



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Product Identifier

Parameter	Details
Product Name	Oakmoss Green Absolute
Alternative Name	Oakmoss Absolute Green Grade
Botanical Source	<i>Evernia prunastri</i> (L.) Ach.
INCI Name	Evernia Prunastri Extract
Alternative INCI Description	Evernia Prunastri (Oakmoss) Extract
CAS Number	90028-68-5
EC Number	289-861-3
FEMA Number	2795
Plant Material	Lichen
Extraction Method	Solvent extraction and absolute preparation
Product Type	Natural Complex Substance / Botanical Absolute
Physical Form	Viscous liquid, paste or soft resinous mass

The designation “Green” refers to the characteristic green to olive-brown appearance and mossy olfactive profile. It does not confirm that the product is a purified low-atranol grade.

1.2 Relevant Identified Uses

- Fine-fragrance formulation
- Perfumery accords
- Soap and detergent fragrance
- Home-fragrance formulation
- Incense and aromatic preparations
- Professional olfactive evaluation
- Research and product development

1.3 Uses Advised Against

- Internal consumption
- Direct undiluted application to skin
- Use by children
- Use in finished consumer products without safety assessment



- Use in IFRA-compliant formulations without analytical confirmation
- Use in EU cosmetics without regulatory evaluation of atranol and chloroatranol

1.4 Supplier Details

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SECTION 2: HAZARD IDENTIFICATION

2.1 Classification According to Regulation (EC) No. 1272/2008

The following classification is representative for a traditional concentrated oakmoss absolute. The definitive classification must be confirmed from the actual batch composition.

Hazard Class	Category	Hazard Statement
Skin Sensitisation	Category 1	H317
Eye Irritation	Category 2	H319
Hazardous to the Aquatic Environment, Chronic	Category 2	H411

2.2 Label Elements

Signal Word

WARNING

Hazard Statements

- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H411: Toxic to aquatic life with long-lasting effects.

Precautionary Statements

- P261: Avoid breathing vapours, mist or fumes.
- P264: Wash hands and exposed skin thoroughly after handling.
- P272: Contaminated work clothing should not be allowed out of the workplace.



- P273: Avoid release to the environment.
- P280: Wear protective gloves and eye protection.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P333+P313: If skin irritation or rash occurs: Get medical advice.
- P337+P313: If eye irritation persists: Get medical advice.
- P391: Collect spillage.
- P501: Dispose of contents and container in accordance with applicable regulations.

2.3 Other Hazards

- Concentrated oakmoss extract is a recognised skin-sensitisation concern.
- Traditional grades may contain atranol and chloroatranol.
- Repeated or prolonged contact may cause allergic contact dermatitis.
- The material may stain skin, clothing and porous surfaces.
- Heated material may release irritating vapours.
- The product has not been identified as PBT or vPvB on the basis of available representative information.
- Endocrine-disrupting properties have not been established for the mixture.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance or Mixture

Natural complex botanical extract.

Component	CAS Number	EC Number	Representative Concentration
Evernia Prunastri Extract	90028-68-5	289-861-3	Up to 100%

3.2 Representative Natural Constituents

Oakmoss absolute may contain:

- Lichen acids
- Depsides and depsidones
- Evernic-acid derivatives
- Resinous and phenolic constituents
- Atranol
- Chloroatranol
- Dehydroabietic acid



- Naturally occurring fragrance allergens
- Residual extraction solvent at controlled trace levels

The exact composition varies according to botanical origin, extraction, purification and batch.

Important: The green colour of the material does not establish compliance with the IFRA Oakmoss Extract Standard. IFRA maintains a specific restriction and specification for oakmoss extract.

SECTION 4: FIRST-AID MEASURES

4.1 Description of First-Aid Measures

Inhalation

- Move the affected person to fresh air.
- Keep at rest in a position comfortable for breathing.
- Seek medical advice if coughing, dizziness, respiratory irritation or discomfort persists.

Skin Contact

- Remove contaminated clothing and footwear.
- Wash affected skin thoroughly with soap and water.
- Do not use organic solvents to clean the skin.
- Seek medical advice if redness, itching, irritation or rash develops.
- Wash contaminated clothing before reuse.

Eye Contact

- Rinse cautiously with clean water for at least 15 minutes.
- Remove contact lenses where present and easy to do.
- Continue rinsing while holding the eyelids open.
- Obtain medical attention if irritation persists.

Ingestion

- Rinse the mouth with water.
- Do not induce vomiting.
- Never give anything by mouth to an unconscious person.
- Contact a physician or poison centre if symptoms occur.



4.2 Most Important Symptoms and Effects

Possible symptoms include:

- Skin redness
- Itching
- Rash
- Allergic contact dermatitis
- Eye redness
- Tearing
- Burning or irritation
- Nausea or gastrointestinal discomfort following ingestion

4.3 Indication of Immediate Medical Attention

Treat symptomatically.

Persons who develop skin sensitisation should avoid further exposure.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use:

- Alcohol-resistant foam
- Carbon dioxide
- Dry chemical powder
- Water fog

5.2 Unsuitable Extinguishing Media

Do not use a direct high-pressure water jet, as it may spread burning material.

5.3 Special Hazards

Thermal decomposition or combustion may produce:

- Carbon monoxide
- Carbon dioxide
- Irritating organic vapours
- Phenolic fumes



- Dense smoke

5.4 Advice for Firefighters

- Wear self-contained breathing apparatus.
 - Wear full protective clothing.
 - Cool exposed containers with water spray.
 - Prevent contaminated firefighting water from entering drains and waterways.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

- Ensure adequate ventilation.
- Avoid skin and eye contact.
- Avoid breathing vapours or mist.
- Wear suitable gloves, eye protection and protective clothing.
- Keep unnecessary personnel away from the spill area.

6.2 Environmental Precautions

- Prevent entry into drains, soil and waterways.
- Contain the spill where safe to do so.
- Notify the relevant authorities if significant environmental contamination occurs.

6.3 Methods for Containment and Cleaning

- Absorb liquid material with sand, earth, vermiculite or another inert absorbent.
 - Scrape or collect semi-solid material into a suitable labelled container.
 - Clean the affected surface with detergent and water.
 - Do not use solvents for general cleanup.
 - Dispose of collected material through an authorised waste contractor.
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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

- Use in a well-ventilated workplace.
- Avoid contact with skin, eyes and clothing.
- Avoid breathing vapours or mist.



- Do not eat, drink or smoke while handling.
- Wear appropriate protective equipment.
- Wash thoroughly after handling.
- Keep containers closed when not in use.
- Use clean, dry and compatible dispensing equipment.
- Do not return unused material to the original container.

7.2 Conditions for Safe Storage

Store:

- In the original tightly closed container
- At 5–20 °C
- Protected from direct sunlight
- Protected from heat, air and moisture
- Away from strong oxidising agents
- Away from food and beverages
- In an area inaccessible to children

The product may thicken or become semi-solid at lower temperatures. Gentle warming of the closed container may be used to restore uniformity. Avoid excessive or prolonged heating.

7.3 Specific End Uses

For professional fragrance formulation only.

Use concentration must be determined by:

- Applicable IFRA Standards
- Batch-specific composition
- Intended finished-product category
- Cosmetic safety assessment
- Local regulatory requirements

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

No specific occupational exposure limit has been established for the complete natural extract.



Maintain exposure as low as reasonably practicable.

8.2 Engineering Controls

- Provide adequate general ventilation.
- Use local exhaust ventilation where the material is heated, sprayed or handled in bulk.
- Provide access to an eyewash station and washing facilities.

8.3 Personal Protective Equipment

Eye and Face Protection

Wear:

- Chemical safety glasses; or
- Safety goggles where splashing is possible

Hand Protection

Wear chemical-resistant gloves, such as:

- Nitrile rubber
- Neoprene
- Another material shown to be compatible with the product

Replace contaminated or damaged gloves immediately.

Skin Protection

Wear:

- Protective laboratory coat
- Chemical-resistant apron where bulk handling is performed
- Closed footwear

Respiratory Protection

Normally not required under adequate ventilation.

Use an approved organic-vapour respirator where:

- Ventilation is insufficient
- The product is heated
- Vapour, mist or aerosol is generated



Environmental Exposure Controls

Prevent uncontrolled environmental release.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Representative Information
Physical State	Viscous liquid, paste or soft resinous mass
Colour	Deep green, olive-green to greenish brown
Odour	Intense mossy, earthy, forest-like, woody, leathery and slightly phenolic
Odour Threshold	Not determined
Melting/Softening Range	Batch dependent
Initial Boiling Point	Not determined; complex mixture
Flammability	Combustible under fire conditions
Lower/Upper Explosion Limit	Not determined
Flash Point	Typically above 60 °C; batch testing required
Auto-Ignition Temperature	Not determined
Decomposition Temperature	Not determined
pH	Not applicable
Kinematic Viscosity	Not determined; high and temperature dependent
Solubility in Water	Insoluble or practically insoluble
Solubility in Ethanol	Soluble to partially soluble; slight haze may occur
Partition Coefficient	Not determined for the complex mixture
Vapour Pressure	Low
Relative Density at 20 °C	Approximately 1.00–1.10
Refractive Index at 20 °C	Approximately 1.500–1.560
Particle Characteristics	Not applicable

All values are representative and must be confirmed against the actual batch specification.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity



No hazardous reaction is expected under normal storage and handling conditions.

10.2 Chemical Stability

Stable when stored in a tightly closed container under recommended conditions.

10.3 Possibility of Hazardous Reactions

Hazardous polymerisation is not expected.

10.4 Conditions to Avoid

Avoid:

- Excessive heat
- Direct sunlight
- Open flame
- Prolonged exposure to air
- Moisture
- Incompatible materials

10.5 Incompatible Materials

- Strong oxidising agents
- Strong acids
- Strong alkalis

10.6 Hazardous Decomposition Products

May produce:

- Carbon monoxide
- Carbon dioxide
- Phenolic fumes
- Irritating organic vapours

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Hazard Classes

Acute Toxicity



The complete material is not expected to present high acute toxicity under normal professional handling conditions. Definitive mixture data are unavailable.

Skin Corrosion/Irritation

May cause skin irritation in susceptible individuals.

Serious Eye Damage/Eye Irritation

Representative classification: Causes serious eye irritation.

Respiratory or Skin Sensitisation

May cause an allergic skin reaction.

Oakmoss extract is associated with fragrance sensitisation, particularly where sensitising lichen-derived constituents are present.

Germ-Cell Mutagenicity

No definitive mixture data are available.

Carcinogenicity

No definitive mixture classification has been established from the available information.

Reproductive Toxicity

No definitive mixture data are available.

Specific Target-Organ Toxicity—Single Exposure

Not classified on the basis of available information.

Specific Target-Organ Toxicity—Repeated Exposure

Not classified on the basis of available information.

Aspiration Hazard

Not classified based on the physical form and available information.

11.2 Information on Other Hazards

Endocrine-disrupting properties have not been established for the complete mixture.



SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Representative classification:

Toxic to aquatic life with long-lasting effects.

12.2 Persistence and Degradability

Complete biodegradation data are unavailable for the natural complex substance.

Some constituents may degrade slowly in the environment.

12.3 Bioaccumulative Potential

Some hydrophobic constituents may have bioaccumulative potential.

12.4 Mobility in Soil

Expected to have limited mobility because of low water solubility.

12.5 PBT and vPvB Assessment

The product has not been identified as PBT or vPvB based on available representative information.

12.6 Endocrine-Disrupting Properties

No definitive environmental endocrine-disruption assessment is available for the complete extract.

12.7 Other Adverse Effects

Avoid all uncontrolled release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

- Dispose through an authorised chemical-waste contractor.



- Do not discharge into drains, soil or waterways.
- Do not mix with household waste.
- Empty containers may retain hazardous residue.
- Dispose of contaminated packaging according to local regulations.
- Recycling may be considered only after containers have been professionally cleaned.

SECTION 14: TRANSPORT INFORMATION

Transport classification must be confirmed from the actual batch flash point, environmental classification, package size and applicable modal regulations.

Transport Information	Representative Status
UN Number	Batch dependent
UN Proper Shipping Name	Batch dependent
Transport Hazard Class	Batch dependent
Packing Group	Batch dependent
Environmental Hazard	May apply
Marine Pollutant	Confirm before sea transport
Special Precautions	Keep upright, tightly closed and protected from heat
Bulk Maritime Transport	Not intended for bulk shipment

Where the product meets the criteria for an environmentally hazardous liquid, an appropriate **UN 3082** classification may apply. The shipper must confirm classification using the batch-specific SDS and applicable ADR, IMDG and IATA provisions.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations

Prepared with reference to:

- Regulation (EC) No. 1907/2006 concerning REACH
- Commission Regulation (EU) 2020/878 concerning SDS requirements
- Regulation (EC) No. 1272/2008 concerning CLP
- Regulation (EC) No. 1223/2009 concerning cosmetic products
- Applicable IFRA Standards



Commission Regulation (EU) 2020/878 amended the prescribed content and format of REACH safety data sheets.

15.2 Oakmoss Regulatory Note

IFRA maintains a dedicated Standard for oakmoss extract because its safe use depends on both the finished-product category and conformity with prescribed compositional requirements. The current raw-material grade must not be described as IFRA compliant unless supported by batch-specific analytical documentation.

The name **Oakmoss Green Absolute** does not confirm:

- Low-atranol processing
- Atranol or chloroatranol content
- Dehydroabietic-acid content
- EU cosmetic suitability
- IFRA conformity

A chemical safety assessment for this supplied quantity has not been provided.

SECTION 16: OTHER INFORMATION

16.1 Full Text of Hazard Statements

- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H411: Toxic to aquatic life with long-lasting effects.

16.2 Recommended Shelf Life

24 months from the date of manufacture when stored unopened under the recommended conditions.

16.3 Storage Recommendation

Store at 5–20°C in tightly sealed original containers, protected from light, heat, air and moisture.

16.4 Intended User

For trained professional and industrial users of perfumery raw materials.

16.5 Disclaimer



This Safety Data Sheet has been prepared using representative information for concentrated Oakmoss Green Absolute obtained from *Evernia prunastri*.

No original manufacturer SDS, batch-specific GC/MS report, flash-point certificate, atranol analysis, chloroatranol analysis or transport declaration was supplied. Therefore:

- Hazard classifications are representative.
- Physical values are indicative.
- Transport status must be confirmed before shipment.
- IFRA and EU cosmetic compliance are not established by this MSDS.
- “Green” describes the commercial grade and does not constitute a regulatory or low-atranol claim.

The information is provided as guidance for safe handling, storage, transport and professional use. It does not constitute a warranty, product specification or finished-product safety assessment.

AUTHORISED BY

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