

1. Identification

Product identifier KIEHL'S DERMATOLOGIST SOLUTIONS RETINOL SKIN-RENEWING DAILY MICRO-DOSE TREATMENT

Other means of identification

SDS number 00-51-0001289

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 Not classified.

Health hazards Serious eye damage/eye irritation Category 2A
Sensitization, skin Category 1
Reproductive toxicity Category 1B

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility or the unborn child.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/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. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage	Store locked up.
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

Chemical name	Common name and synonyms	CAS number	%
GLYCERIN		56-81-5	≤ 8
PENTYLENE GLYCOL		5343-92-0	< 3
NIACINAMIDE		98-92-0	≤ 2
ISOHEXADECANE		4390-04-9	≤ 1
RETINOL		68-26-8	≤ 0.1

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

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	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 if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. 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

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: 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**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Keep out of the reach of children. 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
GLYCERIN (CAS 56-81-5)	PEL	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.

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.

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

Applicable for industrial settings only. Chemical respirator with organic vapor cartridge and full facepiece.

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. Use of an impervious apron is recommended.

Respiratory protection

Applicable for industrial settings only. Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. 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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties**Appearance****Physical state**

Liquid.

Form

Cream.

Color

White

Odor

Not available.

Odor threshold

Not available.

pH

6.1

Melting point/freezing point

Not available.

Initial boiling point and boiling range

> 212 °F (> 100 °C)

Flash point	> 212.0 °F (> 100.0 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1 g/cm ³
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	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	May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
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. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Not known.

Product	Species	Test Results
KIEHL'S DERMATOLOGIST SOLUTIONS RETINOL SKIN-RENEWING DAILY MICRO-DOSE TREATMENT		
<u>Acute</u>		
Dermal		
ATEmix		1.22e+006 mg/kg

Product	Species	Test Results
Inhalation		
<i>Vapor</i>		
ATEmix		1100 mg/l
Oral		
ATEmix		76450 mg/kg

Components	Species	Test Results
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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

ISOHEXADECANE (CAS 4390-04-9)

Acute

Dermal

LD50 Rat > 3160 mg/kg OECD 402

Inhalation

Aerosol

LC50 Rat 1.73 mg/l, 4 h OECD 403

Oral

LD50 Rat > 5000 mg/kg OECD 401

NIACINAMIDE (CAS 98-92-0)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg OECD 402

Inhalation

Aerosol

LC50 Rat > 3.8 mg/l, 4 h OECD 436

Oral

LD50 Rat > 2500 mg/kg OECD 423

PENTYLENE GLYCOL (CAS 5343-92-0)

Acute

Dermal

LD50 Rat > 2000 mg/kg bw OECD 402

Inhalation

LC50 Rat > 7015 mg/m3 air, 4 h OECD 403

Oral

LD50 Rat > 5000 mg/kg bw OECD 401

RETINOL (CAS 68-26-8)

Acute

Oral

LD50 Rat > 2000 mg/kg OECD 401

Skin corrosion/irritation

Due to partial or complete lack of data the classification is not possible. No adverse effects due to skin contact are expected.

Irritation Corrosion - Skin

ISOHEXADECANE

OECD 404
Result: Not Irritating
Species: Rabbit

Irritation Corrosion - Skin

NIACINAMIDE

OECD 404
Result: Not Irritating
Species: Rabbit

PENTYLENE GLYCOL

OECD 404
Result: Not Irritating
Species: Rabbit

RETINOL

OECD 404, Based on test data for structurally similar materials.

Result: Slightly Irritating

Species: Rabbit

GLYCERIN

Result: Not Irritating
Species: Rabbit**Serious eye damage/eye irritation**

Causes serious eye irritation.

Irritation Corrosion - Eye

PENTYLENE GLYCOL

OECD 405
Result: Corrosive
Species: Rabbit

NIACINAMIDE

OECD 405
Result: Irritating
Species: Rabbit

RETINOL

OECD 405
Result: Irritating
Species: Rabbit

ISOHEXADECANE

OECD 405
Result: Not 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

May cause an allergic skin reaction.

Skin sensitization

GLYCERIN

167 mg/m3 air OECD 413, Inhalation
Result: NOAEL
Species: Rat
Test Duration: 90 d

ISOHEXADECANE

OECD 406
Result: Not Sensitizing
Species: Guinea pig

NIACINAMIDE

OECD 406
Result: Not Sensitizing
Species: Guinea pig

PENTYLENE GLYCOL

OECD 406
Result: Not Sensitizing
Species: Guinea pig

RETINOL

OECD 406
Result: Sensitizing
Species: Guinea pig

GLYCERIN

Result: Not Sensitizing
Species: Guinea pig**Germ cell mutagenicity**

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

Mutagenicity

GLYCERIN

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

ISOHEXADECANE

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

NIACINAMIDE

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

RETINOL

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

PENTYLENE GLYCOL

Result: In vitro 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 May damage fertility or the unborn child.

Developmental effects

ISOHEXADECANE	> 5000 mg/kg bw/d OECD 414 Result: NOAEL Species: Rat
GLYCERIN	1310 mg/kg bw/d, No effects on development Result: NOAEL Species: Rat
RETINOL	4.1 mg/kg bw/d Result: NOAEL Species: Monkey
NIACINAMIDE	50 mg/kg bw/d OECD 414, No effects on development Result: NOAEL Species: Rabbit

Reproductivity

ISOHEXADECANE	>= 3000 mg/kg bw/d OECD 415 Result: NOAEL Species: Rat
GLYCERIN	2000 mg/kg bw/d, No effects on fertility 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.

ISOHEXADECANE	>= 5000 mg/kg bw/d OECD 408 Result: NOAEL Species: Rat Test Duration: 13 weeks
PENTYLENE GLYCOL	1000 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat Test Duration: 90 d
NIACINAMIDE	215 mg/kg bw/d OECD 407, Oral Result: NOAEL Species: Rat Test Duration: 28 d
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
GLYCERIN (CAS 56-81-5)		
Aquatic		
<i>Acute</i>		
Algae	EC0 Scenedesmus quadricauda	> 10000 mg/l, 192 h

Components		Species	Test Results
Crustacea	EC50	Daphnia magna	1955 mg/l, 48 h
Fish	LC50	Oncorhynchus mykiss	54000 mg/l, 96 h
Other	NOEC	Pseudomonas putida	> 10000 mg/l, 16 h
ISOHEXADECANE (CAS 4390-04-9)			
Aquatic			
<i>Acute</i>			
Algae	EL50	Skeletonema costatum	> 10000 mg/l, 72 h ISO 10253
Crustacea	LL50	Acartia tonsa	> 3193 mg/l, 48 h ISO 14669
Fish	LL50	Scophthalmus maximus	> 1028 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	> 100 mg/l, 3 h OECD 209
<i>Chronic</i>			
Fish	NOEC	Oncorhynchus mykiss	> 1000 mg/l, 28 d
NIACINAMIDE (CAS 98-92-0)			
Aquatic			
<i>Acute</i>			
Algae	IC50	Desmodesmus subspicatus	> 1000 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	> 1000 mg/l, 24 h OECD 202
Fish	LC50	Poecilia reticulata	> 1000 mg/l, 96 h OECD 203
Other	NOEC	Pseudomonas putida	4235 mg/l, 18 h OECD 209
PENTYLENE GLYCOL (CAS 5343-92-0)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	9335 mg/l, 72 h DIN 38412 Part 9
Crustacea	EC50	Daphnia magna	> 500 mg/l, 48 h EU79/831/EWG Ap.V,PartC
Fish	LC50	Danio rerio	> 1096 mg/l, 96 h OECD 203
Other	EC50	Pseudomonas putida	> 10000 mg/l, 17 h DIN 38412, Part 8
RETINOL (CAS 68-26-8)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	153 mg/l, 72 h DIN 38412, 9
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	> 10000 mg/l, 96 h DIN 38412, 15
Other	EC20	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h OECD 209

Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

GLYCERIN	OECD 301 Result: Readily Biodegradable
ISOHEXADECANE	74 % OECD 306 Result: Readily Biodegradable Test Duration: 28 d
NIACINAMIDE	96 % OECD 301 E Result: Readily Biodegradable Test Duration: 28 d
PENTYLENE GLYCOL	OECD 301 E Result: Readily biodegradable

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

GLYCERIN	-1.76
NIACINAMIDE	-0.38 OECD 107

Bioconcentration factor (BCF)

NIACINAMIDE

3.162

Bioaccumulation

NIACINAMIDE

Result: Bioaccumulation is unlikely.

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

Not regulated as dangerous goods.

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)

Not 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

GLYCERIN (CAS 56-81-5)

Other Flavoring Substances with OSHA PEL's

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

Issue date 08-04-2020

Version # 01

NFPA ratings Health: 2
Flammability: 1
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.