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

Product Name: Squalane
Synonyms: Tetracosane, 2,6,10,15,23-hexamethyl-Dodecahydrosqualene; Corbisol, Robane, Perhydrosqualene; Spinacane, Vitabiosol, Renewable Squalane
INCI Name: Squalane
CAS Number: 111-01-3
Formula: $C_{30}H_{62}$
Product Form: Liquid
Product Use: Cosmetic use

Distributor: MakingCosmetics.com Inc.
Address: 10800 231st Way NE
Redmond, WA 98053 (USA)

Phone / Fax: 425-292-9502 / 425-292-9601
Web: **www.makingcosmetics.com**

Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Not classified
GHS Labeling: Not a dangerous substance according to GHS
GHS Hazard Pictograms: None
GHS Hazard Statements: None
GHS Precautionary Statements: None
Potential Health Hazards: 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.

NFPA Ratings (704):

Health	1	Slight
Flammability	1	Slight
Reactivity	0	Minimal
Specific Hazard	N/A	N/A

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
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

Eyes: 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.
Inhalation: 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.
Skin: Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.
Ingestion: 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

Suitable (and unsuitable) extinguishing media:	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.
Special protective equipment & precautions for firefighters:	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.
Flash Points:	218°C (424°F) – closed cup
Specific hazards arising from the chemical:	May emit toxic gases such as carbon monoxide and carbon dioxide. See also Stability and Reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	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.
Environmental precautions:	Do not empty into drains. Avoid release to the environment. Notify environmental authorities in case of large leaks.
Methods and material for containment and cleaning up:	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 matter that is compliant with federal, state, and local laws.

7 HANDLING & STORAGE

Precautions for safe handling:	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.
Conditions for safe storage, incl. any incompatibilities:	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

Component	Exposure Limits	Basis	Entity
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:

Eyes:	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.
Inhalation:	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

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

10 STABILITY AND REACTIVITY

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

11 TOXICOLOGICAL INFORMATION

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

12 ECOLOGICAL INFORMATION

Ecotoxicity	Not considered toxic to aquatic species.
Aquatic Vertebrate:	No data available
Aquatic Invertebrate:	No data available
Terrestrial:	No data available
Persistence and Degradability:	Considered inherently biodegradable.
Bioaccumulative Potential:	No data available
Mobility in Soil:	No data available
PBT and vPvB Assessment:	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.
Other Adverse Effects:	No data available
Note:	The environmental characteristics of this substance have not been fully investigated. Releases to the environment should be avoided.

13 DISPOSAL CONSIDERATIONS

Waste Residues:	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.
Product Containers:	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

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

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