

Retinol


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

Revision Date: 09-24-2015

1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Retinol	Distributor:	MakingCosmetics.com Inc.
Synonyms:		Address:	10800 231 st Way NE Redmond, WA 98053 (USA)
INCI Name:	Retinol, BHT, BHA, n-heptane, methanol, polysorbate 20	Phone / Fax:	425-292-9502 / 425-292-9601
		Web:	www.makingcosmetics.com
CAS Number:	68-26-8, 128-37-0, 25013-16-5, 142-82-5, 67- 56-1, 9005-64-5	Emergency Telephone Number: 1-800-424-9300 (Chemtrec)	
Formula:	N/a		
Product Form:	Liquid		
Product Use:	Cosmetic use		

2 HAZARDS IDENTIFICATION

GHS Classification (Retinol):	Skin Sens. 1, Eye Irrit. 2A, Repr. 1B, Carcinogenicity 2, Reproductive toxicity 1B												
GHS Signal Word (Retinol):	WARNING												
GHS Hazard Pictograms (Retinol):													
GHS Hazard Statements (Retinol):	H317: May cause an allergic skin reaction H319: Causes serious eye irritation H351: Suspected of causing cancer H360: May damage fertility or the unborn child H413: May cause long lasting harmful effects to aquatic life												
GHS Precautionary Statements:	P301: If swallowed get medical attention if you feel unwell												
Potential Health Hazards:	Eyes: May be irritant. May cause eye irritation. Inhalation: Not expected to be irritant. Skin: May be irritant. Ingestion: May be irritant.												
NFPA Ratings (704):	<table border="1"> <tr> <td>Health</td> <td>2</td> <td>Moderate</td> </tr> <tr> <td>Flammability</td> <td>1</td> <td>Slight</td> </tr> <tr> <td>Reactivity</td> <td>0</td> <td>Minimal</td> </tr> <tr> <td>Specific Hazard</td> <td>n/a</td> <td></td> </tr> </table>	Health	2	Moderate	Flammability	1	Slight	Reactivity	0	Minimal	Specific Hazard	n/a	
Health	2	Moderate											
Flammability	1	Slight											
Reactivity	0	Minimal											
Specific Hazard	n/a												

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
retinol	68-26-8	42.75-49.5%	
2,6-di-tert-butyl-p-cresol (BHT)	128-37-0	3.15-3.5%	
tert-butyl-4-methoxyphenol	25013-16-5	0.9-1.1%	
methanol	67-56-1	0-0.2%	

4 FIRST AID MEASURES

Eyes:	Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. If irritation persists get medical attention.
Inhalation:	Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
Skin:	Wash off skin with soap and water. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult physician immediately.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: Alcohol-resistant foam, dry chemical

Special protective equipment & precautions for firefighters: Firefighters should wear full firefighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Flash Points: 390 °F

Specific hazards arising from the chemical: Do not allow runoff from firefighting to enter drains or water courses.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Isolate spill area immediately. Keep unauthorized personnel away. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains, inform respective authorities.

Methods and material for containment and cleaning up: Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

7 HANDLING & STORAGE

Precautions for safe handling: Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Conditions for safe storage, incl. any incompatibilities: Avoid sunlight exposure and humidity. Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Retinol	Data unavailable		

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

Inhalation: In case of open handling of larger quantities wear particle mask or respirator.

Body: Wear protective gloves.

Other: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Physical State:	Viscous, liquid	Vapor Pressure:	Undetermined
Odor:	Characteristic	Vapor Density:	1.0g/cm ³
Taste:	Undetermined	Evaporation Rate:	Undetermined
Color:	Yellow	Flammability:	Undetermined
Molecular Weight:	See section 3	Upper/lower Explosive Limit:	Undetermined
pH (1% sol. in water)	N/A	Solubility:	Soluble in oils and fats
Boiling Point:	134 °C	Specific Gravity:	Undetermined

Melting Point: -35°C

Flash Point: 199°C

10 STABILITY AND REACTIVITY

Reactivity: Product is stable under normal conditions
Chemical Stability: Product is stable under normal conditions
Hazardous Polymerization: Will not occur
Conditions to Avoid: Heat
Incompatible Materials: Strong bases, strong acids, strong oxidizing agents
Hazardous Decomposition Products: None if used for intended purpose. No decomposition if used according to specifications.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50 > 2000 mg/kg body weight
Skin: Mild skin irritation
Eyes: Irritating to eyes
Respiratory: May cause irritation
Ingestion: None known
Carcinogenicity: No indication for carcinogenicity known
Teratogenicity: Teratogenic embryotoxic
Germ Cell Mutagenicity: Not mutagenic
Embryotoxicity: May cause birth defects based on animal data. Pregnant women should exercise caution regarding exposure.
Specific Target Organ Toxicity: Not available
Reproductive Toxicity: Not available
Respiratory/Skin Sensitization: May cause sensitization by skin contact

12 ECOLOGICAL INFORMATION

Ecotoxicity
Aquatic Vertebrate: Very toxic with long lasting effects
Aquatic Invertebrate: Very toxic with long lasting effects
Terrestrial: Very toxic with long lasting effects
Persistence and Degradability: Not readily biodegradable
Bioaccumulative Potential: Not available
Mobility in Soil: Not available
PBT and vPvB Assessment: Not available
Other Adverse Effects: Not available

13 DISPOSAL CONSIDERATIONS

Waste Residues: Discharge into the environment must be avoided. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. 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.
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
TDG (Transportation of Dangerous Goods, Canada): Not regulated
IMDG (International Maritime Dangerous Goods): Label as environmentally hazardous substance, liquid
IATA (International Air Transport Association): Label as miscellaneous dangerous goods
ICAO (International Civil Aviation Organization): Label as miscellaneous dangerous goods

15 REGULATORY INFORMATION

DSCL (EEC): This product is not classified according to the EU regulations. Not applicable.
WHMIS (Canada): Not controlled under WHMIS (Canada)

16 OTHER INFORMATION

Revision Date: 09-24-2015

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.