

Material Safety Data Sheet



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Version 1

1. PRODUCT AND COMPANY INFORMATION

Product ID:	96322873_NA
Product Name	NIOXIN Minoxidil Topical Solution USP 2% Hair Regrowth Treatment for Women
Product Type	Finished Product - Consumer (Retail) and Professional Use
Recommended Use	Personal Beauty Care Product
Synonyms	No information available
Manufacturer	The Procter & Gamble Company Sharon Woods Innovation Center 11510 Reed Hartman Highway Cincinnati OH 45241
E-mail Address	pgsds.im@pg.com
Emergency Telephone	Transportation (24 HR) CHEMTREC - 1-800-424-9300 (U.S./ Canada) or 1-703-527-3887 Mexico toll free in country: 800-681-9531

2. HAZARDS IDENTIFICATION

Emergency Overview

Flammable

OSHA regulatory status	Consumer Products as defined by the U.S. Consumer Product Safety Act which are used as intended (typical consumer duration and frequency) are exempt from the OSHA Hazard Communication Standard. When used in a professional setting (at a much higher frequency and duration than a typical consumer) this material would be considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
WHMIS	Not subject to WHMIS classification.
Principle routes of exposure	None reasonably foreseeable.
General hazards	This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical Name	CAS-No	Weight %
Ethanol	64-17-5	30 - 60
Propylene glycol	57-55-6	10 - 30
2,4-Pyrimidinediamine, 6-(1-piperidinyl)-, 3-oxide	38304-91-5	1 - 5

4. FIRST AID MEASURES

General advice	No hazards which require special first aid measures. When symptoms persist or in all cases of doubt seek medical advice.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. If symptoms persist, call a physician.
Skin contact	If skin problems occur, discontinue use. If symptoms persist, call a physician.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician.
Inhalation	Move to fresh air.
Protection of first-aiders	Use personal protective equipment. Remove all sources of ignition.
Most important symptoms/effects, acute and delayed	None known.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable properties	Flammable liquid.
Flash point	$\leq 22\text{ }^{\circ}\text{C}$ / $\leq 72\text{ }^{\circ}\text{F}$
Suitable extinguishing media	Dry chemical, CO_2 , water spray or alcohol-resistant foam.
Extinguishing media which shall not be used for safety reasons	No information available.
Special hazard	The release of the following substances is possible in a fire: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Nitrous oxides. May form explosive mixtures with air.
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	None under normal use conditions.
Advice for emergency responders	Use personal protective equipment.

Environmental precautions	Household: Do not discharge product into natural waters without pre-treatment or adequate dilution. Non-household: Should not be released into the environment.
Methods for containment	Non-household: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for cleaning up	Non-household: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use non-sparking tools and equipment. 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).

7. HANDLING AND STORAGE

Advice on safe handling	Keep out of the reach of children. Observe label precautions. Keep away from open flames, hot surfaces and sources of ignition.
Technical measures/Storage conditions	Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL	
Ethanol	64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m³	Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m³	
Chemical Name	CAS-No	Alberta	Quebec	Ontario TWA EV	British Columbia
Ethanol	64-17-5	TWA: 1000 ppm TWA: 1880 mg/m³	TWA: 1000 ppm TWA: 1880 mg/m³	STEL: 1000 ppm	STEL: 1000 ppm
Propylene glycol	57-55-6			TWA: 10 mg/m³ TWA: 50 ppm TWA: 155 mg/m³	

Legend:

TLV - Threshold Limit Value
TWA EV - Time Weighted Average Exposure Value
ACGIH: (American Conference of Governmental Industrial Hygienists)
OSHA: (Occupational Safety & Health Administration)
PEL - Permissible Exposure Limit

Engineering Measures	Not applicable.
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Personal Protective Equipment

Eye Protection	No special protective equipment required.
Hand Protection	No special protective equipment required.
Skin and Body Protection	No special protective equipment required.
Respiratory Protection	No special protective equipment required.
Thermal hazards	Not applicable.
Hygiene measures	None under normal use conditions.
Environmental exposure controls	See section 6 for more information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C

liquid

Appearance

clear.

Odor

Alcohol

Property

Values

Note

pH value

No information available

Melting/freezing point

-114 °C / -173 °F

Boiling point/boiling range

78 °C / 172 °F

Flash point

<= 22 °C / <= 72 °F

Evaporation rate

No information available

flammability (solid, gas)

No information available

Flammability Limits in Air

Upper flammability limit

No information available

Lower Flammability Limit

No information available

Vapor pressure

No information available

Vapor density

No information available

Relative density

No information available

Water solubility

No information available

Solubility in other solvents

No information available

Partition coefficient: n-octanol/water No information available

Autoignition temperature

No information available

Decomposition temperature

No information available

Viscosity of Product

No information available

Bulk Density

No information available

Chemical Name	Partition Coefficient (n-octanol/water)
Ethanol	-0.35
Propylene glycol	-1.07

VOC Content (%)

Products comply with US state and federal regulations for VOC content in consumer products.

Oxidizing properties

No information available

10. STABILITY AND REACTIVITY

Reactivity

None under normal use conditions.

Stability

Stable under normal conditions.

Hazardous polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition. Extremes of temperature and direct sunlight.

Materials to avoid

None in particular.

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity

Inhalation No known effect based on information supplied.
Skin contact No known effect based on information supplied.
Ingestion No known effect based on information supplied.
Eye contact No known effect based on information supplied.

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	64-17-5	10470 mg/kg bw (OECD 401; standard acute method; rat)	> 15800 mg/kg bw (Rabbit)	116.9 mg/L air (Similar to OECD 403; standard acute method; rat; 4 h)
Propylene glycol	57-55-6	22000 mg/kg (rat)	> 2000 mg/kg bw (Guideline not indicated; fixed dose procedure; rabbit)	> 317.042 mg/L (Guideline not indicated; rabbit; 2 h)

Chronic Toxicity

Corrosivity No known effect.
Sensitization No known effect.
Neurological Effects No known effect.
Reproductive toxicity The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.
Germ cell mutagenicity There are no known mutagenic chemicals in this product.
Developmental toxicity No known effect.
Teratogenicity No known effect.
Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	CAS-No	Toxicity to algae	Toxicity to fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates	Toxicity to other organisms
Ethanol	64-17-5	275 mg/L (Similar to OECD 201; Chlorella vulgaris; static; freshwater; growth rate)	14200 mg/L (US EPA method E03-05; Pimephales promelas; flow-through; freshwater)	IC50: > 1000 mg/L (OECD 209; activated sludge from domestic and industrial sewage treatment plants; static; freshwater)	5012 mg/L (Guideline: ASTM E729-80; Ceriodaphnia dubia; static; freshwater)	> 100 mg/L (Guideline not indicated; Lumbriculus variegatus; static; freshwater; 96 h)
Propylene glycol	57-55-6	19300 (OECD 201; Skeletonema costatum; static; saltwater; growth rate)	40613 mg/L (Guideline: Environment Canada (1990); Oncorhynchus mykiss; static; freshwater)	-	18800 mg/L (Guideline: US EPA FIFRA 72-3 (TSCA 797.1950); Americamysis bahia; static; saltwater; mortality)	6983 mg/kg sediment dw (Guideline: OSPARCOM guidelines; Corophium volutator; short-term toxicity; static; saltwater; 10 d)
Chemical Name	CAS-No	Toxicity to algae	Toxicity to fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates	Toxicity to other organisms
Ethanol	64-17-5		7900 mg/L (Read across data on Methanol; guideline not indicated; Oryzias latipes; static; freshwater)		2 mg/L (Guideline not indicated; Ceriodaphnia dubia; semi-static; freshwater)	> 79 mg/L (Guideline not indicated; Rana temporaria; static; freshwater; 48 h)
Propylene glycol	57-55-6	< 5300 mg/L (OECD 201; Skeletonema costatum; static; saltwater; growth rate)		NOEC: > 20000 mg/L (Guideline not indicated; Pseudomonas putida; freshwater; 18 h)	13020 mg/L (EPA 600/4-89/001; Ceriodaphnia sp.; semi-static; freshwater)	1368.77 mg/kg sediment dw (Guideline: OSPARCOM guidelines; Corophium volutator; short-term toxicity; static; saltwater; 10 d)

Persistence and degradability

Chemical Name	Ready Test Results	Persistence and degradability
Ethanol	84 % (Guideline not indicated; aerobic; sewage, domestic, non-adapted; O2 consumption; 20 d; meets 10-d window criterion)	83 % (Read across data on Methanol; guideline not indicated; anaerobic; natural water / sediment; 3 d)
Propylene glycol	81.7 % (OECD 301 F; aerobic; activated sludge, domestic (adaptation not specified); CO2 evolution; meets 10-d window criterion)	95.8 % (OECD 306; aerobic; natural water; DOC removal; 64 d)

Bioaccumulative potential

Chemical Name	Bioconcentration factor (BCF)
Ethanol	< 10
Propylene glycol	0.09 (Calculated value)

Mobility

Chemical Name	KOC Values
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Ethanol	1 (Read across data on Methanol; calculated value (PCKOCWIN v1.66 calculation, EPA for EPI suite, 2000); adsorption; soil)
Propylene glycol	2.9 (Calculated value; TGD (non-hydrophobics) method)

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products **Household:** Do not discharge product into natural waters without pre-treatment or adequate dilution. **Non-household:** Should not be released into the environment. Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

California Hazardous Waste Codes (non-household setting) 331

Other disposal recommendations **Non-household:** Products covered by this MSDS, in their original form, when disposed from a commercial facility as waste, are ignitable hazardous waste, D001, according to Federal RCRA regulations(40 CFR 261). Disposal should be in accordance with Local, State and Federal regulations.

14. TRANSPORT INFORMATION

DOT

UN/ID no UN1170
Proper shipping name Ethanol solution
Hazard Class 3
Packing Group II
Description UN1170, Ethanol solution, 3, II, Ltd. Qty.
Emergency Response Guide Number 127

TDG

UN/ID no UN1170
Proper shipping name ETHANOL SOLUTION
Hazard Class 3
Packing Group II
Description UN1170, Ethanol solution, 3, II, Ltd. Qty.

MEX

UN/ID no UN1170
Proper shipping name Ethanol in solution
Hazard Class 3
Packing Group II
Description UN1170, Ethanol in solution, 3, II, Ltd. Qty.

IATA

UN/ID no UN1170
Proper shipping name ETHANOL SOLUTION
Hazard Class 3
Packing Group II
ERG Code 3L
Description UN1170, Ethanol solution, 3, II, Ltd. Qty.

IATA comment Can also be shipped as ID8000 Consumer Commodity

ICAO

UN/ID no UN1170
Proper shipping name ETHANOL SOLUTION
Hazard Class 3

Packing Group II
Description UN1170, Ethanol solution, 3, II, Ltd. Qty.
ICAO Comment Can also be shipped as ID8000 Consumer Commodity

IMDG

UN/ID no UN1170
Proper shipping name ETHANOL SOLUTION
Hazard Class 3
Packing Group II
EmS-No F-E, S-D
Description UN1170, Ethanol solution, 3, II, (22°C c.c.), Ltd. Qty.

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Food and Drug Administration (FDA)

The product described in this Material Safety Data Sheet is regulated under the Federal Food, Drug, and Cosmetics Act and is safe to use as per directions on container, box or accompanying literature (where applicable).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

U.S. State Regulations (RTK)

Chemical Name	New Jersey
Ethanol	X
Propylene glycol	X

Chemical Name	Massachusetts
Ethanol	X

Chemical Name	Pennsylvania
Ethanol	X
Propylene glycol	X

California Proposition 65

This product is not subject to warning labeling under California Proposition 65.

International Regulations

Canada

WHMIS Hazard Class

Not subject to WHMIS classification.

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR. This product is regulated by the Food and Drug Administration of Health Canada and is therefore exempt from the requirements of CEPA.

International Inventories

TSCA

Product is a personal care product and regulated under FDA.

CEPA

P&G Canadian Regulatory reviewed finished products to ensure CEPA Compliance.

Perfumes contained with the products comply with appropriate IFRA guidance.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

CEPA - Canadian Environmental Protection Act

16. OTHER INFORMATION

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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

End of MSDS