Nonoxynol-9

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

Revision Date: 06-Nov-2026
Supersedes: 17-Dec-2024

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Nonoxynol-9
Synonyms: No data available
INCI Name: Nonoxynol-9
CAS Number: 9016-45-9
Formula: No data available
Product Form: Liquid
Product Use: Cosmetic use

Distributor: MakingCosmetics 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:
Skin corrosion/irritation - Category 2
Serious eye damage/eye irritation Category 2A
Hazardous to the aquatic environment – Chronic Hazard Category 2

GHS Signal Word: **WARNING!**

GHS Hazard Pictograms:



GHS Hazard Statements:
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

GHS Precautionary Statements:
P264 - Wash hands, forearms and face thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of 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.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Potential Health Hazards:
Eyes: Causes serious eye irritation.
Inhalation: Not expected under normal conditions of use.
Skin: Causes skin irritation.
Ingestion: May cause nausea, vomiting, and diarrhea.

NFPA Ratings (704):

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Nonoxynol-9	9016-45-9	100%	Not Available

4 FIRST AID MEASURES

Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention
Inhalation:	Remove person to fresh air and keep comfortable for breathing.
Skin:	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
Ingestion:	Do Not Induce Vomiting. Never give anything by mouth to an unconscious person. Call a poison center/doctor/ physician if you feel unwell.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	No direct explosion or fire hazard. Use appropriate media (water spray, dry powder, foam, carbon dioxide) for surrounding environment for adjacent fire. Do not use a solid water stream as it may scatter and spread fire
Special protective equipment & precautions for firefighters:	Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Fight fire from safe distance and protected location.
Flash Points:	447°F (230.6°C)
Specific hazards arising from the chemical:	Carbon dioxide and carbon monoxide are hazardous decomposition products in case of fire. See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Stop leak if safe to do so. Ventilate spillage area. Avoid contact with skin and eyes. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.
Methods and material for containment and cleaning up:	Collect spillage. Take up liquid spill into absorbent material. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible, without risk. Dispose of absorbed material in accordance with the regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Not expected to present a significant hazard under anticipated conditions of normal use. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use good personal hygiene practice. See section 8 for recommendations on the use of personal protective equipment.
Conditions for safe storage, incl. any incompatibilities:	Keep in a cool, well-ventilated place away from heat. Protect from sunlight. Store product in container of same material as original container. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Exposure Limits	Basis	Entity
Nonoxynol-9	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.
Inhalation:	In case of insufficient ventilation, wear suitable respiratory equipment.
Body:	Wear suitable protective gloves and full protective clothing.
Other:	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:	Mild odor	**Density:**	1.06 g/ml
Odor Threshold:	No data available	**Evaporation Rate:**	No data available
Color:	Pale yellow	**Flammability:**	No data available
Molecular Weight:	No data available	**Upper/lower Explosive Limit:**	No data available
pH:	No data available	**Flash Point:**	447°F (230.6°C)
Boiling Point:	No data available	**Specific Gravity:**	No data available
Freezing Point:	39°F (3.89°C)	**Water Solubility:**	No data available
Relative Density:	1.06	**Auto-Ignition Temperature:**	No data available
Partition Coefficient: n-octanol/water:	3.7 – 4.2	**Decomposition Temperature:**	No data available
Viscosity:	No data available	**Explosive Properties:**	No data available
Oxidizing Properties:	No data available	**Metal Corrosion:**	No data available

10 STABILITY AND REACTIVITY

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.
Chemical Stability: Stable under normal conditions.
Hazardous Polymerization: No data available.
Conditions to Avoid: None under recommended storage and handling conditions.
Incompatible Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possible Hazardous Reactions: No dangerous reactions known under normal conditions of use.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: Not classified under oral, dermal, inhalation toxicity.
Skin: Causes skin irritation.
(Rat, Dermal) LD50 > 2000 mg/kg. (Rabbit, Dermal) LD50: 1780 µl/kg.
Eyes: Causes serious eye irritation.
Inhalation: None under normal conditions.
Ingestion: None under symptoms/effects under normal conditions of use.
(Rat, Oral) LD50: 2590 mg/kg. LD50: 4290 mg/kg body weight, Animal: other, Guideline: EU Method B.1.
Carcinogenicity: Not classified.
Teratogenicity: No data available.
Germ Cell Mutagenicity: Not classified.
Embryotoxicity: No data available.
Specific Target Organ Toxicity: Not classified under single or repeated exposure.
Reproductive Toxicity: Not classified.
Respiratory/Skin Sensitization: Not classified.
Aspiration Hazard: Not classified.

12 ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic life with long lasting effects.
Aquatic Vertebrate: (Fish [1]) LC50: 1 mg/l. NOEC, Chronic: 1 mg/l.
Aquatic Invertebrate: (Crustacea [1]) EC50: 0.71 mg/l. NOEC, Chronic: 0.285 mg/l.
Algae: (Algae) ErC50: 11.2 mg/l.
Persistence and Degradability: Not readily biodegradable.
Bioaccumulative Potential: No data available.
Mobility in Soil: 3.83758844
PBT and vPvB Assessment: No data available.
Other Adverse Effects: No data available.

13 DISPOSAL CONSIDERATIONS

Waste Residues: 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.
Product Containers:	Do not re-use empty 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):	UN Number: UN3082 Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s. Class: 9 Packing Group: III Environmental Hazard: Yes.
TDG (Transportation of Dangerous Goods, Canada):	UN Number: UN3082 Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s. Class: 9 Packing Group: III Environmental Hazard: Yes.
IMDG (International Maritime Dangerous Goods):	UN Number: UN3082 Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s. Class: 9 Packing Group: III Environmental Hazard: Yes.
IATA (International Air Transport Association):	UN Number: UN3082 Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s. Class: 9 Packing Group: III Environmental Hazard: Yes.
ICAO (International Civil Aviation Organization):	No data available.
Special Precautions for user:	Exempt from regulation by US DOT when shipped in the USA solely by land in containers less than 119 gallons, refer to 49 CFR 173.150(f).
DOT Special Provisions (49 CFR 172.102)	8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description “Other regulated substances, liquid or solid, n.o.s.”, as appropriate. In addition, for solid materials, special provision B54 applies. 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination. 173 - An appropriate generic entry may be used for this material. 335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as “Environmentally hazardous substances, solid, n.o.s,” UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in

Table 2 for UN2672).
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx) : 155
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): No Limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): No Limit
DOT Vessel Stowage Location: A - The material may be stowed ''on deck'' or ''under deck'' on a cargo vessel and on a passenger vessel.

15 REGULATORY INFORMATION

TSCA Inventory Status: All components of this product are present and listed as Active.
SARA 313: NONOXYNOL-9 is subject to the reporting requirements.
California Prop. 65: This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

16 OTHER INFORMATION

Revision Date: 06-Nov-2026
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.