



# Nonoxynol-9

## Material Safety Data Sheet

(updated 7-11-2014)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Nonoxynol-9

**INCI Name:** Nonoxynol-9

**CAS Number:** 9016-45-9

**Chemical Name:**

**Company Name:** MakingCosmetics Inc.

**Company Address:** 35318 SE Center Street, Snoqualmie WA 98065, Phone 425-292-9502

CHEMICAL: NONIONIC SURFACTANT – ALKYLPHENOL ETHOXYLATE  
CAS NUMBER: 9016-45-9

### SECTION 2 – COMPOSITION AND INFORMATION OF INGREDIENTS

THE CRITERIA OR LISTING COMPONENTS IN THE COMPOSITION SECTION ARE AS FOLLOWS:  
CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1% OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0% OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0% OR GREATER. THIS IS NOT INTENDED TO BE COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.

Product and/or component(s) Carcinogenic According to:  
OSHA IARA NTP OTHER NONE X

Composition:

Chemical Name:	CAS Number	Exposure Limits	Range in %
Poly(oxy-1,2-ethanediyl), Alpha-(nonylphenyl)-omega-hydroxy- Glycol ethers (fraction of product matching EPA definition)	9016-45-9		100 1.00 – 2.99

THIS PRODUCT IS CONSIDERED HAZARDOUS ACCORDING TO OSHA (1910.1200).

### SECTION 3 – HAZARD IDENTIFICATION

#### EMERGENCY OVERVIEW

Appearance: Pale liquid  
Odor: Slight

**WARNING STATEMENT – CAUTION ! MAY CAUSE EYE IRRITATION**

#### Hazardous Material Information System (United States)

Health 1 Fire 1 Reactivity 0 Personal Protection

#### National Fire Protection Association NFPA (United States)

Health 1 Flammability 1 Reactivity 0 Specific Danger

#### POTENTIAL HEALTH EFFECTS

Primary Route of Exposure: Eye (X) Skin (X) Inhalation (X) Ingestion

Effects of Overexposure

Acute:

Eyes: May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.

Skin: Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling. Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact; below, and Section 11 for information regarding potential long term effects.

Inhalation: Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated area or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Ingestion: May cause abdominal discomfort, nausea, and diarrhea.

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**SECTION 3 – HAZARD IDENTIFICATION continued.....**

Sensitization Properties: Unknown  
Chronic: No adverse effects have been documented in humans as a result of chronic exposure. Section 11 may contain applicable animal data.  
Medical Conditions Aggravated by Exposure: There is no evidence that this product aggravates an existing medical condition.  
Other Remarks: None

**SECTION 4 – FIRST AID MEASURES**

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.  
Skin: Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.  
Ingestion: If patient is conscious and can swallow, give two glasses of water (16oz). Induce vomiting as directed by medical personnel. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.  
Inhalation: If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.  
Other Instructions: None

**SECTION 5 – FIRE-FIGHTING MEASURES**

Ignition Temperature – AIT (degrees C): Not applicable.  
Flash Point (degrees C): 237.8 (460 Deg.F) (PMCC)  
Flammable Limits \$ (Lower-Upper): Lower: Not determined  
Upper: Not determined  
Recommended Fire Extinguishing Agents And Special Procedures:  
Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.  
Unusual or Explosive Hazards: None  
Special Protective Equipment for Firefighters: Wear full protective clothing and positive pressure breathing apparatus.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800) 424-9300)**

Procedures in Case of Accidental Release, Breakage or Leakage:  
Contain spill if possible, contain with absorbent materials such as clay or soil, and shovel up. Avoid skin and eye contact.

**SECTION 7 – HANDLING AND STORAGE**

Precautions to be taken in:  
Handling: Minimum feasible handling temperatures should be maintained.  
Storage: Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

**SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION**

Protective Equipment (Type)  
Eye/Face Protection: Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.  
Skin Protection: Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.  
Respiratory Protection: Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.  
Ventilation: Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.  
Exposure Limit for the Total Product: None established for product.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Pale liquid
Odor:	Slight
Boiling Point (degrees C):	Not determined
Melting/Freezing Point (degrees C):	5 (41 Deg. F)
Specific Gravity (water=1):	1.06
pH:	7
Vapor Pressure:	<1 mmHg at 20 Deg. C (68 Deg. F)
Viscosity:	110 cSt at 37.7 Deg. C (100 Deg. F)
VOC Content:	<1% by ASTM D 2369
Vapor Density (Air=1):	>1
Solubility in Water (%):	>10
Other:	None

**SECTION 10 – STABILITY AND REACTIVITY**

This Material Reacts Violently With:

Air	Water	Heat	Strong Oxidizers	Other	None of these (X)
Comments:	None				

Products Evolved When Subjected to Heat or Combustion:

Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning.  
Heating in air may product irritating aldehydes, acids, and ketones.

Hazardous Polymerizations:

DO NOT OCCUR

**SECTION 11 – TOXICOLOGICAL INFORMATION**
**TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)**

Oral:	LD50 3.31 g/kg (rat) slightly toxic
Dermal:	LD50 > 2.00 g/kg (rabbit) practically non-toxic
Inhalation:	Believed to be practically non-toxic

**IRRITATION INDEX, ESTIMATION OF IRRITATION**

Eyes:	(Draize) 14.40 / 110 (rabbit) slightly irritating
Skin:	(Draize) 1.04 / 8.0 (rabbit) slightly irritating
Sensitization:	Not determined
Other:	This product may contain residual (less than 100 ppm) concentrations of ethylene oxide. Ethylene oxide causes tumors in laboratory animals.

**SECTION 12 – DISPOSAL CONSIDERATIONS**

Waste Disposal Methods:

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. 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. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous. This material should be disposed of in accordance with local, state and federal regulations.

Remarks: None

**SECTION 13 – TRANSPORT INFORMATION**

Transportation

DOT:	Proper Shipping Name:	Not regulated
	Hazard Class:	Not regulated
	Identification Number:	Not regulated
	Packing Group:	Not regulated
	Label Required:	Not regulated

Depending on container size, spills of this product may require reporting under SARA 304 and/or CERCLA 102(A) regulations. Please refer to Sections 2 and 14 of MSDS for composition and component RQ information.

IMDG:	Proper Shipping Name:	Not regulated
ICAO:	Proper Shipping Name:	Not regulated
TDG:	Proper Shipping Name:	Not regulated
	Hazard Class:	Not regulated
	Identification Number:	Not regulated
	Label Required:	Not regulated

**SECTION 14 – REGULATORY INFORMATION**

**Federal Regulations:**

SARA Title III: Section 302.304 Extremely Hazardous Substances  
 Chemical Name: Residual ethylene oxide(typical)  
 CAS Number: 75-21-8  
 Range in %: 0.001  
 TPQ: 1000  
 RQ: 10

**Section 311 Hazardous Categorization:**

Acute (X)      Chronic      Fire      Pressure      Reactive      N/A

**Section 313 Toxic Chemical:**

Glycol ethers (fraction of product matching EPA definition):  
 CAS Number      Concentration:      1.00 – 2.99

**CERCLA 102(a) DOT Hazardous Substances:**

Chemical Name:	CAS Number	Range in %	RQ
Glycol ethers (fraction of product matching EPA definition)		1.00 – 2.99	1
Residual ethylene oxide (typical)	75-21-8	0.001	10

**States Right to Know Regulations:**

Chemical Name: None      State Right to Know

State list: CT(Connecticut), FL (Florida), IL (Illinois), MI (Michigan), LA (Louisiana), MA (Massachusetts), NJ (New Jersey), PA (Pennsylvania), RI (Rhode Island)

California Prop. 65: The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Chemical Name:	CAS Number
Residual ethylene oxide (typical)	75-21-8

**INTERNATIONAL REGULATIONS:**

TSCA Inventory Status: This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act Chemical Substance Inventory.

WHMIS Classification: Not regulated

Canadian Inventory Status: This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

EINECS Inventory Status: This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).

Australian Inventory Status: This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS).

Japan Inventory Status: This product, or its components, are listed on or are exempt from the Japanese Ministry of International Trade and Industry (MITI) inventory.

**SECTION 15 – ENVIRONMENTAL INFORMATION**

Aquatic Toxicity: LC50-96hr. Aquatic toxicity rating is believed to be > 1.00 – 10.00 ppm (moderately toxic)  
 Mobility: Not determined  
 Persistence and Biodegradability: Not determined  
 Potential to Bioaccumulate: Not determined  
 Remarks: None

**SECTION 16 – OTHER INFORMATION 6/13/2001**

**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.