Quaternium-70

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

Revision Date: 06-Nov-2026
Supersedes: 18-Feb-2025

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Quaternium-70
Synonyms: No data available
INCI Name: Quaternium-70, Propylene Glycol
CAS Number: 68921-83-5, 57-55-6
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: 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: Not expected to be an irritant.
Inhalation: Not expected to be an irritant.
Skin: Not expected to be an irritant.
Ingestion: Causes nausea, vomiting, or diarrhea.

NFPA Ratings (704):

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Quaternium-70	68921-83-5	48 - 58%	Not Available
Propylene Glycol	57-55-6	42 - 52%	Not Available

4 FIRST AID MEASURES

Eyes: Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
Inhalation: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
Skin: Wash off with soap and plenty of water.
Ingestion: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Do Not Induce Vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: May be combustible at high temperatures. Use appropriate media (Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide (CO_2)) for surrounding environment for adjacent fire. Do not use direct water jet.

Special protective equipment & precautions for firefighters: Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Follow standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Flash Points: 217.4°F (103°C)

Specific hazards arising from the chemical: In case of fire, hazardous combustion products (Carbon dioxide (CO2), Carbon monoxide (CO), Aldehydes, Hydrocarbons, and Keytones) may form. See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Avoid dust formation. 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:	Do not allow uncontrolled discharge of product into sewers/public water/environment. Notify environmental authorities in case of leak.
Methods and material for containment and cleaning up:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Dispose of absorbed material in accordance with the regulations. Keep in suitable, closed containers for disposal.

7 HANDLING & STORAGE

Precautions for safe handling:	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation, ingestion and contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Use good personal hygiene practice. See section 8 for recommendations on the use of personal protective equipment.
Conditions for safe storage, incl. any incompatibilities:	Electrical installations / working materials must comply with the technological safety standards. Store at room temperature in the original container. Keep container tightly closed in a dry, cool, and well-ventilated place. Keep away from direct sunlight. No decomposition should occur if store and applied as directed. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Exposure Limits	Basis	Entity
Quaternium-70	10 mg/m^3	TWA – WEEL	AIHA

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 or equivalent eye protection.
Inhalation:	In the case of dust or aerosol formation use respirator with an approved filter within the capabilities of the respirator/filter combination. Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator.
Body:	Wear suitable protective gloves and full protective clothing. Follow general industrial hygiene practices. [*Hand protection test*: butyl-rubber (>0.5mm thickness), breakthrough time: 480 minutes]. The exact breakthrough time may vary; Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Other:	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects. 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:	Solid	**Vapor Pressure:**	Not applicable
Odor:	Mild, characteristic	**Relative Vapor Density:**	Not applicable
Odor Threshold:	No data available	**Evaporation Rate:**	Not applicable
Color:	No data available	**Flammability:**	No data available
Molecular Weight:	No data available	**Upper/lower Explosive Limit:**	Not determined
pH:	-127 to -119°F (-88 to -84°C)	**Flash Point:**	217.4°F (103°C)
Boiling Point:	No data available	**Specific Gravity:**	No data available
Melting/Freezing Point:	81 - 90°F (27 - 32°C)	**Water Solubility:**	Not determined
Density (20°C):	1 g/cm^3	**Auto-Ignition Temperature:**	No data available

Partition Coefficient: n-octanol/water:	Not determined	**Thermal Decomposition:**	No data available
Viscosity:	Not applicable	**Explosive Properties:**	No data available
Oxidizing Properties:	Not applicable	**Metal Corrosion:**	No data available

10 STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.
Chemical Stability: Stable under normal conditions.
Hazardous Polymerization: No data available.
Conditions to Avoid: Protect from frost, heat and sunlight.
Incompatible Materials: Strong bases, oxidizing agents, strong acids.
Hazardous Decomposition Products: Chloride fumes, Nitrogen oxides (NOx), Carbon dioxide (CO_2), and Carbon monoxide (CO).
Possible Hazardous Reactions: No dangerous reaction known under conditions of normal use.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: Not classified due to lack of data.
Skin: *(Rabbit, dermal)* LD50: > 2,000 mg/kg (No mortality observed at this dose). Not classified as acutely toxic by dermal absorption under GHS. *(Human, dermal)* Patch Test: Slight, transient irritation [48 hours].
Eyes: Not expected to be an irritant.
Inhalation: Not expected to be an irritant.
Ingestion: *(Rat, oral)* LD50: > 5,000 mg/kg.
Carcinogenicity: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated human carcinogen by IARC or NTP. No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
Teratogenicity: No data available.
Germ Cell Mutagenicity: Not classified due to lack of data.
Embryotoxicity: No data available.
Specific Target Organ Toxicity: Not classified due to lack of data.
Reproductive Toxicity: Not classified due to lack of data.
Skin/Respiratory Sensitization: Not classified due to lack of data.
Component; Quaternium-70: *(Mouse, dermal)* Test type: Local lymph node assay; Conclusion: Does not cause skin sensitization *(OECD 429)*.
Aspiration Toxicity: Based on available data, the classification criteria are not met.

12 ECOLOGICAL INFORMATION

Ecotoxicity: Not classified based on available information.
Aquatic Vertebrate:
Component; Quaternium-70: *(Pimephales promelas)* LC50 = 29,485 - 39,339 mg/l [96 hours; semi-static].
Aquatic Invertebrate:
Component; Quaternium-70: *(Daphnia magna)* EC50: > 10,000 mg/l [48 hours; static].
Algae:
Component; Quaternium-70: *(Pseudokirchneriella subcapitata)* EC50 = 24,200 mg/l [72 hours; static; End point: Growth inhibition].
Persistence and Degradability:
Component; Quaternium-70: Readily biodegradable. Biodegradation: 81% [28 days] *(OECD 301F)*.
Bioaccumulative Potential:
Component; Quaternium-70: *Partition coefficient: n-octanol/water:* -0.92
Mobility in Soil: No data available.
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: Empty containers should be taken to an approved waste handling site for recycling or disposal. 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):	No data available.
Marine Pollutant:	No.

15 REGULATORY INFORMATION

TSCA Inventory Status:	Listed.
Canada (DSL):	Listed.
EU (EINECS):	No data available.
China (IECSC):	Not listed.
Australia (AICS):	Listed.
Japan (ENCS):	Personal Care.
Philippines (PICCS):	Not listed.
Korea (ECL):	Personal Care.
New Zealand (NZIoC):	No data available.

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.