

## Squalane

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

Revision Date: 01-Oct-2021  
Supersedes: 27-Aug-2020

### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b>	Squalane	<b>Distributor:</b>	MakingCosmetics.com Inc.
<b>Synonyms:</b>	Tetracosane, 2,6,10,15,23-hexamethyl-Dodecahydrosqualene; Corbisol, Robane, Perhydrosqualene; Spinacane, Vitabiosol, Renewable Squalane	<b>Address:</b>	10800 231 <sup>st</sup> Way NE Redmond, WA 98053 (USA)
<b>INCI Name:</b>	Squalane	<b>Phone / Fax:</b>	425-292-9502 / 425-292-9601
<b>CAS Number:</b>	111-01-3	<b>Web:</b>	www.makingcosmetics.com
<b>Formula:</b>	C <sub>30</sub> H <sub>62</sub>	<b>Emergency Telephone Number:</b>	1-800-424-9300 (Chemtrec)
<b>Product Form:</b>	Liquid		
<b>Product Use:</b>	Cosmetic use		

### 2 HAZARDS IDENTIFICATION

<b>GHS Classification:</b>	Not classified		
<b>GHS Labeling:</b>	Not a dangerous substance according to GHS		
<b>GHS Hazard Pictograms:</b>	None		
<b>GHS Hazard Statements:</b>	None		
<b>GHS Precautionary Statements:</b>	None		
<b>Potential Health Hazards:</b>	Eyes: Can cause eye irritation characterized by redness, watering, and itching Inhalation: Inhalation causes irritation of the lungs and respiratory system. Skin: Can cause irritation characterized by itching, scaling, reddening, or, blistering Ingestion: May be harmful if swallowed.		
<b>NFPA Ratings (704):</b>	<b>Health</b>	1	Slight
	<b>Flammability</b>	1	Slight
	<b>Reactivity</b>	0	Minimal
	<b>Specific Hazard</b>	N/A	N/A

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Squalane	111-01-3	>92%	422.83 g/mol

This substance is not considered hazardous under EU and US criteria. It contains minor isomeric byproducts which are not considered hazardous. The GHS classification is based on Regulation (EC) 1272/2008 (EU CLP) and OSHA 29 CFR 1910.1200, (United Nations ST/SG/AC 10/30 rev 3).

### 4 FIRST AID MEASURES

<b>Eyes:</b>	If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.
<b>Inhalation:</b>	Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.
<b>Skin:</b>	Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.
<b>Ingestion:</b>	If swallowed, call a physician immediately. Do Not Induce Vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Do not give anything to drink unless directed by medical personnel. Seek medical attention if symptoms occur. Notify medical personnel and supervisor.

Treat symptomatically and supportively. If accidental exposure occurs to an individual who is also taking one or more concomitant medications, consult the respective package or prescribing information for potential drug interactions.

## 5 FIRE-FIGHTING MEASURES

<b>Suitable (and unsuitable) extinguishing media:</b>	High airborne concentrations of finely divided organic particles can potentially explode if ignited. Use appropriate media (water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials) for adjacent fire. Do not use water.
<b>Special protective equipment &amp; precautions for firefighters:</b>	Wear full protective clothing and a self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode. Decontaminate all equipment after use.
<b>Flash Points:</b>	218°C (424°F) - closed cup
<b>Specific hazards arising from the chemical:</b>	May emit toxic gases such as carbon monoxide and carbon dioxide. See also Stability and Reactivity section.

## 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment &amp; emergency procedures:</b>	If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment. Area should be adequately ventilated.
<b>Environmental precautions:</b>	Do not empty into drains. Avoid release to the environment. Notify environmental authorities in case of large leaks.
<b>Methods and material for containment and cleaning up:</b>	For small spills (such as in a laboratory), soak up material with absorbent pads and wash spill area thoroughly with soap and water. For large spills in manufacturing, absorb liquid with and appropriate adsorbent. Do not raise dust. Eliminate ignition sources. Use only equipment suitable for use with combustible liquids. Place spill materials into a leak-proof container suitable for disposal. Dispose of material in a manner that is compliant with federal, state, and local laws.

## 7 HANDLING & STORAGE

<b>Precautions for safe handling:</b>	See section 8 for recommendations on the use of personal protective equipment. Avoid contact with eyes and other mucous membranes. Wash thoroughly after handling. Use personal protective equipment. Avoid breathing vapor. Do not eat, drink, or smoke while handling this product. Avoid prolonged or repeated exposure. Provide sufficient air exchange and/or exhaust in workrooms. Use normal preventative fire protection measures. Keep away from sources of ignition. Keep away from incompatible materials such as oxidizing agents.
<b>Conditions for safe storage, incl. any incompatibilities:</b>	Keep container tightly closed in a cool and well-ventilated area. To maintain product quality, do not store in heat or direct sunlight. Keep away from heat and incompatible materials (see section 10 for incompatibilities).

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Squalane	Not available		

TWA: Time Weighted Average over 8 hours of work.  
 TLV: Threshold Limit Value over 8 hours of work.  
 REL: Recommended Exposure Limit  
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.  
 IDLH: Immediately Dangerous to Life or Health  
 WEEL: Workplace Environmental Exposure Levels  
 CEIL: Ceiling

### Personal Protection:

<b>Eyes:</b>	Wear safety glasses with side shields, chemical splash goggles, or full-face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
<b>Inhalation:</b>	Provide ventilation. Use local exhaust and/or enclosure at mist/aerosol/spray-generating points. High-energy operations such as spraying should be done within an approved emission control or containment system. Remove ignition sources. If adequate ventilation is unavailable, use a NIOSH approved N95 or P95 dust mask or an approved and properly fitted air-purifying respirator with organic vapor cartridge based on an assessment of risk and exposure level. Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls.

- Body:** Wear nitrile or other impervious gloves if skin contact is possible as squalane may act as a vehicle for skin absorption of other toxic substances in the workplace. Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact, and solvents and reagents in use.
- Other:** Wash hands after handling substance especially before eating, drinking, or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors). Decontaminate all protective equipment following use. Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Liquid	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	Odorless	<b>Vapor Density:</b>	No data available
<b>Odor Threshold:</b>	No data available	<b>Evaporation Rate:</b>	No data available
<b>Color:</b>	Clear to colorless	<b>Refractive Index:</b>	No data available
<b>Molecular Weight:</b>	422.83 g/mol	<b>Upper/Lower Explosive Limit:</b>	No data available
<b>pH:</b>	No data available	<b>Flash Point:</b>	218 °C (424 °F) - closed cup
<b>Boiling Point/Range:</b>	176 °C (348 °F) at 0.05 mm Hg 210-215 °C at 1.0 mm Hg	<b>Specific Gravity @ 25 °C:</b>	No data available
<b>Melting Point:</b>	-38 °C (-36.4 °F)	<b>Solubility:</b>	Water insoluble. Soluble in alcohols.
<b>Relative Density:</b>	0.81 g/mL	<b>Auto-Ignition Temperature:</b>	No data available
<b>Partition Coefficient: n-octanol/water:</b>	No data available	<b>Decomposition Temperature:</b>	No data available
<b>Viscosity @ 20 °C:</b>	34 cP	<b>Explosive Properties:</b>	Non-explosive
<b>Oxidizing Properties:</b>	No data available	<b>Freezing Point:</b>	No data available

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous Polymerization:</b>	Not expected to occur.
<b>Conditions to Avoid:</b>	Keep away from heat, sparks, and open flame.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	No data available

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	Not considered acutely toxic.
<b>Skin:</b>	Not expected to be irritant.
<b>Eyes:</b>	Not expected to be irritant.
<b>Respiratory:</b>	Not expected to be irritant.
<b>Ingestion:</b>	Not expected to be irritant.
<b>Carcinogenicity:</b>	Not listed by NTP, IARC, ACGIH, or OSHA.
<b>Teratogenicity:</b>	No data available
<b>Germ Cell Mutagenicity:</b>	No adverse effect observed.
<b>Embryotoxicity:</b>	No adverse effect observed; NOAEL 1000 mg/kg bw/day (OECD 422)
<b>Specific Target Organ Toxicity:</b>	No data available
<b>Reproductive Toxicity:</b>	No adverse effect observed; NOAEL 1000 mg/kg bw/day (OECD 422)
<b>Respiratory/Skin Sensitization:</b>	No data available
<b>Corrosivity:</b>	Squalane is considered non-irritating based on results from both skin and eye irritation testing carried out according to OECD 404 and 405, respectively.
<b>Sensitization:</b>	Squalane is not a dermal sensitizer based on results from OECD 429 and Human Repeat Insult Patch Test with 100% squalane which showed no adverse effects.
<b>Irritation:</b>	Squalane is considered non-irritating based on results from both skin and eye irritation testing carried out according to OECD 404 and 405, respectively.
<b>Repeated Dose Toxicity:</b>	Not considered toxic from repeated exposure.
<b>Genotoxicity:</b>	Negative in an Ames bacterial cell mutagenicity assay.

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Not considered toxic to aquatic species.
<b>Aquatic Vertebrate:</b>	No data available
<b>Aquatic Invertebrate:</b>	No data available
<b>Terrestrial:</b>	No data available
<b>Persistence and Degradability:</b>	Considered inherently biodegradable.
<b>Bioaccumulative Potential:</b>	No data available
<b>Mobility in Soil:</b>	No data available
<b>PBT and vPvB Assessment:</b>	Based on the results of the chemical safety assessment, squalane is not a PBT/vPvB substance. It is inherently biodegradable and not toxic to aquatic species.
<b>Other Adverse Effects:</b>	No data available
<b>Note:</b>	The environmental characteristics of this substance have not been fully investigated. Releases to the environment should be avoided.

## 13 DISPOSAL CONSIDERATIONS

<b>Waste Residues:</b>	Used product should be disposed of according to local, state, and federal regulations. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility.
<b>Product Containers:</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods.

## 14 TRANSPORT INFORMATION

<b>DOT (Dept. of Transportation, USA):</b>	Not regulated as dangerous goods.
<b>TDG (Transportation of Dangerous Goods, Canada):</b>	Not regulated as dangerous goods.
<b>IMDG (International Maritime Dangerous Goods):</b>	Not regulated as dangerous goods.
<b>IATA (International Air Transport Association):</b>	Not regulated as dangerous goods.
<b>ICAO (International Civil Aviation Organization):</b>	Not listed.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable for product as supplied.

## 15 REGULATORY INFORMATION

This SDS complies with the requirements under US, EU and GHS (EU CLP - Regulation EC No 1272/2008) guidelines. Consult your local or regional authorities for more information.

<b>TSCA Inventory Status:</b>	Listed on the TSCA inventory, 2016.
<b>DSCL (EEC):</b>	No data available
<b>WHMIS (Canada):</b>	This SDS contains the information required by WHMIS 2015 regulations.
<b>DSL (Canada):</b>	On DSL Supplement to Canada Gazette, Part I, January 26, 1991.
<b>EU EINECS/ELINCS/NLP:</b>	No data available
<b>China IECSC:</b>	No data available
<b>China IECIC (06.30.2014):</b>	Listed as squalane.
<b>Australia AICS:</b>	No data available
<b>EU REACH Status:</b>	Reach registration number: 01-2120014832-65-0007.
<b>SARA Sections 302/304/313:</b>	Not listed.
<b>California Prop. 65:</b>	Not listed.
<b>OSHA Hazards:</b>	Not hazardous.

## 16 OTHER INFORMATION

**Revision Date:** 01-Oct-2021

**Compliance:** This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.