



SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier 18 beta Glycyrrhetic Acid

Other means of identification
Chemical name (3beta,20beta)-3-Hydroxy-11-oxo-olean-12-en-29-oic acid; Glycyrrhetic acid; 18beta-Glycyrrhetic acid; 3-Glycyrrhetic acid; 3-beta-Hydroxy-11-oxoolean-12-en-30-oic acid; Biosone; 3beta-Hydroxy-11-oxoolean-12-en-30-oic acid

Synonym(s) Glycyrrhetin, Enoxolone

Recommended use Industrial, skin conditioning, soothing

Company Information
Company name McKinley Resources
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2. HAZARD(S) IDENTIFICATION

Physical hazards Not a hazardous substance or mixture

Health hazards Not a hazardous substance or mixture

OSHA hazard(s) Not a hazardous substance or mixture

Label elements
Hazard symbol Not a hazardous substance or mixture
Signal word Not a hazardous substance or mixture
Hazard statement Not a hazardous substance or mixture
Precautionary statement
Prevention Not a hazardous substance or mixture
Response Not a hazardous substance or mixture
Storage Not a hazardous substance or mixture
Disposal Not a hazardous substance or mixture

Hazard(s) not otherwise classified (HNOC) Not classified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Non-hazardous components

Chemical Name	Common name and synonyms	CAS Number	%
18 beta glycyrrhetic acid	Enoxolone	471-53-4	100

4. FIRST-AID MEASURES

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops or

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Eye contact	persists. Rinse with water. Get medical attention if irritation develops or persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	Not available
Indication of immediate medical attention and special treatment needed	Physicians should be symptomatic and supportive.
General information	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray, dry chemical, carbon dioxide, or foam as appropriate for surrounding fire and materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Carbon oxides
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire-fighting equipment/instructions	As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.
Methods and materials for containment and cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see Section 13 of the SDS. Wash spill site.

7. HANDLING AND STORAGE

Precautions for safe handling	As a general rule, when handling material, avoid all contact and inhalation of dust, mists and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly.
Conditions for safe storage, including any incompatibilities	Store in tight container. This material should be handled and stored per label instructions to ensure product integrity.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines	No exposure standards allocated.
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Appropriate engineering controls	Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Safety glasses with side shields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.
Skin protection	
Hand protection	Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic non-latex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.
Other	For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.
Respiratory protection	Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134).
Thermal hazards	Not available.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to almost white crystalline powder
Physical state	Solid
Form	Powder
Odor	Almost odorless
Odor threshold	Not available
pH	Not available
Melting point/freezing point	550 – 567°F (288 – 297 °C)
Initial boiling point and boiling	Not available
Flash point	Not available
Evaporation point	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit–lower (%)	Not available
Flammability limit-upper (%)	Not available
Explosive limit – lower (%)	Not available
Explosive limit – upper (%)	Not available
Vapor pressure	Not available
Vapor density	Not available

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Relative density	Not available
Solubility in water	Practically insoluble in water
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Chemical family	Glycoside
Molecular formula	C30H46O4
Molecular weight	470.69
Solubility (other)	Soluble ethanol, sparingly soluble in methylene chloride

10. STABILITY AND REACTIVITY

Reactivity	No reactivity hazards known
Chemical stability	Material is stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use
Conditions to avoid	None known
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Other decomposition products – Not available. In the event of fire, see section 5.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion	Due to lack of data, the classification is not possible	
Inhalation	Due to lack of data, the classification is not possible	
Skin contact	Due to lack of data, the classification is not possible	
Eye contact	Due to lack of data, the classification is not possible	
Symptoms related to the physical, chemical and toxicological characteristics	Not available	
Acute toxicity	Based on available data, the classification criteria are not met.	
Product	Species	Test results
18 beta glycyrrhetic acid (CAS 471-53-4)	No data available	
Skin corrosion/irritation	Due to lack of data, the classification is not possible	
Serious eye damage/eye irritation	Due to lack of data, the classification is not possible	
Respiratory sensitization	Due to lack of data, the classification is not possible	
Skin sensitization	Due to lack of data, the classification is not possible	
Germ cell mutagenicity		
Mutagenicity	Due to lack of data, the classification is not possible	
Carcinogenicity	Based on available data, the classification criteria are not met. This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.	
Reproductive toxicity	Due to lack of data, the classification is not possible	
Reproductivity	Due to lack of data, the classification is not possible	
Specific target organ toxicity –	Due to lack of data, the classification is not possible	

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single exposure
 Specific target organ toxicity – repeated exposure Due to lack of data, the classification is not possible
 Aspiration hazard Due to lack of data, the classification is not possible

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

Disposal instructions This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
 Local disposal regulations Not available
 Hazardous waste code Not regulated
 Waste from residues / unused products Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
 Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT Not regulated as a hazardous material by DOT.
 IATA Not regulated as a dangerous good.
 IMDG Not regulated as a dangerous good.
 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

15. REGULATORY INFORMATION

US federal regulations
 Superfund Amendments and Reauthorization Act of 1986 (SARA)
 Hazard categories Immediate Hazard – No
 Delayed Hazard – No
 Fire Hazard – No
 Pressure Hazard – No
 Reactivity Hazard – No
 SARA 302 Extremely hazardous substances No
 SARA 311/312 Hazardous chemical No
 US State regulations This product does not contain a chemical known to the State of California to

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cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

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Further information disclaimer

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