

MATERIAL DATA SHEET

Manufacturer's Name: Bristol Myers Squibb Company
 Consumer Products Division
 One Blachley Road, Stamford, CT 06902
 Attention: Patricia Heyl

Transportation Emergency:
 Call Chemtrec 1-800-424-9300
 Emergency Telephone Number:
 (203) 357-5678

Distributor's Name: Matrix Essentials, Inc.
 30601 Carter Street, Solon, Ohio 44139

This sheet has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION I

Product Name/Category: Logics Oxidation (Permanent) Hair Colors
 Oxidation Hair Colors contain low concentrations of the dye intermediates in an aqueous base. They are mixed with the developer (hydrogen peroxide) before use. Separate MSDS for hydrogen peroxide.

SECTION II - Ingredients Identity/Hazards Evaluation

The Oxidation Hair Colors generally contain the following hazardous ingredients (1% concentration or greater; 0.1% for carcinogens)

CTFA NAME	CAS #	EXPOSURE LIMITS
Oleic Acid	112-80-1	
Propylene Glycol	57-55-6	
Nonoxynol-9	9016-45-9	
Isopropyl Alcohol	67-63-0	400 ppm TLV, PEL, 500 ppm STEL
Cetyl Alcohol	36653-82-4	
Ammonium Hydroxide	1336-21-6	25 ppm TLV Ammonia, 35 ppm STEL
Hexylene Glycol	107-41-5	C 25 ppm TLV, PEL
Nonoxynol-4	9016-45-9	
Lauramide DEA	120-40-1	
Polyquaternium 22	53694-17-0	
Sodium Lauryl Sulfate	151-21-3	
Glycerin	56-81-5	10 mg/m ³ TLV, PEL as a mist 5 mg/m ³ resp OSHA
Resorcinol	108-46-3	10 ppm TLV, PEL, 20 ppm STEL
N,N-Bis (2-Hydroxyethyl)-p-Phenylenediamine Sulfate	58262-44-5	
p-Phenylenediamine	106-50-3	0.1 mg/m ³ TLV, PEL
PEG-15 Tallow Polyamine	Unknown	
p-Aminophenol	123-30-8	
PEG-8 Tallow Amine	61791-26-2	
m-Aminophenol	591-27-5	
1-Naphthol	90-15-3	
Sodium Chloride	7647-14-5	
4-Amino-2-Hydroxytoluene	2835-95-2	
Mica	12001-26-2	3 mg/m ³ respirable TLV, PEL
Fragrance	Unknown	
Phosphoric Acid	7664-38-2	1 mg/m ³ TLV, PEL, 3 mg/m ³ STEL
2-Nitro-p-Phenylenediamine	5307-14-2	
Lactic Acid	50-21-5	

SECTION III - Physical/Chemical Characteristics

Specific Gravity (H₂O = 1): 0.995-1.009 pH: 9.5 - 10.8

Solubility in Water: Partly soluble.

Appearance and odor: Fragranced liquids. Ammoniacal odor.

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used): Products containing alcohol: 77 - 110°F, closed cup.

Fire Fighting Procedures: Extinguish fires with water, ABC all-purpose or CO₂ extinguisher. The type of extinguisher used should conform with local fire regulations.

Unusual Fire and Explosion Hazards: Not Applicable.

Physical Hazards: Products containing alcohol are usually flammable or combustible liquids.

SECTION V - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sunlight.

Incompatibility (Materials to Avoid): Acids.

Hazardous Decomposition or Byproducts: Ammonia may be generated.

SECTION VI - Health Hazards and Hazard Data

The TLV of the mixture has not been established.

1. Effects of Acute Accidental Exposure:

Eye Contact: CAUTION. Unmixed oxidation haircolors are eye irritants.

When oxidation haircolors are mixed with developers (hydrogen peroxide), the mixture may cause severe irritation and possible permanent eye injury.

Skin Contact: Irritant.

Skin Sensitizer: May cause allergic reaction in some individuals upon exposure.

Inhalation: Inhalation of ammonia vapors may result in respiratory irritation.

Ingestion: Moderately toxic.

2. Effects of Chronic Exposure:

A composite mixture of oxidation dyes has been tested in prolonged topical exposure studies of laboratory animals. No adverse effects on growth, reproduction or general health were observed.

These products contain 2-nitro-p-phenylenediamine, which when fed at extremely high doses were found to cause benign liver tumors in female mice (NTP). These effects were not observed in feeding studies in male mice or male and female rats. Dosage levels producing the adverse effects in female mice were equivalent to a woman drinking about 1/2 gallon of hair color per day for a lifetime. Independent pathologists and oncologists have concluded that the results are not relevant to human health.

In topical studies no target organ toxicity was observed other than limited effect on treated skin.

3. Carcinogen Status: OSHA: NTP: Yes IARC:

4. Route of Entry:

Inhalation: Yes Ingestion: Yes Skin: Yes

5. Pre-existing dermatitis would likely be made worse by exposure to oxidation haircolor products. Bronchitis may be aggravated by irritant vapors.

6. Emergency and First Aid Procedures

a. Eye Contact: Remove contact lenses. Flush immediately with plenty of water for 15 minutes. Get medical attention IMMEDIATELY.

b. Skin Contact: If spilled, wash skin immediately with soap and water (do not use solvents). Change into clean clothing. If allergic reaction develops, contact dermatologist.

c. Inhalation: Remove person to fresh air. Increase ventilation.

d. Ingestion: Rinse out mouth with water and administer large amounts of milk. Contact Poison Control Center.

SECTION VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Contain spill and promptly clean up. Flush with water. Floor can be slippery when wet.

Waste Disposal Method: Disposal should be in accordance with all applicable Local, State, and Federal Regulations.

Precautions to Be Taken in Handling and Storage: Follow flammable liquid storage requirements, if applicable. Do not expose to sunlight. Keep away from radiators and heat.

Do not store any haircolor after it has been mixed with developer; the container may explode.

SECTION VIII - Control Measures

Ventilation: Exhaust system ventilation should be adequate to avoid buildup of vapors.

Eye Protection: Avoid contact with eyes. Use protective eyewear, if splashing is possible.

Protective Gloves: Use impervious gloves.

Respiratory Protection: Avoid inhalation.

Work Hygienic Practices: Avoid all skin, eye, and clothing contact with products. In case of contact, rinse thoroughly with water. Promptly clean up all spills.

SECTION IX - Transportation Information

DOT Class: Consumer Commodity ORM-D

IATA/ICAO: Consumer Commodity Class: 9, ID 8000 Packing Instruction 910

IMDG: Dangerous Goods in Limited Quantities of Class 3