

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

SECTION 1. IDENTIFICATION

Product name : PUREOLOGY STRENGTH CURE SERUM

Manufacturer or supplier's details

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

Telephone : 1-732-499-2745

E-mail address : CORPREGAFFAIRSMSDS@LOREAL.COM

Emergency telephone

INFOTRAC : 1-800-535-5053 (International: +1 352-323-3500) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Recommended use of the chemical and restrictions on use

Recommended use : Personal care product used for cosmetic effect.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 3

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.

Precautionary Statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:
3.0844 %

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
ISODODECANE	13475-82-6	>= 30 - < 50
ALCOHOL	64-17-5	>= 5 - < 10
GLYCERIN	56-81-5	>= 5 - < 10
CITRIC ACID	77-92-9	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : Move to fresh air.
Call a physician if symptoms develop or persist.

In case of skin contact : Get medical attention if irritation develops and persists.

In case of eye contact : Rinse with water.
If eye irritation persists, consult a specialist.

If swallowed : Rinse mouth with water.
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known.
- Further information : For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
-

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Remove all sources of ignition.
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
-

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : For personal protection see section 8.
Provide sufficient air exchange and/or exhaust in work rooms.
Container may be opened only under exhaust ventilation hood.
Open drum carefully as content may be under pressure.
- Conditions for safe storage : No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
- Materials to avoid : Do not store near acids.
- Further information on storage : No decomposition if stored and applied as directed.
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SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

age stability

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ALCOHOL	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m ³	OSHA P0
GLYCERIN	56-81-5	TWA (mist, respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (mist, total dust)	15 mg/m ³	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m ³	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : Applicable for industrial settings only. Nitrile rubber

Eye protection : Applicable for industrial settings only.
Safety glasses

Skin and body protection : Applicable for industrial settings only.
Work uniform or laboratory coat.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Form : gel

Odor : characteristic

pH : 3.5 - 4.5

Melting point/freezing point : No data available

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

Boiling point/boiling range : Not available

Flash point : 95.0 °F / 35.0 °C
Method: ISO 3679

Fire Point : Not applicable

Upper explosion limit / Upper flammability limit : 19 %(V)
(for a component of this mixture)

Lower explosion limit / Lower flammability limit : 3.3 %(V)
(for a component of this mixture)

Vapor pressure : 59.5 hPa
(for a component of this mixture)

Relative vapor density : No data available

Relative density : 0.877 - 0.883 (68 °F / 20 °C)

Partition coefficient: n-octanol/water : Not applicable

Autoignition temperature : 689 °F / 365 °C
(for a component of this mixture)

Decomposition temperature : Not applicable

Viscosity
Viscosity, kinematic : > 20.5 mm²/s (104 °F / 40 °C)

Dust explosion class : Not applicable

Particle size : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.
Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Not applicable

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

Components:

ISODODECANE:

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50 (Rat, male and female): 4.951 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit, male and female): 2,200 - 2,500 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

ALCOHOL:

- Acute oral toxicity : LD50 (Rat, male and female): 10,470 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50 (Rat, male and female): 124.7 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit): 17,100 mg/kg
Remarks: Based on data from similar materials

CITRIC ACID:

- Acute oral toxicity : LD50 (Mouse, male and female): 5,400 mg/kg
Method: OECD Test Guideline 401
- Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Components:

ISODODECANE:

- Species : Rabbit

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

Method : OECD Test Guideline 404
Result : Mild skin irritation

ALCOHOL:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

CITRIC ACID:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

ISODODECANE:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

ALCOHOL:

Species : Rabbit
Result : Eye irritation

CITRIC ACID:

Species : Rabbit
Result : Eye irritation
Method : OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

ISODODECANE:

Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitization.

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

ALCOHOL:

Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitization.
Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

ISODODECANE:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

ALCOHOL:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

CITRIC ACID:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

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.

Reproductive toxicity

Not classified based on available information.

Components:

ISODODECANE:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

ALCOHOL:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

CITRIC ACID:

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

STOT-single exposure

Not classified based on available information.

Components:

CITRIC ACID:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Components:

ISODODECANE:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

ALCOHOL:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

CITRIC ACID:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

Not classified based on available information.

Components:

ISODODECANE:

May be fatal if swallowed and enters airways.

Further information

Product:

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

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

ISODODECANE:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0.0028 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility.
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- NOELR (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : EC10 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l
Exposure time: 60 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): > 10.2 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
- Toxicity to microorganisms : EC10 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Ecotoxicology Assessment

- Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

ALCOHOL:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 12,900 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 2,012 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (algae): 5,967 mg/l
Exposure time: 168 h
Method: OPPTS 850.4400

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 250 mg/l
Exposure time: 5 d
Method: OECD Test Guideline 212

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 9.6 mg/l
Exposure time: 10 d

Toxicity to microorganisms : IC50 (activated sludge): 5,800 mg/l
Exposure time: 16 h

CITRIC ACID:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,535 mg/l
Exposure time: 24 h

Toxicity to algae/aquatic plants : NOELR (Scenedesmus quadricauda (Green algae)): 425 mg/l
Exposure time: 192 h

Persistence and degradability

Components:

ISODODECANE:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 71 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

ALCOHOL:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 84 %
Exposure time: 20 d

GLYCERIN:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 1 d

CITRIC ACID:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 97 %
Exposure time: 30 d
Method: OECD Test Guideline 301D

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

Bioaccumulative potential

Components:

ISODODECANE:

Bioaccumulation : Bioconcentration factor (BCF): 315 - 1,021.68

Partition coefficient: n-octanol/water : log Pow: 5.94 - 6.16
pH: 7

ALCOHOL:

Bioaccumulation : Bioconcentration factor (BCF): 4.50

Partition coefficient: n-octanol/water : log Pow: 0.35
pH: 7.4
Method: OECD Test Guideline 107

GLYCERIN:

Partition coefficient: n-octanol/water : log Pow: -1.75
pH: 7.4
Method: OECD Test Guideline 107

CITRIC ACID:

Bioaccumulation : Bioconcentration factor (BCF): 3.20

Partition coefficient: n-octanol/water : log Pow: -1.6

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste Code : D001: Ignitability

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Send to a licensed waste management company.

Contaminated packaging : Dispose of as unused product.
Do not reuse empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

49 CFR

UN/ID/NA number : UN 1993
Proper shipping name : Flammable liquids, n.o.s.
(Ethanol, Isododecane)
Class : 3
Packing group : III
Labels : FLAMMABLE LIQUID
ERG Code : 128
Marine pollutant : no

International Regulations

IATA-DGR

UN/ID No. : UN 1993
Proper shipping name : Flammable liquid, n.o.s.
(Ethanol, Isododecane)
Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(ETHANOL, ISODODECANE)
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

A characteristic waste RQ of 100 lbs applies to this product in a waste form: D001

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version Revision Date: SDS Number: Date of last issue: -
1.0 10/05/2023 30-19- Date of first issue: 10/05/2023
400000006326

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

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.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

DIPROPYLENE	25265-71-8	>= 10 - < 20 %
GLYCOL		
ALCOHOL	64-17-5	>= 5 - < 10 %
GLYCERIN	56-81-5	>= 5 - < 10 %

SECTION 16. OTHER INFORMATION

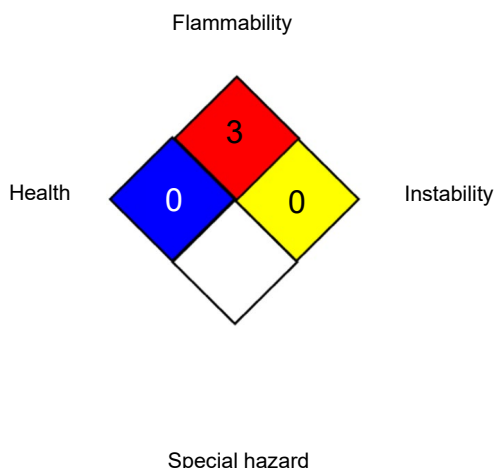
Further information

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version 1.0 Revision Date: 10/05/2023 SDS Number: 30-19-400000006326 Date of last issue: -
Date of first issue: 10/05/2023

NFPA 704:



HMIS® IV:

HEALTH	/	1
FLAMMABILITY		3
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC

SAFETY DATA SHEET

PUREOLOGY STRENGTH CURE SERUM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	10/05/2023	30-19- 400000006326	Date of first issue: 10/05/2023

- No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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.

Revision Date : 10/05/2023

US / EN