

**1. Identification**

**Product identifier** KIEHL'S GLYCOLIC ACID SIMPLE SERUM  
**Other means of identification**  
**SDS number** 34-51-0000261  
**Recommended use** Personal care product used for cosmetic effect.  
**Recommended restrictions** None known.  
**Manufacturer/Importer/Supplier/Distributor information**

**US Address:** L'Oreal USA Products, Inc  
133 Terminal Avenue  
Clark, NJ 07066  
USA

**Canadian Address:** L'Oreal Canada  
4895 rue Hickmore  
Ville St-Laurent, H4T 1K5  
Canada

**Emergency Phone # :** 1-800-535-5053 (International: 352-323-3500)  
In Canada - 1-613-996-6666 (Canutec (\*666 Cellular))

**For further information:** 1-732-499-2741

**Poison Control # :** 412-390-3326

**2. Hazard(s) identification**

**Physical hazards** Flammable liquids Category 4  
**Health hazards** Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 1  
**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Danger  
**Hazard statement** Combustible liquid. Causes skin irritation. Causes serious eye damage.

**Precautionary statement**

**Prevention** Keep away from flames and hot surfaces-No smoking. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection.

**Response** If on skin: Wash with plenty of water. 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. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.

**Storage** Store in a well-ventilated place. Keep cool.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

### 3. Composition/information on ingredients

#### Mixtures

<b>Chemical name</b>	<b>Common name and synonyms</b>	<b>CAS number</b>	<b>%</b>
GLYCOLIC ACID		79-14-1	9.8
GLYCERIN		56-81-5	5
ETHANOL		64-17-5	4
SODIUM HYDROXIDE		1310-73-2	3

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Combustible liquid.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
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**Methods and materials for containment and cleaning up**

Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

**Environmental precautions****7. Handling and storage****Precautions for safe handling**

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection****Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
ETHANOL (CAS 64-17-5)	PEL	1900 mg/m <sup>3</sup>	
		1000 ppm	
GLYCERIN (CAS 56-81-5)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.
SODIUM HYDROXIDE (CAS 1310-73-2)	PEL	2 mg/m <sup>3</sup>	

**US. ACGIH Threshold Limit Values**

Components	Type	Value
ETHANOL (CAS 64-17-5)	STEL	1000 ppm
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m <sup>3</sup>

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
ETHANOL (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup>
		1000 ppm
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m <sup>3</sup>

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Applicable for industrial settings only. Wear safety glasses with side shields (or goggles) and a face shield.

**Skin protection****Hand protection**

Applicable for industrial settings only. Wear appropriate chemical resistant gloves.

**Other**

Applicable for industrial settings only. Wear appropriate chemical resistant clothing.

<b>Respiratory protection</b>	Applicable for industrial settings only. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Serum
<b>Color</b>	Colorless
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	3.5 - 4.1
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	> 212 °F (> 100 °C)
<b>Flash point</b>	156.2 °F (69.0 °C) Closed Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Density</b>	1.06 g/cm <sup>3</sup>
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong acids. Strong oxidizing agents.

**Hazardous decomposition products** No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.  
**Skin contact** Causes skin irritation.  
**Eye contact** Causes serious eye damage.  
**Ingestion** Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Not known.

Product	Species	Test Results
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KIEHL'S GLYCOLIC ACID SIMPLE SERUM

**Acute**

**Oral**

ATEmix

19900 mg/kg

Components	Species	Test Results
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ETHANOL (CAS 64-17-5)

**Acute**

**Dermal**

LD50

Rabbit

> 20000 mg/kg

**Inhalation**

*Vapor*

LC50

Rat

124.7 mg/l, 4 h OECD 403

**Oral**

LD50

Rat

10470 mg/kg OECD 401

GLYCERIN (CAS 56-81-5)

**Acute**

**Dermal**

LD50

Rabbit

> 18700 mg/kg bw

**Inhalation**

LC50

Rat

> 570 mg/L air, 1 h

**Oral**

LD50

Rat

27200 mg/kg bw

GLYCOLIC ACID (CAS 79-14-1)

**Acute**

**Inhalation**

*Aerosolized dust*

LC50

Rat

3.6 mg/l, 4 h

**Oral**

LD50

Rat

1950 mg/kg

SODIUM HYDROXIDE (CAS 1310-73-2)

**Acute**

**Dermal**

LD50

Rabbit

1350 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

**Irritation Corrosion - Skin**

GLYCOLIC ACID

OECD 404

Result: Corrosive

Species: Rabbit

ETHANOL

OECD 404

Result: Not Irritating

Species: Rabbit

SODIUM HYDROXIDE

Result: Corrosive

Species: Rabbit

GLYCERIN

Result: Not Irritating

Species: Rabbit

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Irritation Corrosion - Eye**

GLYCOLIC ACID

OECD 405

Result: Corrosive

Species: Rabbit

SODIUM HYDROXIDE

OECD 405

Result: Corrosive

Species: Rabbit

ETHANOL

OECD 405

Result: Irritating

Species: Rabbit

GLYCERIN

Result: Not Irritating

Species: Rabbit

**Respiratory or skin sensitization****Respiratory sensitization**

Due to partial or complete lack of data the classification is not possible.

**Skin sensitization**

Due to partial or complete lack of data the classification is not possible.

**Skin sensitization**

GLYCERIN

167 mg/m3 air OECD 413, Inhalation

Result: NOAEL

Species: Rat

Test Duration: 90 d

ETHANOL

OECD 406

Result: Not Sensitizing

Species: Guinea pig

GLYCOLIC ACID

OECD 406

Result: Not Sensitizing

Species: Guinea pig

GLYCERIN

Result: Not Sensitizing

Species: Guinea pig

SODIUM HYDROXIDE

Result: Not Sensitizing

Species: Human

**Germ cell mutagenicity**

Due to partial or complete lack of data the classification is not possible.

**Mutagenicity**

ETHANOL

Result: In vitro and in vivo tests did not show mutagenic effects.

GLYCERIN

Result: In vitro and in vivo tests did not show mutagenic effects.

GLYCOLIC ACID

Result: In vitro and in vivo tests did not show mutagenic effects.

SODIUM HYDROXIDE

Result: In vitro and in vivo tests did not show mutagenic effects.

**Carcinogenicity**

Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the classification is not possible.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity**

Possible reproductive hazard.

**Developmental effects**

ETHANOL	> 20000 ppm OECD 414, No effects on development Result: NOAEL Species: Rat
GLYCERIN	1310 mg/kg bw/d, No effects on development Result: NOAEL Species: Rat
GLYCOLIC ACID	150 mg/kg bw/d OECD 414 Result: NOAEL Species: Rat

**Reproductivity**

GLYCERIN	2000 mg/kg bw/d, No effects on fertility Result: NOAEL Species: Rat
ETHANOL	20700 mg/kg bw/d OECD 416, No effects on fertility Result: NOAEL Species: Rat
GLYCOLIC ACID	600 mg/kg bw/d OECD 415 Result: NOAEL Species: Rat

**Specific target organ toxicity - single exposure** Due to partial or complete lack of data the classification is not possible.

**Specific target organ toxicity - repeated exposure** Due to partial or complete lack of data the classification is not possible.

GLYCOLIC ACID	150 mg/kg bw/d OECD 408 Result: NOAEL Species: Rat Test Duration: 90 d
ETHANOL	1730 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat
GLYCERIN	8000 mg/kg bw/d, Oral Result: NOAEL Species: Rat Test Duration: 2 yr

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

**Further information** The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

**12. Ecological information**

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
ETHANOL (CAS 64-17-5)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	22200 mg/l, 96 h
Crustacea	EC50	Ceriodaphnia dubia	5012 mg/l, 48 h
Fish	LC50	Pimephales promelas	15300 mg/l, 96 h
Other	IC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	9.6 mg/l, 9 d
Fish	NOEC	Danio rerio	250 mg/l, 120 h OECD 212
GLYCERIN (CAS 56-81-5)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC0	Scenedesmus quadricauda	> 10000 mg/l, 192 h
Crustacea	EC50	Daphnia magna	1955 mg/l, 48 h

Components		Species	Test Results
Fish	LC50	Oncorhynchus mykiss	54000 mg/l, 96 h
Other	NOEC	Pseudomonas putida	> 10000 mg/l, 16 h
<b>GLYCOLIC ACID (CAS 79-14-1)</b>			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	44 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	141 mg/l, 48 h OECD 202
Fish	LC50	Pimephales promelas	164 mg/l, 96 h
Other	EC50	Activated sludge of a predominantly domestic sewage	> 100 mg/l, 3 h OECD 209
<b>SODIUM HYDROXIDE (CAS 1310-73-2)</b>			
<b>Aquatic</b>			
Fish	LC50	Western mosquitofish (Gambusia affinis)	125 mg/l, 96 hours
<i>Acute</i>			
Crustacea	EC50	Ceriodaphnia dubia	40 mg/l, 48 h
Fish	LC50	Leuciscus idus	189 mg/l, 48 h
Other	EC50	Photobacterium phosphoreum	22 mg/l, 15 min

### Persistence and degradability

#### Biodegradability

##### Percent degradation (Aerobic biodegradation)

ETHANOL	84 % Result: Readily Biodegradable Test Duration: 20 d OECD 301
GLYCERIN	Result: Readily Biodegradable
GLYCOLIC ACID	89.6 % OECD 301 D Result: Readily Biodegradable Test Duration: 28 d

#### Bioaccumulative potential

##### Partition coefficient n-octanol / water (log Kow)

ETHANOL	-0.31
GLYCERIN	-1.76
GLYCOLIC ACID	-1.11

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

### DOT

#### FINISHED GOODS

Not regulated as dangerous goods.

#### BULK

<b>UN number</b>	NA1993
<b>UN proper shipping name</b>	COMBUSTIBLE LIQUID, N.O.S. (ETHANOL)

**Class** COMB LIQ  
**Packing group** III  
**Transport hazard class(es)**  
**Label(s)** None  
**Special provisions** IB3, T1, T4, TP1  
**Packaging non bulk** 203

Materials classified as combustible liquids are only regulated for transport when offered in bulk packaging (>119 gallons).

#### **IATA**

##### **FINISHED GOODS**

Not regulated as dangerous goods.

##### **BULK**

Not regulated as dangerous goods.

#### **IMDG**

##### **FINISHED GOODS**

Not regulated as dangerous goods.

##### **BULK**

Not regulated as dangerous goods.

## **15. Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **Toxic Substances Control Act (TSCA)**

##### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

ETHANOL (CAS 64-17-5) Listed.

SODIUM HYDROXIDE (CAS 1310-73-2) Listed.

#### **SARA 304 Emergency release notification**

Not regulated.

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

##### **SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No (Exempt)

##### **SARA 313 (TRI reporting)**

Not regulated.

#### **Other federal regulations**

##### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

##### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

##### **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

ETHANOL (CAS 64-17-5) Low priority

GLYCERIN (CAS 56-81-5) Other Flavoring Substances with OSHA PEL's

## **16. Other information, including date of preparation or last revision**

**Issue date** 11-05-2021

**Version #** 01

**NFPA ratings** Health: 3  
Flammability: 2  
Instability: 0

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.