

HydroComplex


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

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1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	HydroComplex	Distributor:	MakingCosmetics Inc.
Synonyms:	No data available	Address:	10800 231 st Way NE Redmond, WA 98053 (USA)
INCI Name:	Water, Pentylene Glycol, Glycerin, Fructose, Urea, Citric Acid, Sodium Hydroxide	Phone / Fax:	425-292-9502 / 425-292-9601
CAS Number:	7732-18-5, 5343-92-0, 56-81-5, 57-48-7, 57- 13-6, 5949-29-1, 77-92-9, 1310-73-2	Web:	www.makingcosmetics.com
Formula:	No data available	Emergency Telephone Number:	1-800-424-9300 (Chemtrec)
Product Form:	Liquid		
Product Use:	Cosmetic use		

2 HAZARDS IDENTIFICATION

GHS Classification:	Serious eye damage: Category 1		
GHS Signal Word:	DANGER!		
GHS Hazard Pictograms:			
GHS Hazard Statements:	H318: Causes serious eye damage.		
GHS Precautionary Statements:	(Prevention) P280: Wear eye protection / face protection. (Response) P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.		
Potential Health Hazards:	Eyes: Causes serious eye damage. Inhalation: May be an irritant. Skin: May be an irritant. Ingestion: May cause nausea, vomiting, and diarrhea.		
NFPA Ratings (704):	Health	N/A	N/A
	Flammability	N/A	N/A
	Reactivity	N/A	N/A
	Specific Hazard	N/A	

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Water	7732-18-5	>50%	Not Available
Pentylene Glycol	5343-92-0	>5 - ≤10%	Not Available
Glycerin	56-81-5	>5 - ≤10%	Not Available
Fructose	57-48-7	>1 - ≤5%	Not Available
Urea	57-13-6	>1 - ≤5%	Not Available
Citric Acid	5949-29-1 / 77-92-9	>1 - ≤5%	Not Available
Sodium Hydroxide	1310-73-2	>1 - ≤5%	Not Available
Maltose	6363-53-7 / 69-79-4	>0.1 - ≤1%	Not Available
Sodium PCA	28874-51-3	>0.1 - ≤1%	Not Available
Sodium Chloride	7647-14-5	>0.1 - ≤1%	Not Available
Sodium Lactate	72-17-3 / 312-85-6 / 867-56-1	>0.1 - ≤1%	Not Available
Trehalose	6138-23-4 / 99-20-7	>0.1 - ≤1%	Not Available
Allantoin	97-59-6	>0.1 - ≤1%	Not Available
Sodium Hyaluronate	9067-32-7	≤0.1%	Not Available
Glucose	8029-43-4 / 68131-37-3	≤0.1%	Not Available

4 FIRST AID MEASURES

Eyes:	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.
Inhalation:	Remove to fresh air immediately. Get medical attention immediately. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.
Skin:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
Ingestion:	Do Not Induce Vomiting. Never give anything by mouth to an unconscious person. If accidentally swallowed obtain immediate medical attention. Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear.
Physician Notes:	Do not leave the victim unattended. First aider needs to protect themselves. First Aid responders should pay attention to self-protection and use the recommended protective clothing. The first aid procedure should be established in consultation with the doctor responsible for industrial medicine. There is no specific antidote available.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	May be combustible at high temperatures. Use appropriate media (water spray, alcohol-resistant foam, dry chemical, carbon dioxide) for surrounding environment and adjacent fire. Do not use a high-volume water jet as an extinguisher.
Special protective equipment & precautions for firefighters:	Follow standard procedure for chemical fires. Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.
Flash Points:	>212°F (>100°C)
Specific hazards arising from the chemical:	No hazardous combustion products are known. See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Ensure adequate ventilation. Evacuate personnel to safe areas. 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. Prevent further leakage or spillage if safe to do so.
Methods and material for containment and cleaning up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Dispose of absorbed material in accordance with the regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Avoid formation of aerosol. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. 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 container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards. No decomposition if stored and applied as directed. No special restrictions on storage with other products (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Glycerin	15 mg/m ³	PEL (Total dust)	OSHA - TRANS
	5 mg/m ³	PEL (Respirable particulate)	OSHA - TRANS

	5 mg/m3	matter)	OSHA - Z1A
	10 mg/m3	TWA (Respirable articulate matter)	OSHA - Z1A
		TWA (Total dust)	OSHA - Z1A
Urea	10 mg/m3	TWA (Total particulate)	WEEL
Sodium hydroxide	2 mg/m3	PEL	OSHA_TRANS
	2 mg/m3	Ceil_Time	NIOSH/GUIDE
	2 mg/m3	TLV-C	OSHA - Z1A
	2 mg/m3	TLV-C	US CA OEL
	2 mg/m3	TLV-C	ACGIH

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

TLV-C: Threshold Limit Value - Ceiling

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

ACGIH: US. ACGIH Threshold Limit Values

Personal Protection:

- Eyes:** Wear tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems. Keep eye wash bottle with pure water.
- Inhalation:** None required; except in case of aerosol formation.
- Body:** Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Wear chemicals-resistant gloves, e.g. safety gloves of nitril (thickness 0.4mm) or of butyl rubber (thickness 0.7mm). Wear impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- 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:	Clear liquid	Vapor Pressure:	No data available
Odor:	Characteristic	Vapor Density:	No data available
Odor Threshold:	No data available	Relative Vapor Density:	Not determined
Color:	Colorless to light yellow	Evaporation Rate:	Not applicable
Molecular Weight:	Not applicable	Flammability:	No data available
pH at 68°F/20°C:	ca. 5.5 Method: DIN 19268	Upper/Lower Explosive Limit:	Vapors may form explosive mixtures with air.
Boiling Point:	Not determined	Flash Point:	>212°F (>100°C)
Melting/Freezing Point:	Not determined	Specific Gravity:	No data available
Relative Density 68°F/20°C:	1.0800 -1.0900 relation to density of water at 4°C	Water Solubility:	Completely miscible
Partition Coefficient: n-octanol/water:	Not applicable	Self-Ignition Temperature:	The substance or mixture is not classified as self-heating
Kinematic/Dynamic Viscosity:	Not determined	Decomposition Temperature:	Not determined
Oxidizing Properties:	The substance or mixture is not classified as oxidizing	Explosive Properties:	Product is not classified as explosive

10 STABILITY AND REACTIVITY

Reactivity:	No decomposition if stored and applied as directed.
Chemical Stability:	No decomposition if stored and applied as directed.
Hazardous Polymerization:	No data available.
Conditions to Avoid:	No data available.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No hazardous decomposition products are known.
Possible Hazardous Reactions:	No decomposition if stored and applied as directed. Vapors may form explosive mixture with air.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not classified based on available information.
Skin:	Product Acute toxicity estimate: > 5,000 mg/kg; Method: Calculation method.
Component	
1,2-Pentanediol:	(Rat, male/female) LD50 Dermal: > 2,000 mg/kg; Method: OECD Test Guideline 402; GLP: no.
1,2,3-Propanetriol:	(Guinea pig, male/female) LD50: 56,750 mg/kg; GLP: no.
1,2,3-Propanetricarboxylic acid, 2-hydroxy-:	(Rat, male/female) LD50 Dermal: > 2,000 mg/kg; Method: OECD Test Guideline 402; GLP: yes.
Eyes:	Product causes serious eye damage.
Component:	
1,2-Pentanediol:	(Rabbit) Method: OECD Test Guideline 405; Result: Eye irritation; GLP: yes; Dose: 0,1 ML; Concentration: 100%.
1,2,3-Propanetriol:	(Rabbit) Result: No eye irritation; GLP: no; Dose: 0,1 ML; Concentration: 100 %
1,2,3-Propanetricarboxylic acid, 2-hydroxy-:	(Rabbit) Method: OECD Test Guideline 405; Result: Eye irritation; GLP: yes; Concentration: 30%; solvents: Water.
Inhalation:	Product Acute toxicity estimate: 70.15 mg/l; Exposure time: 4 hours; Test atmosphere: dust/mist; Method: Calculation method.
Component	
1,2-Pentanediol:	(Rat, male/female) LC50: 7.015 mg/l; Exposure time: 4 hours; Test atmosphere: dust/mist; Method: OECD Test Guideline 403; GLP: no.
Ingestion:	Product Acute toxicity estimate: > 5,000 mg/kg; Method: Calculation method.
Component	
1,2-Pentanediol:	(Rat, male/female): LD50 Oral: > 5,000 mg/kg; Method: OECD Test Guideline 401; GLP: no.
1,2,3-Propanetriol:	(Rat, female) LD50: 27,200 mg/kg; GLP: no.
Urea:	(Rat) LD50: 8,471 mg/kg.
1,2,3-Propanetricarboxylic acid, 2-hydroxy-:	(Rat) LD50 Oral: 3,800 mg/kg.
Carcinogenicity:	Not classified based on available information.
IARC:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Teratogenicity:	No data available.
Germ Cell Mutagenicity:	Not classified based on available information.
Embryotoxicity:	No data available.
Specific Target Organ Toxicity:	Not classified for single or repeated exposure based on available information.
Reproductive Toxicity:	Not classified based on available information.
Skin/Respiratory Sensitization:	Not classified based on available information. (Humans) Product Test Type: HRIPT; Result: No sensitizing effect; GLP: yes; Rate of positive effects: 0 / 55; Concentration: 20%.
Component	
1,2-Pentanediol:	(Human) Test Type: Human repeat insult patch test (HRIPT); Result: No sensitizing effect; Rate of positive effects: 0/53; Concentration: 50%. (Guinea Pig) Test Type: Maurer optimization test Method: OECD Test Guideline 406; Result: No sensitizing effect; GLP: no; Concentration: 10% solvents: Vaseline.
1,2,3-Propanetricarboxylic acid, 2-hydroxy-:	(Human) Test Type: Maximization Test; Result: No sensitizing effect; Rate of positive effects: 0/30; Concentration: 5%; solvents: Petrolatum.
Sodium hydroxide (Na(OH)):	(Humans) Result: No sensitizing effect; GLP: no.
Skin Corrosion/Irritation:	(Humans) Product; Exposure time: 48 hours; Method: Closed patch test; Result: No skin irritation; GLP: yes; Concentration: 20%. Not classified based on available information.
Component	
1,2-Pentanediol:	(Human) Exposure time: 48 hours; Method: Closed patch test; Result: No skin irritation; Concentration: 10 % solvents: Water. (Rabbit) Exposure time: 4 hours; Method: OECD Test Guideline 404; Result: No skin irritation; GLP: yes; Dose: 0,5 ml; Concentration: 100%.
1,2,3-Propanetriol:	(Rabbit) Exposure time: 24 hours; Result: No skin irritation; GLP: no; Dose: 0,5 ml; Concentration: 100%.
1,2,3-Propanetricarboxylic acid, 2-hydroxy-:	(Rabbit) Method: OECD Test Guideline 404; Result: No skin irritation; GLP: yes.
Aspiration Toxicity:	Not classified based on available information.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
Aquatic Vertebrate:	No data available.
Aquatic Invertebrate:	No data available.
Terrestrial:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
PBT and vPvB Assessment:	No data available.
Other Adverse Effects:	This product is a mixture, which has not been tested as a whole.

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. 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 contaminate ponds, waterways or ditches with chemical or used container. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. 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):	No data available.
TDG (Transportation of Dangerous Goods, Canada):	No data available.
IMDG (International Maritime Dangerous Goods):	Not regulated as a dangerous good.
IATA (International Air Transport Association):	Not regulated as a dangerous good.
ICAO (International Civil Aviation Organization):	No data available.
49 CFR:	Not regulated as a dangerous good.
Transport in bulk according to Annex II of MARPOL 73/78 & the IBC Code:	Not applicable for product as supplied.

15 REGULATORY INFORMATION

TSCA Inventory Status:	No data available.
SARA 313:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312:	Serious eye damage or eye irritation.
Canada (DSL):	No data available.
EU (EINECS):	No data available.
China (IECSC):	No data available.
Australia (AICS):	No data available.
Japan (ENCS):	No data available.
Philippines (PICCS):	No data available.
Korea (KECI):	No data available.
New Zealand (NZIoC):	No data available.

16 OTHER INFORMATION

Additional Abbreviation:	NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards, as amended OSHA_TRANS: US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
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US CA OEL: US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended

WEEL: US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended

Z1A: US. OSHA Table Z-1-A (29 CFR 1910.1000)

NIOSH/GUIDE / Ceil_Time: Ceiling Limit Value and Time Period (if specified):

OSHA_TRANS / PEL: Permissible exposure limit

US CA OEL / TLV-C: Ceiling Limit Value

LC50: Lethal Concentration to 50 % of a test population

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose)

NTP: National Toxicology Program

GLP: Good Laboratory Practice

OECD: Organization for Economic Co-operation and Development

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Compliance: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

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