

Kit Summary

Product name	Nioxin Scalp Recovery
Product ID:	KT00042
<u>DOT</u>	Not regulated. (If shipped in NON BULK packaging by ground transport)
Synonyms	This kit is composed of the following components: Nioxin Scalp Recovery Soothing Serum (92238238) * Nioxin Scalp Recovery Moisturizing Conditioner (92231187) * Nioxin Scalp Recovery Medicating Cleanser (98740661)

Material Safety Data Sheet



Issuing Date: 27-Mar-2013

Revision Date: 27-Mar-2013

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product ID:	92231187
Product name	Nioxin Scalp Recovery Moisturizing Conditioner
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 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. 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

Chemical Name	CAS-No	Weight %
Octadecanamide, N-[3-(dimethylamino)propyl]-	7651-02-7	1 - 5
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (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 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.
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, CO ₂ , water spray or alcohol-resistant foam.
Extinguishing media which shall not be used for safety reasons	No information available
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.
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: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

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

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Not applicable.
<u>Personal Protective Equipment</u>	
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C
Appearance
Odor

liquid
 white. Off-white.
 Mint-like

<u>Property</u>	<u>Values</u>	<u>Note</u>
pH VALUE	4.0 - 5.5	
melting/freezing point	No information available	
Boiling point/boiling range	not applicable	
Flash Point	not applicable	
Evaporation Rate	No information available	
flammability (solid, gas)	Not applicable	
Flammability Limits in Air		
Upper Flammability Limit	No information available	
lower flammability limit	No information available	
vapor pressure	No information available	
Vapor Density	No information available	
Relative Density	No information available	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition Temperature	No information available	.
decomposition temperature	No information available	.
Viscosity of Product	No information available	
Bulk Density	No information available	

<u>Chemical Name</u>	<u>Partition Coefficient (n-octanol/water)</u>
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-	0.9

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

Oxidizing properties Not applicable

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**

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

Inhalation

No known effect based on information supplied.

Skin Contact

No known effect based on information supplied.

Ingestion

No known effect based on information supplied.

Eye Contact

No known effect based on information supplied.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-p yridinethionato-kappaS2]-, (T-4)-	269 mg/kg bw (OECD 401, rat)	> 2000 mg/kg bw (EPA OPP 81-2, rat)	1.03 mg/L air (OECD 403, rat)

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.

MUTAGENIC EFFECTS

There are no known mutagenic chemicals in this product.

Developmental Toxicity

No known effect.

Teratogenicity

No known effect.

Carcinogenicity

Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Toxicity

Chemical Name	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)-pyridinethionato-kappaS2]-, (T-4)-	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	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)-pyridinethionato-kappaS2]-, (T-4)-			0.1 mg/L (OECD 209, static, activated sludge)		

Persistence and degradability

Chemical Name	Ready Test Results	Other Degradability / Persistence Test Results
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)

Mobility

Chemical Name	KOC Values
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 of in accordance with local regulations.

Contaminated packaging

Dispose of in accordance with local regulations.

California Hazardous Waste Codes (non-household setting) 561

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>IATA</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IMDG/IMO</u>	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, 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	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
2-Phenoxyethanol	X

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

California Proposition 65

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

Chemical Name	Pennsylvania
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-	X
2-Phenoxyethanol	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** Product is a personal care product and regulated under FDA**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:** 27-Mar-2013**Revision Date:** 27-Mar-2013**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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product ID:	92238238
Product name	Nioxin Scalp Recovery Soothing Serum
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 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. 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

Chemical Name	CAS-No	Weight %
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (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 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.

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, CO ₂ , water spray or alcohol-resistant foam.
Extinguishing media which shall not be used for safety reasons	No information available
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.
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: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

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

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Not applicable.
<u>Personal Protective Equipment</u>	
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.

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	5.0 - 6.5	
melting/freezing point	No information available	
Boiling point/boiling range	No information available	
Flash Point	No information available	
Evaporation Rate	No information available	
flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper Flammability Limit	No information available	
lower flammability limit	No information available	
vapor pressure	No information available	
Vapor Density	No information available	
Relative Density	No information available	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition Temperature	No information available	.
decomposition temperature	No information available	.
Viscosity of Product	No information available	
Bulk Density	No information available	

Chemical Name	Partition Coefficient (n-octanol/water)
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-	0.9

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**

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

Inhalation

No known effect based on information supplied.

Skin Contact

No known effect based on information supplied.

Ingestion

No known effect based on information supplied.

Eye Contact

No known effect based on information supplied.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-p yridinethionato-kappaS2]-, (T-4)-	269 mg/kg bw (OECD 401, rat)	> 2000 mg/kg bw (EPA OPP 81-2, rat)	1.03 mg/L air (OECD 403, rat)

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.

MUTAGENIC EFFECTS

There are no known mutagenic chemicals in this product.

Developmental Toxicity

No known effect.

Teratogenicity

No known effect.

Carcinogenicity

Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Toxicity

Chemical Name	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)-pyridinethionato-kappaS2]-, (T-4)-	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	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)-pyridinethionato-kappaS2]-, (T-4)-			0.1 mg/L (OECD 209, static, activated sludge)		

Persistence and degradability

Chemical Name	Ready Test Results	Other Degradability / Persistence Test Results
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)

Mobility

Chemical Name	KOC Values
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 of in accordance with local regulations.

Contaminated packaging

Dispose of in accordance with local regulations.

California Hazardous Waste Codes 331
(non-household setting)

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>IATA</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IMDG/IMO</u>	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, 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	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
2-Phenoxyethanol	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
Zinc, bis[1-(hydroxy-kappaO)-2 (1H)-pyridinethionato-kap paS2]-, (T-4)-	-	X	-	-

U.S. State Regulations

California Proposition 65

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

Chemical Name	Pennsylvania
2-Phenoxyethanol	X
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-	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 Product is a personal care product and regulated under FDA

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: 27-Mar-2013

Revision Date: 27-Mar-2013

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

1. PRODUCT AND COMPANY IDENTIFICATION

Product ID: 98740661

Product name Nioxin Scalp Recovery Medicating Cleanser

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 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 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

Chemical Name	CAS-No	Weight %
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-(dodecyloxy)-, sodium salt (1:1)	9004-82-4	5 - 10
Sulfuric acid monododecyl ester sodium salt (1:1)	151-21-3	3 - 7
Amides, coco, N-hydroxyethyl	68140-00-1	1 - 5
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kap paS2]-, (T-4)-	13463-41-7	1 - 5

4. FIRST AID MEASURES

General advice	No hazards which require special first aid measures. When symptoms persist or in all cases of doubt seek medical advice.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. If symptoms persist, call a physician.
Skin Contact	If skin problems occur, discontinue use. If symptoms persist, call a physician.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician.
Inhalation	Move to fresh air.
Protection of First-aiders	Use personal protective equipment.
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, CO ₂ , water spray or alcohol-resistant foam.
Extinguishing media which shall not be used for safety reasons	No information available
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.
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: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

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

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Not applicable.
<u>Personal Protective Equipment</u>	
Eye Protection	If splashes are likely to occur, wear:. Safety glasses with side-shields.
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	Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required.
Environmental Exposure Controls	See Section 6.

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	6.5 - 8.3	
melting/freezing point	No information available	
Boiling point/boiling range	No information available	
Flash Point	No information available	
Evaporation Rate	No information available	
flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper Flammability Limit	No information available	
lower flammability limit	No information available	
vapor pressure	No information available	
Vapor Density	No information available	
Relative Density	No information available	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition Temperature	No information available	.
decomposition temperature	No information available	.
Viscosity of Product	No information available	
Bulk Density	No information available	

Chemical Name	Partition Coefficient (n-octanol/water)
Sulfuric acid monododecyl ester sodium salt (1:1)	-2.03 (at 20 C; Computational Approach in OECD Guideline 107)
Amides, coco, N-hydroxyethyl	3.89
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-	0.9

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.
Inhalation	No known effect based on information supplied.
Skin Contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Eye Contact	Irritating to eyes.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-(dodecyloxy) -, sodium salt (1:1)	= 1600 mg/kg (Rat)	-	-
Sulfuric acid monododecyl ester sodium salt (1:1)	1200 mg/kg bw (OECD 401, Rat)	> 2000 mg/kg bw (Expert assessment)	> 3900 mg/m ³ (Rat) 1 h
Amides, coco, N-hydroxyethyl	= 3300 mg/kg (Rat)	-	-
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-p yridinethionato-kappaS2]-, (T-4)-	269 mg/kg bw (OECD 401, rat)	> 2000 mg/kg bw (EPA OPP 81-2, rat)	1.03 mg/L air (OECD 403, rat)

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.
MUTAGENIC EFFECTS	There are no known mutagenic chemicals in this product.
Developmental Toxicity	No known effect.
Teratogenicity	No known effect.
Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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)	> 120 mg/L (DIN 38412, part 9; <i>Desmodesmus subspicatus</i> , based on growth rate)	29 mg/L (OECD 203, <i>Pimephales promelas</i> , flow-through)	135 mg/L (Activated sludge, respiration rate)	5.55 mg/L (<i>Ceriodaphnia dubia</i> , flow-through)	-
Amides, coco, N-hydroxyethyl	-	LC50 96 h = 28.5 mg/L <i>Brachydanio rerio</i> semi-static LC50 96 h = 31 mg/L <i>Brachydanio rerio</i>	-	EC50 24 h = 10 mg/L <i>Daphnia magna</i>	-
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-	0.0013 mg/L (Guideline EPA OPP 122-2, static, <i>Skeletonema costatum</i>)	0.0026 mg/L (EPA OPP 72-1, flow-through, <i>Pimephales promelas</i>)	2.4 mg/L (OECD 209, static, activated sludge)	0.0082 mg/L (EPA OPP 72-2, flow-through, <i>Daphnia magna</i>)	-

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)	30 mg/L (DIN 38412, part 9; <i>Desmodesmus subspicatus</i> , based on biomass)	> 1.357 mg/L (<i>Pimephales promelas</i> , 42 d)			
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-			0.1 mg/L (OECD 209, static, activated sludge)		

Persistence and degradability

Chemical Name	Ready Test Results	Other Degradability / Persistence Test Results
Sulfuric acid monododecyl ester sodium salt (1:1)	95% (OECD 301 B; 28 d, CO2 evolution)	
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, <i>Crassostrea virginica</i>)

Mobility

Chemical Name	KOC Values
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 of in accordance with local regulations.

Contaminated packaging

Dispose of in accordance with local regulations.

California Hazardous Waste Codes (non-household setting)

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14. TRANSPORT INFORMATION

DOT

Not regulated. (If shipped in NON BULK packaging by ground transport)

TDG

UN/ID no 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 (Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-, Zinc oxide), 9, III, MARINE POLLUTANT, Ltd. Qty.

MEX

UN/ID no 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 (Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-, Zinc oxide), 9, III, MARINE POLLUTANT, Ltd. Qty.

IATA

UN/ID no 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 (Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-, Zinc oxide), 9, III, Ltd. Qty.
 Can also be shipped ID8000, Consumer Commodity

ICAO

UN/ID no 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 (Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-, Zinc oxide), 9, III, Ltd. Qty.
 Can also be shipped ID8000, Consumer Commodity

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 (Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-kappaS2]-, (T-4)-, Zinc oxide), 9, III, MARINE POLLUTANT, 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 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-kappaS2]-, (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	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Carbonic acid, zinc salt (1:1)	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ
hydrogen chloride	5000 lb	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 contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
hydrogen chloride	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 oxide	-	X	-	-

hydrogen chloride	5000 lb	-	-	X
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U.S. State Regulations**California Proposition 65**

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

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

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
Sulfuric acid sodium salt (1:2)	X
Zinc oxide	X
hydrogen chloride	X

Chemical Name	Rhode Island
Carbonic acid, zinc salt (1:1)	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 Product is a personal care product and regulated under FDA

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: 27-Mar-2013
Revision Date: 27-Mar-2013

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