Material Safety Data Sheet



Issuing Date: 26-Apr-2012 Revision Date: 26-Apr-2012 Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product ID: 92061445

Product Name Nioxin Cleanser System

Recommended use Personal Beauty Care Product

Uses advised against All other uses

Synonyms Nioxin Cleanser System 1 (92061445) * Nioxin Cleanser 2 (92061451) * Nioxin Cleanser 3

(99426531) * Nioxin Cleanser 4 (92046875) * Nioxin Cleanser 5 (99473379) * Nioxin

Cleanser 6 (99473380)

Manufacturer The Procter & Gamble Company

Sharon Woods Technical Center 11510 Reed Hartman Highway

Cincinnati OH 45202.

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: 01-800-681-9531.

2. HAZARDS IDENTIFICATION

Emergency Overview

Irritating to eyes

OSHA Regulatory Status This material is not considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200)

WHMIS Not subject to WHMIS classification

Principle Routes of Exposure Eye contact. Skin contact.

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

Chemical Name	CAS-No	Weight %
Poly(oxy-1,2-ethanediyl),	9004-82-4	5 - 10
alpha-sulfo-omega-(dodecyloxy)-, sodium salt (1:1)		
Sulfuric acid monododecyl ester sodium salt (1:1)	151-21-3	3 - 7
1-Propanaminium,	61789-40-0	1 - 5
3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco		
acyl derivs., inner salts		
Citric acid	77-92-9	1 - 5
Laureth-3	3055-94-5	0.1 - 1
Sodium hydroxide (Na(OH))	1310-73-2	0.1 - 1
Mentha Arvensis Oil	68917-18-0	0.1 - 1
1,2,3-Propanetriol	56-81-5	< 0.1

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. If

symptoms persist, call a physician. Remove contact lenses, if present, after the first 5

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minutes, then continue rinsing.

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.

Inhalation Not an expected route of exposure.

Protection of First-aidersUse personal protective equipment.

Most important symptoms/effects,

acute and delayed

None known.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point Not applicable

Suitable Extinguishing Media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Special Hazard None in particular

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautionsNone under normal use conditions.

Advice for emergency responders Use personal protective equipment.

Environmental precautions Should not be released into the environment.

Methods for Containment No information available.

Methods for Cleaning up No information available.

7. HANDLING AND STORAGE

Advice on safe handling Keep out of the reach of children. Observe label precautions.

Technical measures/Storage

conditions

Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated

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place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
Sodium hydroxide (Na(OH))	Ceiling: 2 mg/m ³	TWA: 2 mg/m³ (vacated) Ceiling: 2 mg/m³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³	Mexico: Ceiling 2 mg/m ³
1,2,3-Propanetriol	TWA: 10 mg/m³ mist	TWA: 15 mg/m³ mist, total particulate TWA: 5 mg/m³ mist, respirable fraction (vacated) TWA: 10 mg/m³ mist, total particulate (vacated) TWA: 5 mg/m³ mist, respirable fraction		Mexico: TWA 10 mg/m ³
Chemical Name	British Columbia	Alberta	Quebec	Ontario TWAEV
Sodium hydroxide (Na(OH))	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	CEV: 2 mg/m ³
1,2,3-Propanetriol	TWA: 10 mg/m³ TWA: 3 mg/m³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³

Engineering Measures Not applicable

Personal Protective Equipment

Eye Protection No special protective equipment required.

Hand Protection No special protective equipment required.

Skin and body protectionNo special protective equipment required.

Thermal hazards Not applicable.

Hygiene measures Avoid contact with skin, eyes and clothing.

Environmental Exposure Controls No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C liquid

Appearance viscous liquid

blue (cleansers 1 -4) clear (cleansers 5, 6)

Odor Mint-like, Fruity

Property Values Note pH VALÚE 4.6 - 5.2 Melting/freezing point Not applicable 100 °C Boiling point/boiling range Flash Point Not applicable **Evaporation rate** No information available Flammability (solid, gas) No information available Flammability Limits in Air No information available upper flammability limit lower flammability limit No information available Vapor pressure No information available Vapor density Not applicable

 Vapor density
 Not applicable

 Relative density
 1.0

 Water solubility
 Soluble in water

 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	logPow
Sulfuric acid monododecyl ester sodium salt (1:1)	1.6
Citric acid	-1.72 at 20 °C
Dodecanol (Alcohol C12)	5.36
1.2.3-Propanetriol	-1.76

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

products.

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 None under normal processing.

Materials to Avoid None in particular.

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

InhalationNo known effect based on information supplied.Skin contactNo known effect based on information supplied.IngestionNo known effect based on information supplied.

Eye contact Irritating to eyes.

Principle Routes of Exposure Eye contact. Skin contact.

Chronic Toxicity

CorrosivityNo known effect.SensitizationNo known effect.Neurological EffectsNo known effect.

Reproductive Toxicity

The product contains no substances known to be hazardous to health in concentrations

which need to be taken into account.

Mutagenic Effects There are no known mutagenic chemicals in this product.

Developmental ToxicityNo known effect. **Teratogenicity**No known effect.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates	Toxicity to other organisms
Sulfuric acid monododecyl ester sodium salt (1:1)	EC50 72 h = 53 mg/L Desmodesmus subspicatus EC50 96 h 30 - 100 mg/L Desmodesmus subspicatus EC50 96 h = 117 mg/L Pseudokirchneriella subcapitata EC50 96 h 3.59 - 15.6 mg/L Pseudokirchneriella subcapitata static	LC50 96 h 8 - 12.5 mg/L Pimephales promelas static LC50 96 h 15 - 18.9 mg/L Pimephales promelas static LC50 96 h 22.1 - 22.8 mg/L Pimephales promelas static LC50 96 h 4.3 - 8.5 mg/L Oncorhynchus mykiss static LC50 96 h = 4.62 mg/L Oncorhynchus mykiss flow-through LC50 96 h = 4.2 mg/L Oncorhynchus mykiss flow-through LC50 96 h = 7.97 mg/L Brachydanio rerio flow-through LC50 96 h 9.9 - 20.1 mg/L Brachydanio rerio semi-static LC50 96 h 4.06 - 5.75 mg/L Lepomis macrochirus static LC50 96 h 4.2 - 4.8 mg/L Lepomis macrochirus flow-through LC50 96 h 5.8 - 7.5 mg/L Pimephales promelas static LC50 96 h 5.8 - 7.5 mg/L Pimephales promelas static LC50 96 h 6.2 - 9.6 mg/L Pimephales promelas LC50 96 h 10.2 - 22.5 mg/L Pimephales promelas LC50 96 h 13.5 - 18.3 mg/L Poecilia reticulata semi-static LC50 96 h 10.8 - 16.6 mg/L Poecilia reticulata static LC50 96 h = 1.31 mg/L Cyprinus carpio semi-static		EC50 48 h = 1.8 mg/L Daphnia magna = 53 mg/L EC50 30 - 100 mg/L EC50 = 117 mg/L EC50 3.59 - 15.6 mg/L EC50	-
1-Propanaminium, 3-amino-N-(carboxymethyl)- N,N-dimethyl-, N-coco acyl derivs., inner salts	EC50 72 h 1.0 - 10.0 mg/L Desmodesmus subspicatus EC50 96 h = 0.55 mg/L Desmodesmus subspicatus	LC50 96 h 1.0 - 10.0 mg/L Brachydanio rerio LC50 96 h = 2 mg/L Brachydanio rerio semi-static	-	EC50 48 h = 6.5 mg/L Daphnia magna 1.0 - 10.0 mg/L EC50 = 0.55 mg/L EC50	-
Citric acid	-	LC50 96 h = 1516 mg/L Lepomis macrochirus static	-	EC50 72 h = 120 mg/L Daphnia magna	-

Sodium hydroxide (Na(OH))	-	LC50 96 h = 45.4 mg/L Oncorhynchus mykiss static		-	-
Dodecanol (Alcohol C12)	EC50 96 h = 0.62 mg/L Desmodesmus subspicatus	LC50 96 h = 1.01 mg/L Pimephales promelas flow-through LC50 96 h = 0.1855 mg/L Pimephales promelas		EC50 48 h = 320 mg/L Daphnia magna = 0.62 mg/L EC50	-
1,2,3-Propanetriol	-	LC50 96 h 51 - 57 mL/L Oncorhynchus mykiss static	-	EC50 24 h > 500 mg/L Daphnia magna	-

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Mobility No information available.

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

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adequate dilution.

Contaminated packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

IATA Not regulated

ICAO Not regulated

IMDG/IMO Not regulated

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 no

Sudden Release of Pressure Hazard no Reactive Hazard no

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hydroxide (Na(OH))	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide (Na(OH))	1000 lb	-	-	Х

U.S. State Regulations

California Proposition 65

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

U.S. State Regulations

Chemical Name	Pennsylvania
Sulfuric acid sodium salt (1:2)	X
Sodium hydroxide (Na(OH))	X

International Regulations

Canada

WHMIS Hazard Class

Not subject to WHMIS classification

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 Exempt
DSL Exempt
NDSL Exempt

Perfumes contained with the products comply with appropriate IFRA guidance.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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

Material Safety Data Sheet



Issuing Date: 06-Jun-2012 Revision Date: 06-Jun-2012 Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product ID: 92245785

Product Name Nioxin Scalp Therapy 1

Recommended use Personal Beauty Care Product

Uses advised against All other uses

Synonyms System 1 Conditioner

Manufacturer The Procter & Gamble Company

Sharon Woods Innovation Center 11510 Reed Hartman Highway

Cincinnati OH 45202

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: 01-800-681-9531

2. HAZARDS IDENTIFICATION

Emergency Overview

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

WHMIS Not subject to WHMIS classification

Principle Routes of Exposure Skin contact. Eye contact.

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

Chemical Name	CAS-No	Weight %
Octadecanamide, N-[3-(dimethylamino)propyl]-	7651-02-7	1 - 5
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides	61789-80-8	0.1 - 1
Mentha Arvensis Oil	68917-18-0	0.1 - 1
glycerol 1-stearate	123-94-4	0.1 - 1

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. If

symptoms persist, call a physician. Remove contact lenses, if present, after the first 5

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minutes, then continue rinsing.

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.

Inhalation Not an expected route of exposure.

Protection of First-aidersUse personal protective equipment.

Most important symptoms/effects,

acute and delayed

None known.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point No information available

Suitable Extinguishing Media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Special Hazard None in particular

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment.

Environmental precautions Should not be released into the environment.

Methods for Containment No information available.

Methods for Cleaning up No information available.

7. HANDLING AND STORAGE

Advice on safe handling Keep out of the reach of children. Observe label precautions.

Technical measures/Storage

conditions

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and

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well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
glycerol 1-stearate	TWA: 10 mg/m ³ except	-		-
	stearates of toxic metals			
Chemical Name	British Columbia	Alberta	Quebec	Ontario TWAEV
glycerol 1-stearate	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³

Engineering Measures Not applicable.

Personal Protective Equipment

Eye Protection No special protective equipment required.

Hand Protection No special protective equipment required.

Skin and body protectionNo special protective equipment required.

Thermal hazards Not applicable.

Hygiene measures None under normal use condtions.

Environmental Exposure Controls See Section 6.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C liquid

blue. viscous liquid. **Appearance**

Odor Mint-like

Property Values Note

pH VALÚE

Melting/freezing point No information available No information available Boiling point/boiling range No information available Flash Point **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 No information available Vapor pressure No information available Vapor density 0.96

Relative density

Water solubility No information available No information available Solubility in other solvents Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** No information available **Decomposition temperature** No information available

Viscosity of Product No information available **Bulk Density** No information available

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

products.

10. STABILITY AND REACTIVITY

Reactivity None under normal use conditions.

Stable under normal conditions. Stability

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

Conditions to Avoid None under normal processing.

Materials to Avoid None in particular.

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute Toxicity Product does not present an acute toxicity hazard based on known or supplied information.

Principle Routes of Exposure Skin contact. Eye contact.

InhalationNo known effect based on information supplied.Skin contactNo known effect based on information supplied.IngestionNo known effect based on information supplied.Eye contactNo known effect based on information supplied.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides		2000 mg/kg (Rat)	180 mg/L (Rat)1 h
, , , , , , , , , , , , , , , , ,		Falka (Bobbit)	
Mentha Arvensis Oil	1240 mg/kg (Rat)	5 g/kg(Rabbit)	-

Chronic Toxicity

CorrosivityNo known effect.SensitizationNo known effect.Neurological EffectsNo known effect.

Reproductive Toxicity

The product contains no substances known to be hazardous to health in concentrations

which need to be taken into account.

Mutagenic Effects There are no known mutagenic chemicals in this product.

Developmental Toxicity TeratogenicityNo known effect.
No known effect.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates	Toxicity to other organisms
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides	EC50 96 h = 0.1 mg/L Desmodesmus subspicatus EC50 72 h = 0.00046 mg/L Pseudokirchneriella subcapitata	LC50 96 h = 1.48 mg/L Brachydanio rerio static	-	EC50 48 h = 0.32 mg/L Daphnia magna = 0.1 mg/L EC50 = 0.00046 mg/L EC50	-

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Chemical Name	Bioconcentration factor (BCF)
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl,	13
chlorides	

Mobility No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused

Products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG

UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III,

MEX

UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s.

Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III,

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IATA

UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing Group III
ERG Code 9L

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III

ICAO

UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III,

IMDG/IMO

UN/ID No UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

 Hazard class
 9

 Packing Group
 III

 EmS No.
 F-A, S-F

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III,

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 no
Sudden Release of Pressure Hazard no
Reactive Hazard no

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Edetic acid	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Edetic acid	5000 lb	-	-	X

U.S. State Regulations

California Proposition 65

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

U.S. State Regulations

Chemical Name	Pennsylvania
Edetic acid	X

International Regulations

Canada

WHMIS Hazard Class

Not subject to WHMIS classification

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 Exempt
DSL Exempt
NDSL Exempt

Perfumes contained with the products comply with appropriate IFRA guidance.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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

Material Safety Data Sheet



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1. PRODUCT AND COMPANY IDENTIFICATION

Product ID: 92245783

Product Name Nioxin Scalp Therapy 2

Recommended use Personal Beauty Care Product

Uses advised against All other uses

Synonyms System 2 Conditioner

Manufacturer The Procter & Gamble Company

Sharon Woods Innovation Center 11510 Reed Hartman Highway

Cincinnati OH 45202

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: 01-800-681-9531

2. HAZARDS IDENTIFICATION

Emergency Overview

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

WHMIS Not subject to WHMIS classification

Principle Routes of Exposure Skin contact. Eye contact.

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

Chemical Name	CAS-No	Weight %
Octadecanamide, N-[3-(dimethylamino)propyl]-	7651-02-7	1 - 5
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides	61789-80-8	0.1 - 1
glycerol 1-stearate	123-94-4	0.1 - 1
Mentha Arvensis Oil	68917-18-0	0.1 - 1

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. If

symptoms persist, call a physician. Remove contact lenses, if present, after the first 5

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minutes, then continue rinsing.

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.

Inhalation Not an expected route of exposure.

Protection of First-aidersUse personal protective equipment.

Most important symptoms/effects,

acute and delayed

None known.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point No information available

Suitable Extinguishing Media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Special Hazard None in particular

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment.

Environmental precautions Should not be released into the environment.

Methods for Containment No information available.

Methods for Cleaning up No information available.

7. HANDLING AND STORAGE

Advice on safe handling Keep out of the reach of children. Observe label precautions.

Technical measures/Storage

conditions

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and

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well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
glycerol 1-stearate	TWA: 10 mg/m ³ except	-		-
	stearates of toxic metals			
Chemical Name	British Columbia	Alberta	Quebec	Ontario TWAEV
glycerol 1-stearate	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³

Engineering Measures Not applicable.

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.

Thermal hazards Not applicable.

Hygiene measures None under normal use condtions.

Environmental Exposure Controls See Section 6.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C liquid

viscous liquid. **Appearance** Odor Mint-like

Property Values Note

pH VALÚE Melting/freezing point No information available No information available Boiling point/boiling range No information available Flash Point

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 No information available Vapor pressure No information available Vapor density 0.96

Relative density

Water solubility No information available No information available Solubility in other solvents Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** No information available **Decomposition temperature** No information available

Viscosity of Product No information available **Bulk Density** No information available

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

products.

10. STABILITY AND REACTIVITY

Reactivity None under normal use conditions.

Stable under normal conditions. Stability

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

Conditions to Avoid None under normal processing.

Materials to Avoid None in particular.

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute Toxicity Product does not present an acute toxicity hazard based on known or supplied information.

Principle Routes of Exposure Skin contact. Eye contact.

InhalationNo known effect based on information supplied.Skin contactNo known effect based on information supplied.IngestionNo known effect based on information supplied.Eye contactNo known effect based on information supplied.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides		2000 mg/kg (Rat)	180 mg/L (Rat) 1 h
Mentha Arvensis Oil	1240 mg/kg (Rat)	5 g/kg(Rabbit)	-

Chronic Toxicity

CorrosivityNo known effect.SensitizationNo known effect.Neurological EffectsNo known effect.

Reproductive Toxicity

The product contains no substances known to be hazardous to health in concentrations

which need to be taken into account.

Mutagenic Effects There are no known mutagenic chemicals in this product.

Developmental Toxicity TeratogenicityNo known effect.
No known effect.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates	Toxicity to other organisms
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides	EC50 96 h = 0.1 mg/L Desmodesmus subspicatus EC50 72 h = 0.00046 mg/L Pseudokirchneriella subcapitata	LC50 96 h = 1.48 mg/L Brachydanio rerio static	-	EC50 48 h = 0.32 mg/L Daphnia magna = 0.1 mg/L EC50 = 0.00046 mg/L EC50	-

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Chemical Name	Bioconcentration factor (BCF)
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl,	13
chlorides	

Mobility No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused

Products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG

UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III,

MEX

UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s.

Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III,

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IATA

UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class9Packing GroupIIIERG Code9L

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III

ICAO

UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III,

IMDG/IMO

UN/ID No UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

 Hazard class
 9

 Packing Group
 III

 EmS No.
 F-A, S-F

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III,

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 no
Sudden Release of Pressure Hazard no
Reactive Hazard no

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Edetic acid	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Edetic acid	5000 lb	-	-	X

U.S. State Regulations

California Proposition 65

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

U.S. State Regulations

Chemical Name	Pennsylvania
Edetic acid	X

International Regulations

Canada

WHMIS Hazard Class

Not subject to WHMIS classification

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 Exempt
DSL Exempt
NDSL Exempt

Perfumes contained with the products comply with appropriate IFRA guidance.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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

Material Safety Data Sheet



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1. PRODUCT AND COMPANY IDENTIFICATION

Product ID: 92245786

Product Name Nioxin Scalp Therapy 3

Recommended use Personal Beauty Care Product

Uses advised against All other uses

Synonyms System 3 Conditioner

Manufacturer The Procter & Gamble Company

Sharon Woods Innovation Center 11510 Reed Hartman Highway

Cincinnati OH 45202

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: 01-800-681-9531

2. HAZARDS IDENTIFICATION

Emergency Overview

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

WHMIS Not subject to WHMIS classification

Principle Routes of Exposure Skin contact. Eye contact.

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

Chemical Name	CAS-No	Weight %
Octadecanamide, N-[3-(dimethylamino)propyl]-	7651-02-7	1 - 5
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides	61789-80-8	0.1 - 1
Mentha Arvensis Oil	68917-18-0	0.1 - 1
glycerol 1-stearate	123-94-4	0.1 - 1

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. If

symptoms persist, call a physician. Remove contact lenses, if present, after the first 5

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minutes, then continue rinsing.

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.

Inhalation Not an expected route of exposure.

Protection of First-aidersUse personal protective equipment.

Most important symptoms/effects,

acute and delayed

None known.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point No information available

Suitable Extinguishing Media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Special Hazard None in particular

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment.

Environmental precautions Should not be released into the environment.

Methods for Containment No information available.

Methods for Cleaning up No information available.

7. HANDLING AND STORAGE

Advice on safe handling Keep out of the reach of children. Observe label precautions.

Technical measures/Storage

conditions

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and

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well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
glycerol 1-stearate	TWA: 10 mg/m ³ except	-		-
	stearates of toxic metals			
Chemical Name	British Columbia	Alberta	Quebec	Ontario TWAEV
glycerol 1-stearate	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³

Engineering Measures Not applicable.

Personal Protective Equipment

Eye Protection No special protective equipment required.

Hand Protection No special protective equipment required.

Skin and body protectionNo special protective equipment required.

Thermal hazards Not applicable.

Hygiene measures None under normal use condtions.

Environmental Exposure Controls See Section 6.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C liquid

blue. viscous liquid. **Appearance**

Odor Mint-like

Property Values Note

pH VALÚE

Melting/freezing point No information available No information available Boiling point/boiling range No information available Flash Point **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 No information available Vapor pressure No information available Vapor density 0.96 Relative density

Water solubility No information available No information available Solubility in other solvents Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** No information available **Decomposition temperature** No information available **Viscosity of Product** No information available

Bulk Density No information available

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

products.

10. STABILITY AND REACTIVITY

Reactivity None under normal use conditions.

Stable under normal conditions. Stability

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

Conditions to Avoid None under normal processing.

Materials to Avoid None in particular.

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute Toxicity Product does not present an acute toxicity hazard based on known or supplied information.

Principle Routes of Exposure Skin contact. Eye contact.

InhalationNo known effect based on information supplied.Skin contactNo known effect based on information supplied.IngestionNo known effect based on information supplied.Eye contactNo known effect based on information supplied.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides		2000 mg/kg (Rat)	180 mg/L (Rat)1 h
, , , , , , , , , , , , , , , , ,		Falka (Dobbit)	
Mentha Arvensis Oil	1240 mg/kg (Rat)	5 g/kg (Rabbit)	-

Chronic Toxicity

CorrosivityNo known effect.SensitizationNo known effect.Neurological EffectsNo known effect.

Reproductive Toxicity

The product contains no substances known to be hazardous to health in concentrations

which need to be taken into account.

Mutagenic Effects There are no known mutagenic chemicals in this product.

Developmental Toxicity TeratogenicityNo known effect.
No known effect.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates	Toxicity to other organisms
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides	EC50 96 h = 0.1 mg/L Desmodesmus subspicatus EC50 72 h = 0.00046 mg/L Pseudokirchneriella subcapitata	LC50 96 h = 1.48 mg/L Brachydanio rerio static	-	EC50 48 h = 0.32 mg/L Daphnia magna = 0.1 mg/L EC50 = 0.00046 mg/L EC50	-

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Chemical Name	Bioconcentration factor (BCF)
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides	13

Mobility No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused

Products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG

UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III

MEX

UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s.

Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III

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IATA

UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class9Packing GroupIIIERG Code9L

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III

ICAO

UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III

IMDG/IMO

UN/ID No UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

 Hazard class
 9

 Packing Group
 III

 EmS No.
 F-A, S-F

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III

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 no
Sudden Release of Pressure Hazard no
Reactive Hazard no

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Edetic acid	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Edetic acid	5000 lb	-	-	Х

U.S. State Regulations

California Proposition 65

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

U.S. State Regulations

Chemical Name	Pennsylvania
Edetic acid	X

International Regulations

Canada

WHMIS Hazard Class

Not subject to WHMIS classification

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 Exempt
DSL Exempt
NDSL Exempt

Perfumes contained with the products comply with appropriate IFRA guidance.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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

Material Safety Data Sheet



Issuing Date: 06-Jun-2012 Revision Date: 06-Jun-2012 Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product ID: 92245784

Product Name Nioxin Scalp Therapy 4

Recommended use Personal Beauty Care Product

Uses advised against All other uses

Synonyms System 4 Conditioner

Manufacturer The Procter & Gamble Company

Sharon Woods Innovation Center 11510 Reed Hartman Highway

Cincinnati OH 45202

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: 01-800-681-9531

2. HAZARDS IDENTIFICATION

Emergency Overview

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

WHMIS Not subject to WHMIS classification

Principle Routes of Exposure Skin contact. Eye contact.

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

Chemical Name	CAS-No	Weight %
Octadecanamide, N-[3-(dimethylamino)propyl]-	7651-02-7	1 - 5
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides	61789-80-8	0.1 - 1
glycerol 1-stearate	123-94-4	0.1 - 1
Mentha Arvensis Oil	68917-18-0	0.1 - 1

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. If

symptoms persist, call a physician. Remove contact lenses, if present, after the first 5

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minutes, then continue rinsing.

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.

Inhalation Not an expected route of exposure.

Protection of First-aidersUse personal protective equipment.

Most important symptoms/effects,

acute and delayed

None known.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point No information available

Suitable Extinguishing Media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Special Hazard None in particular

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment.

Environmental precautions Should not be released into the environment.

Methods for Containment No information available.

Methods for Cleaning up No information available.

7. HANDLING AND STORAGE

Advice on safe handling Keep out of the reach of children. Observe label precautions.

Technical measures/Storage

conditions

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and

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well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
glycerol 1-stearate	TWA: 10 mg/m ³ except	-		-
	stearates of toxic metals			
Chemical Name	British Columbia	Alberta	Quebec	Ontario TWAEV
glycerol 1-stearate	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³

Engineering Measures Not applicable.

Personal Protective Equipment

Eye Protection No special protective equipment required.

Hand Protection No special protective equipment required.

Skin and body protectionNo special protective equipment required.

Thermal hazards Not applicable.

Hygiene measures None under normal use condtions.

Environmental Exposure Controls See Section 6.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C liquid

blue. viscous liquid. **Appearance**

Odor Mint-like

Property Values Note

pH VALÚE

Melting/freezing point No information available No information available Boiling point/boiling range No information available Flash Point **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 No information available Vapor pressure No information available Vapor density 0.96

Relative density

Water solubility No information available No information available Solubility in other solvents Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** No information available **Decomposition temperature** No information available

Viscosity of Product No information available **Bulk Density** No information available

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

products.

10. STABILITY AND REACTIVITY

Reactivity None under normal use conditions.

Stable under normal conditions. Stability

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

Conditions to Avoid None under normal processing.

Materials to Avoid None in particular.

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute Toxicity Product does not present an acute toxicity hazard based on known or supplied information.

Principle Routes of Exposure Skin contact. Eye contact.

InhalationNo known effect based on information supplied.Skin contactNo known effect based on information supplied.IngestionNo known effect based on information supplied.Eye contactNo known effect based on information supplied.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides		2000 mg/kg (Rat)	180 mg/L (Rat)1 h
, , , , , , , , , , , , , , , , ,		Falka (Dobbit)	
Mentha Arvensis Oil	1240 mg/kg (Rat)	5 g/kg(Rabbit)	-

Chronic Toxicity

CorrosivityNo known effect.SensitizationNo known effect.Neurological EffectsNo known effect.

Reproductive Toxicity

The product contains no substances known to be hazardous to health in concentrations

which need to be taken into account.

Mutagenic Effects There are no known mutagenic chemicals in this product.

Developmental Toxicity TeratogenicityNo known effect.
No known effect.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates	Toxicity to other organisms
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides	EC50 96 h = 0.1 mg/L Desmodesmus subspicatus EC50 72 h = 0.00046 mg/L Pseudokirchneriella subcapitata	LC50 96 h = 1.48 mg/L Brachydanio rerio static	-	EC50 48 h = 0.32 mg/L Daphnia magna = 0.1 mg/L EC50 = 0.00046 mg/L EC50	-

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Chemical Name	Bioconcentration factor (BCF)
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides	13

Mobility No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused

Products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG

UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III,

MEX

UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s.

Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III,

Revision Date: 06-Jun-2012

IATA

UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing Group III
ERG Code 9L

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III

ICAO

UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III,

IMDG/IMO

UN/ID No UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

 Hazard class
 9

 Packing Group
 III

 EmS No.
 F-A, S-F

Description UN3082, Environmentally hazardous substance, liquid, n.o.s (Quaternary ammonium

compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides, Mentha Arvensis Oil), 9, III,

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 no
Sudden Release of Pressure Hazard no
Reactive Hazard no

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Edetic acid	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Edetic acid	5000 lb	-	-	X

U.S. State Regulations

California Proposition 65

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

U.S. State Regulations

Chemical Name	Pennsylvania		
Edetic acid	X		

International Regulations

Canada

WHMIS Hazard Class

Not subject to WHMIS classification

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 Exempt
DSL Exempt
NDSL Exempt

Perfumes contained with the products comply with appropriate IFRA guidance.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

16. OTHER INFORMATION

Issuing Date:06-Jun-2012Revision Date:06-Jun-2012

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

Material Safety Data Sheet



Issuing Date: 27-May-2014 Revision Date: 27-May-2014 Version 1

1. PRODUCT AND COMPANY INFORMATION

Product ID: 98740661_NA

Product Name NIOXIN Scalp Optimizing Cleanser

Product Type Finished Product - Consumer (Retail) and Professional Use

Recommended Use Personal Beauty Care Product

Synonyms No information available

Manufacturer The Procter & Gamble CompanySharon Woods Innovation Center11510 Reed Hartman

HighwayCincinnati 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 Irritating to eyes

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 Eye contact.

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 %
Poly(oxy-1,2-ethanediyl),	9004-82-4	5 - 10
alpha-sulfo-omega-(dodecyloxy)-, sodium salt (1:1)		
Sulfuric acid monododecyl ester sodium salt (1:1)	151-21-3	3 - 7
Amides, coco, N-hydroxyethyl	68140-00-1	1 - 5
Zinc,	13463-41-7	1 - 5
bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kap		
paS2]-, (T-4)-		

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

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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-aidersUse personal protective equipment.

Most important symptoms/effects,

acute and delayed

None known.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point Not Applicable

Suitable extinguishing media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Extinguishing media which shall not No information available.

be used for safety reasons

Special hazard None known based on information supplied.

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 Avoid contact with the skin and the eyes.

Environmental precautionsHousehold: 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: Contain spillage, and then collect with non-combustible absorbent

material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for

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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.

Technical measures/Storage

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place.

conditions

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	e CAS	-No	ACGIH T	LV	OS	SHA PEL		Mexico PEL
Zinc oxide	1314-	13-2	STEL: 10 mg/m ³	respirable	TWA: 5	mg/m³ fume	Me	exico: TWA 5 mg/m ³
			fraction	า	TWA: 15 r	ng/m³ total dust	Me	xico: TWA 10 mg/m ³
			TWA: 2 mg/m ³	respirable	TWA: 5 m	g/m³ respirable	Me	xico: STEL 10 mg/m ³
			fraction	า	f	raction		
					(vacated)	TWA: 5 mg/m ³		
						fume		
					(vacated)	TWA: 10 mg/m ³		
					to	tal dust		
					(vacated)	TWA: 5 mg/m ³		
					respira	able fraction		
					(vacated)	STEL: 10 mg/m ³		
						fume		
Chemical Name	CAS-No		Alberta	Que	bec	Ontario TWAI	ΕV	British Columbia
Zinc oxide	1314-13-2	Т	WA: 2 mg/m ³	TWA: 10	0 mg/m ³	TWA: 2 mg/m	1 ³	TWA: 2 mg/m ³
		S1	ΓEL: 10 mg/m ³	TWA: 5	mg/m ³	STEL: 10 mg/i	m³	STEL: 10 mg/m ³
			ŭ	STEL: 1	0 mg/m³	•		

Legend:

TLV - Threshold Limit Value

TWAEV - 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.

Personal Protective Equipment

Eye Protection If splashes are likely to occur, wear:. Safety glasses with side-shields.

No special protective equipment required. **Hand Protection**

Skin and Body Protection No special protective equipment required.

Respiratory Protection No special protective equipment required.

Thermal hazards Not applicable.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Use personal

protective equipment as required.

See section 6 for more information. **Environmental exposure controls**

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C liquid

Appearance white. opaque. viscous liquid.

Odor Mint-like

<u>Property</u> <u>Values</u> <u>Note</u>

pH value $\overline{6.5 - 8.3}$

Melting/freezing point

Boiling point/boiling range

No information available
No information available

Flash point Not Applicable

Evaporation rate No information available flammability (solid, gas) No information available

Flammability Limits in Air

Upper flammability limit No information available No information available **Lower Flammability Limit** No information available Vapor pressure Vapor density No information available Relative density No information available No information available Water solubility Solubility in other solvents No information available Partition coefficient: n-octanol/waterNo information available No information available **Autoignition temperature Decomposition temperature** No information available Viscosity of Product No information available

Bulk Density

No information available

Chemical Name	Partition Coefficient (n-octanol/water)			
Sulfuric acid monododecyl ester sodium salt (1:1)	< -2.03			
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-,	0.9			
(T-4)-				

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 None under normal processing.

Materials to avoid None in particular.

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity Irritating to eyes.

Principle routes of exposure Eye contact.

InhalationNo known effect based on information supplied.Skin contactNo known effect based on information supplied.IngestionNo known effect based on information supplied.

Eye contact Irritating to eyes.

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulfuric acid monododecyl ester sodium salt (1:1)	151-21-3	977 mg/kg bw (OECD 401; rat)	> 500 mg/kg bw (Read across data C10-16ASO4, NH4; guideline: Standard Procedure #10; fixed dose procedure; rabbit; based on active ingredient)	-
Zinc,	13463-41-7	269 mg/kg bw (OECD	> 2000 mg/kg bw (EPA	1.03 mg/L air (OECD
bis[1-(hydroxy-kappaO)-2(1H)-pyridine		401, rat)	OPP 81-2, rat)	403, rat)
thionato-kappaS2]-, (T-4)-				
Zinc oxide	1314-13-2	> 5000 mg/kg bw (Similar	> 2000 mg/kg bw (OECD	> 5.7 mg/L air (Similar to
		to OECD 401; standard	402; standard acute	OECD 403; standard
		acute method; rat)	method; rat)	acute method; rat; 4 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 TeratogenicityNo known effect.
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 Microorganisms	Toxicity to daphnia and other aquatic invertebrates	Toxicity to other organisms
Sulfuric acid monododecyl ester sodium salt (1:1)	151-21-3	> 120 mg/L (Guideline: DIN 38412, part 9; Desmodesmus subspicatus; static; freshwater; based on growth rate)	29 mg/L (Similar to OECD 203; Pimephales promelas; flow-through; freshwater; based on active ingredient)	EC50: 135 mg/L (Guideline not indicated; activated sludge; static; freshwater; respiration rate)	LC50: 5.55 mg/L (Guideline not indicated; Ceriodaphnia dubia; flow-through; freshwater; based on active ingredient)	-
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-p yridinethionato-kappaS2]-, (T-4)-	13463-41-7	0.0013 mg/L (Guideline EPA OPP 122-2, static, Skeletonema costatum)	0.0026 mg/L (EPA OPP 72-1, flow-through, Pimephales promelas)	2.4 mg/L (OECD 209, static, activated sludge)	0.0082 mg/L (EPA OPP 72-2, flow-through, Daphnia magna)	-
Zinc oxide	1314-13-2	IC50: 0.136 mg/L (OECD 201; Pseudokirchneriell a subcapitata; static; freshwater; growth rate)	ASTM, E-729-88; Thymallus arcticus; static; freshwater)	EC50: > 1000 mg/L (OECD 209; activated sludge of a predominantly domestic sewage; static; freshwater; respiration rate)	0.155 mg/L (Read across data on Zinc; US EPA 821-R-02-012; Ceriodaphnia dubia; static; freshwater)	EC10: 350 mg/kg soil dw (Read across data on zinc dichloride; ISO 11268-2; Eisenia fetida; annelids; natural soil)
Chemical Name	CAS-No	Toxicity to algae	Toxicity to fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates	Toxicity to other organisms
Sulfuric acid monododecyl ester sodium salt (1:1)	151-21-3	30 mg/L (Guideline: DIN 38412, part 9; Desmodesmus subspicatus; static; freshwater; based on growth rate)	> 1.357 mg/L (Guideline not indicated; Pimephales promelas; flow-through; freshwater; 42 d)		0.88 mg/L (Similar to to EPA-600/489/001 and USEPA OPPTS 850.1300; Ceriodaphnia dubia; flow-through; freshwater; 7 d)	
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-p yridinethionato-kappaS2]-, (T-4)-	13463-41-7	NOEC: 0.46 μg/L (0.00046 mg/L)	NOEC: 1.22 μg/L (0.00122 mg/L)	0.1 mg/L (OECD 209, static, activated sludge)	NOEC: 2.28 μg/L (0.00228 mg/L)	
Zinc oxide	1314-13-2	0.024 mg/L (OECD 201; Pseudokirchneriell a subcapitata; static; freshwater; growth rate)	OECD 215;	NOEC: 0.1 mg/L (Guideline: ISO DIS 9509; activated sludge of a predominantly domestic sewage; static; freshwater; concentration based on element; nitrification rate)	on Zinc sulfate;	0.0228 mg/L (Read across data on Zinc chloride; microcosm/mesoc osm; flow-through; freshwater; 4 wk)

Persistence and degradability

Chemical Name	Ready Test Results	Persistence and degradability
Sulfuric acid monododecyl ester sodium salt (1:1)	95 % (OECD 301 B; aerobic; activated sludge, domestic, non-adapted; CO2 evolution; meets 10 d window criteria)	87.3 % (Similar to OECD 314D; aerobic; natural water / sediment; CO2 evolution; 35 d)
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-	39% (OECD 301 B)	t1/2: 17 hours (River water at ambient temperature)

Bioaccumulative potential

Chemical Name	Bioconcentration factor (BCF)
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-	11 (OECD 305 E, Crassostrea virginica)
Zinc oxide	60960

Mobility

Chemical Name	KOC Values
Sulfuric acid monododecyl ester sodium salt (1:1)	446 (Guideline not indicated; HPLC estimation method; adsorption;
	sediment; at 25 C)
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-	Koc (adsorption): 2347 (Soil #1 sandy loam), 783 (Soil #2 loam), 10632 (Sediment #1 sandy loam) and 3596 (Sediment #2 silt loam); Koc (desorption): 3,293 (Soil #1 sandy loam), 873 (Soil #2 loam), 21814 (Sediment #1 sandy loam) and 6523 (Sediment #2 silt loam)

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

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of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

California Hazardous Waste Codes

(non-household setting)

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

IATA Not regulated

ICAO Not regulated

IMDG Not regulated

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Carbonic acid, zinc salt (1:1)	3486-35-9	1.54077	1.0
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kap paS2]-, (T-4)-	13463-41-7	1	1.0

SARA 311/312 Hazard Categories

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

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):.

Chemical Name	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Carbonic acid, zinc salt (1:1)	3486-35-9	1000 lb	-
hydrogen chloride	7647-01-0	5000 lb	5000 lb

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 contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:.

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
hydrogen chloride	7647-01-0	X

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):.

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Carbonic acid, zinc salt (1:1)	1000 lb	X	-	X
Zinc, bis[1-(hydroxy-kappaO)-2 (1H)-pyridinethionato-kap paS2]-, (T-4)-		X	-	-
Zinc oxide	-	X	-	-
hydrogen chloride	5000 lb	-	-	Х

U.S. State Regulations (RTK)

.

Chemical Name	New Jersey
Carbonic acid, zinc salt (1:1)	X
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-,	X
(T-4)-	

Chemical Name	Massachusetts
Carbonic acid, zinc salt (1:1)	X

Chemical Name	Pennsylvania
Carbonic acid, zinc salt (1:1)	X
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-	X
Zinc oxide	X
Sulfuric acid sodium salt (1:2)	X
hydrogen chloride	X
Glycerin	X
Propylene glycol	Х

Chemical Name	Rhode Island
Carbonic acid, zinc salt (1:1)	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

Issuing Date:27-May-2014Revision Date:27-May-2014

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

Material Safety Data Sheet



Issuing Date: 27-May-2014 Revision Date: 27-May-2014 Version 1

1. PRODUCT AND COMPANY INFORMATION

Product ID: 92231187_NA

Product Name NIOXIN Scalp Optimizing Conditioner

Product Type Finished Product - Consumer (Retail) and Professional Use

Recommended Use Personal Beauty Care Product

Synonyms No information available

Manufacturer The Procter & Gamble CompanySharon Woods Innovation Center11510 Reed Hartman

HighwayCincinnati 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

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 NOT 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 %
1-Octadecanol	112-92-5	1 - 5
Octadecanamide, N-[3-(dimethylamino)propyl]-	7651-02-7	1 - 5
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kap paS2]-, (T-4)-	13463-41-7	0.1 - 1

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

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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-aidersUse personal protective equipment.

Most important symptoms/effects,

acute and delayed

None known.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point Not Applicable

Suitable extinguishing media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Extinguishing media which shall not No information available.

be used for safety reasons

Special hazard None known based on information supplied.

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.

Environmental precautionsHousehold: 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.

Non-household: Contain spillage, and then collect with non-combustible absorbent Methods for cleaning up

material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for

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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.

Technical measures/Storage

conditions

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and

well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This product does not contain any hazardous materials with occupational exposure limits **Exposure Guidelines**

established by the region specific regulatory bodies.

Engineering Measures Not applicable.

Personal Protective Equipment

Eye Protection No special protective equipment required.

Hand Protection No special protective equipment required.

No special protective equipment required. **Skin and Body Protection**

Respiratory Protection No special protective equipment required.

Thermal hazards Not applicable.

None under normal use condtions. **Hygiene measures**

Environmental exposure controls See section 6 for more information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C liquid

Appearance white. Off-white.

Odor Mint-like

<u>Property</u> <u>Values</u> <u>Note</u>

pH value 4.0 - 5.5

Melting/freezing point

Boiling point/boiling range

No information available
No information available

Flash point Not Applicable

Evaporation rate No information available flammability (solid, gas) No information available

Flammability Limits in Air

Upper flammability limit No information available No information available **Lower Flammability Limit** No information available Vapor pressure Vapor density No information available Relative density No information available No information available Water solubility Solubility in other solvents No information available Partition coefficient: n-octanol/waterNo 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)

1-Octadecanol
7.4 (Guideline: ASTM E 1147, HPLC method)

Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-,
(T-4)-

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 AvoidNone under normal processing.

Materials to avoid None in particular.

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity Product does not present an acute toxicity hazard based on known or supplied information.

InhalationNo known effect based on information supplied.Skin contactNo known effect based on information supplied.IngestionNo known effect based on information supplied.Eye contactNo known effect based on information supplied.

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
1-Octadecanol	112-92-5	> 2000 mg/kg bw (OECD	> 2,000 mg/kg bw	-
		401, rat)	(Rabbit)	
Octadecanamide,	7651-02-7	Low acute toxicity in rats	Low acute toxicity in	-
N-[3-(dimethylamino)propyl]-		with a LD50 values	rabbits with LD50 values	
		exceeding 2000 mg/kg	exceeding 2000 mg/kg	
		bw	bw (read-across from	
			related substance)	
Zinc,	13463-41-7	269 mg/kg bw (OECD	> 2000 mg/kg bw (EPA	1.03 mg/L air (OECD
bis[1-(hydroxy-kappaO)-2(1H)-pyridine		401, rat)	OPP 81-2, rat)	403, rat)
thionato-kappaS2]-, (T-4)-				

Chronic Toxicity

CorrosivityNo known effect.SensitizationNo known effect.Neurological EffectsNo known effect.

Reproductive toxicityThe 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 TeratogenicityNo known effect.
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
1-Octadecanol	112-92-5	> 100 mg/L (OECD 201, Scenedesmus subspicatus)	> 0.4 mg/L (EU Method C.1, Salmo gairdneri, semi-static)	EC0: > 10000 mg/L (Pseudomonas putida)	1700 mg/L (Guideline: German Industry Standard DIN 38412, Part 11; May 1984, Daphnia magna, static)	-
Octadecanamide, N-[3-(dimethylamino)propyl]-	7651-02-7	ErC50 (72h) = 0.14 mg/L ErC10 (72h) = 0.07 mg/L	LC50 (96h) = >0.1 -<1 mg/L NOEC = 0.1 mg/L	NOEC = 100 mg/L	EC50 (48h) = 0.38 mg/L NOEC = 0.2 mg/L	-
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-p yridinethionato-kappaS2]-, (T-4)-	13463-41-7	0.0013 mg/L (Guideline EPA OPP 122-2, static, Skeletonema costatum)	0.0026 mg/L (EPA OPP 72-1, flow-through, Pimephales promelas)	2.4 mg/L (OECD 209, static, activated sludge)	0.0082 mg/L (EPA OPP 72-2, flow-through, Daphnia magna)	-
Chemical Name	CAS-No	Toxicity to algae	Toxicity to fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates	Toxicity to other organisms
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-p yridinethionato-kappaS2]-, (T-4)-	13463-41-7	NOEC: 0.46 μg/L (0.00046 mg/L)	NOEC: 1.22 μg/L (0.00122 mg/L)	0.1 mg/L (OECD 209, static, activated sludge)	NOEC: 2.28 μg/L (0.00228 mg/L)	

Persistence and degradability

Chemical Name	Ready Test Results	Persistence and degradability
1-Octadecanol	67% (activated sludge, readily	Half life: 1.1 day (sediment, primary
	biodegradable, but failing 10-day window)	degradation, for readily bioavailable test
		material), 34.7 day (sediment, primary
		degradation, less bioavailable test material)
Zinc,	39% (OECD 301 B)	t1/2: 17 hours (River water at ambient
bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-	,	temperature)
(T-4)-		

Bioaccumulative potential

Chemical Name	Bioconcentration factor (BCF)
1-Octadecanol	100000 L/kg (Calculated value)
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-	11 (OECD 305 E, Crassostrea virginica)

Mobility

Chemical Name	KOC Values
1-Octadecanol	471350 L/Kg (adsorption, batch equilibrium method)
Octadecanamide, N-[3-(dimethylamino)propyl]-	Koc = ~1,000-500,000
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-	Koc (adsorption): 2347 (Soil #1 sandy loam), 783 (Soil #2 loam), 10632 (Sediment #1 sandy loam) and 3596 (Sediment #2 silt loam); Koc (desorption): 3,293 (Soil #1 sandy loam), 873 (Soil #2 loam), 21814 (Sediment #1 sandy loam) and 6523 (Sediment #2 silt loam)

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

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of in accordance with local regulations.

Contaminated packaging

Dispose of in accordance with local regulations.

California Hazardous Waste Codes 561

(non-household setting)

14. TRANSPORT INFORMATION

DOT	Not regulated
<u>TDG</u>	Not regulated
MEX	Not regulated
<u>IATA</u>	Not regulated
ICAO	Not regulated
IMDG	Not regulated

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

No
No
No
No
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 contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:.

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
2-Phenoxyethanol	122-99-6	X

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):.

Chemical Name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
	Quantities			Substances

Zinc,	-	Х	-	-
bis[1-(hydroxy-kappaO)-2				
(1H)-pyridinethionato-kap				
paS2]-, (T-4)-				

U.S. State Regulations (RTK)

.

Chemical Name	Pennsylvania
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-,	X
(T-4)-	
2-Phenoxyethanol	X
Benzyl alcohol	X
Propylene glycol	Х

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

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.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

<= 22 °C / <= 72 °F

Suitable extinguishing media

Dry chemical, CO₂, water spray or alcohol-resistant foam.

Extinguishing media which shall not No information available. be used for safety reasons

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,

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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	Harris and The	CAS-No	ACGIH T	ΓLV	0	SHA PEL		Mexico PEL
Ethanol		64-17-5	STEL: 1000	0 ppm	TWA: (vacated)	: 1000 ppm 1900 mg/m³ TWA: 1000 ppm WA: 1900 mg/m³		xico: TWA 1000 ppm ico: TWA 1900 mg/m³
Chemical Name	CAS-No	MACON DIV.	Alberta	Que	ebec	Ontario TWA	EV	British Columbia
Ethanol	64-17-5		NA: 1000 ppm /A: 1880 mg/m³	TWA: 1000 ppm TWA: 1880 mg/m ³		STEL: 1000 pp	om	STEL: 1000 ppm
Propylene glycol	57-55-6					TWA: 10 mg/r TWA: 50 ppn TWA: 155 mg/	n	

Legend:

TLV - Threshold Limit Value

TWAEV - 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.

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.

Negrowal resultant for women

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°CliquidAppearanceclear.OdorAlcohol

<u>Property</u> <u>Values</u> <u>Note</u>

pH value

Melting/freezing point

Boiling point/boiling range
Flash point

Evaporation rate
flammability (solid, gas)
Flammability Limits in Air

No information available
No information available
No information available

Upper flammability limit
Lower Flammability Limit
Vapor pressure

No information available
No information available

Vapor density
Relative density
No information available
Water solubility
No information available
Solubility in other solvents
Partition coefficient: n-octanol/waterNo information available
Autoignition temperature
Decomposition temperature
Viscosity of Product
No information available
No information available
No information available
No information available

Bulk Density No information available

Chemical NamePartition Coefficient (n-octanol/water)Ethanol-0.35Propylene 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

InhalationNo known effect based on information supplied.Skin contactNo known effect based on information supplied.IngestionNo known effect based on information supplied.Eye contactNo 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
Sensitization
No known effect.
Neurological Effects
No known effect.
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. No known effect.

Developmental toxicity
Teratogenicity

No known effect.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

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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)	EPA method E03-05;	IC50: > 1000 mg/L (OECD 209; activated sludge from domestic and industrial sewage treatment plants; static; freshwater)	(Guideline: ASTM E729-80;	> 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)	sediment dw

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
---------------	------------

Ethanol	(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

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of in accordance with local regulations.

Contaminated packaging

Dispose of in accordance with local regulations.

California Hazardous Waste Codes 331

(non-household setting)

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

Ш

Packing Group Description

UN1170, Ethanol solution, 3, II, Ltd. Qty.

Emergency Response Guide

Number

TDG

UN/ID no

UN1170

Proper shipping name

ETHANOL SOLUTION

Hazard Class Packing Group 3 H

Description

UN1170, Ethanol solution, 3, II, Ltd. Qty.

MEX

UN/ID no

UN1170

Proper shipping name

Ethanol in solution

Hazard Class

Packing Group

Description

UN1170, Ethanol in solution, 3, II, Ltd. Qty.

IATA

UN/ID no

UN1170

Proper shipping name

ETHANOL SOLUTION

Hazard Class Packing Group ERG Code

Ш

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

Revision Date: 29-May-2014 Regrowth Treatment for Women

Packing Group

Ш Description UN1170, Ethanol solution, 3, II, Ltd. Qty.

ICAO Comment Can also be shipped as ID8000 Consumer Commodity

IMDG

UN/ID no UN1170

ETHANOL SOLUTION Proper shipping name

Hazard Class 3 **Packing Group** Ш F-E, S-D EmS-No

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

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.

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

Issuing Date:

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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

Material Safety Data Sheet



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Version 1

1. PRODUCT AND COMPANY INFORMATION

Product ID:

96845729_NA

Product Name

NIOXIN Minoxidil Topical Solution USP 5% Hair Regrowth Treatment for Men

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.

Regrowth Treatment for Men

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	3 - 7

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

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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-aidersUse 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 31 °C / 88 °F

Suitable extinguishing media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Extinguishing media which shall not No information available.

be used for safety reasons

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 precautionsNone 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,

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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 T	LV	05	SHA PEL		Mexico PEL
Ethanol		64-17-5	.17-5 STEL: 1000 p		ppm TWA: 1000 ppm TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m³			
Chemical Name	CAS-No		Alberta	Que	ebec	Ontario TWA	₹V.	British Columbia
Ethanol	64-17-5		WA: 1000 ppm /A: 1880 mg/m³	TWA: 1000 ppm TWA: 1880 mg/m ³		STEL: 1000 pp	om	STEL: 1000 ppm
Propylene glycol	57-55-6		•			TWA: 10 mg/r TWA: 50 ppn TWA: 155 mg/	n	

Legend:

TLV - Threshold Limit Value

TWAEV - 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.

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 Appearance

liquid clear. Alcohol

Property

Odor

Values 8.6

Note

pH value Melting/freezing point

No information available Boiling point/boiling range No information available Flash point 31 °C / 88 °F **Evaporation rate** No information available

flammability (solid, gas) 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 soluble

Solubility in other solvents No information available Partition coefficient: n-octanol/waterNo 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 comply with US state and federal regulations for VOC content in consumer

products.

Oxidizing properties

No information available

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 Skin contact Ingestion Eye contact

No known effect based on information supplied. No known effect based on information supplied. No known effect based on information supplied. 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 Sensitization

Neurological Effects Reproductive toxicity

No known effect. No known effect.

The product contains no substances known to be hazardous to health in concentrations

which need to be taken into account. There are no known mutagenic chemicals in this product.

No known effect.

Germ cell mutagenicity **Developmental toxicity** Teratogenicity

No known effect. No known effect.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

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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)	(Guideline: ASTM E729-80;	> 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)	sediment dw

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)
	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 .	

·	
Chamical Name	VOO Velesee

Ethanol	(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 331

(non-household setting)

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 solutions

Hazard Class Packing Group III

Description UN1170, Ethanol solutions, 3, III, Ltd. Qty. 127

Emergency Response Guide

Number

TDG

UN/ID no UN1170

Proper shipping name Ethanol solutions

Hazard Class Packing Group Ш

Description UN1170, Ethanol solution, 3, III, Ltd. Qty.

MEX

UN/ID no UN1170

Proper shipping name Ethanol solutions

Hazard Class 3 Packing Group

Description UN1170, Ethanol solutions, 3, III, Ltd. Qty.

IATA

UN/ID no UN1170

Proper shipping name Ethanol solutions

Hazard Class Ш **Packing Group ERG Code** 3L

Description UN1170, Ethanol solution, 3, III, Ltd. Qty.

IATA comment Can also be shipped as ID8000 Consumer Commodity

ICAO

UN/ID no UN1170

Proper shipping name Ethanol solutions

Hazard Class 3 Regrowth Treatment for Men

Packing Group Ш

Description UN1170, Ethanol solution, 3, III, Ltd. Qtv.

ICAO Comment Can also be shipped as ID8000 Consumer Commodity

IMDG

UN/ID no UN1170

Proper shipping name Ethanol solutions

Hazard Class 3 **Packing Group** Ш **EmS-No** F-E. S-D

Description UN1170, Ethanol solution, 3, III, Ltd. Qty.

15. REGULATORY INFORMATION

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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.

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