		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

#### Indication of danger: None

# **16. OTHER INFORMATION**

Preparation Date:	11/06/2019
Revision date	11/06/2019
Prepared by:	Sonia Owen

Product code: G1403

#### **Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable. Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

# **End of Safety Data Sheet**