Material Safety Data Sheet

Issuing Date: 27-Mar-2013 **Revision Date:** 27-May-2014 **Version** 2

1. PRODUCT AND COMPANY INFORMATION

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: 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), 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-kappaS2]-, (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

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Zinc oxide	1314-13-2	STEL: 10 mg/m³ respirable fraction TWA: 2 mg/m³ respirable fraction	TWA: 5 mg/m³ fume TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 5 mg/m³ fume (vacated) TWA: 10 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction (vacated) STEL: 10 mg/m³ fume	Mexico: TWA 5 mg/m³ Mexico: TWA 10 mg/m³ Mexico: STEL 10 mg/m³

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Zinc oxide	1314-13-2	TWA: 2 mg/m³ STEL: 10 mg/m³	TWA: 10 mg/m³ TWA: 5 mg/m³ STEL: 10 mg/m³	TWA: 2 mg/m³ STEL: 10 mg/m³	TWA: 2 mg/m³ STEL: 10 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.

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 for more information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C liquid
Appearance white. opaque. viscous liquid.
Odor Mint-like

Property	Values	Note
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
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	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, bis[1-(hydroxy-kappaO)-2(1H)-pyridine thionato-kappaS2]-, (T-4)-	13463-41-7	269 mg/kg bw (OECD 401, rat)	> 2000 mg/kg bw (EPA OPP 81-2, rat)	1.03 mg/L air (OECD 403, rat)
Zinc oxide	1314-13-2	> 5000 mg/kg bw (Similar to OECD 401; standard acute method; rat)	> 2000 mg/kg bw (OECD 402; standard acute method; rat)	> 5.7 mg/L air (Similar to OECD 403; standard 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 No known effect.
Teratogenicity No known effect.
Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	CAS-No	Toxicity to algae	Toxicity to fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates	Toxicity to other organisms
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)-pyridinethionato-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; Pseudokirchneriella subcapitata; static; freshwater; growth rate)	0.112 mg/L (Read across data on Zinc chloride; 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 EPA-600/489/001 and USEPA OPPTS 850.1300; Ceriodaphnia dubia; flow-through; freshwater; 7 d)	
Zinc, bis[1-(hydroxy-kappaO)-2(1H)-pyridinethionato-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; Pseudokirchneriella subcapitata; static; freshwater; growth rate)	0.039 mg/L (Read across data on Zinc chloride; OECD 215; Oncorhynchus mykiss; flow-through; freshwater)	NOEC: 0.1 mg/L (Guideline: ISO DIS 9509; activated sludge of a predominantly domestic sewage; static; freshwater; concentration based on element; nitrification rate)	0.0056 mg/L (Read across data on Zinc sulfate; EPA/600/R-95-136; Holmesimysis costata; semi-static; saltwater)	0.0228 mg/L (Read across data on Zinc chloride; microcosm/mesocosm; 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 of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

California Hazardous Waste Codes (non-household setting) 331

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-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	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-kappaS2]-, (T-4)-	-	X	-	-
Zinc oxide	-	X	-	-
hydrogen chloride	5000 lb	-	-	X

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]-, (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
Zinc oxide	X
Sulfuric acid sodium salt (1:2)	X
hydrogen chloride	X
Glycerin	X
Propylene glycol	X

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-Mar-2013
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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