

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

### SECTION 1. IDENTIFICATION

Product name : MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR  
COLOR - GROUP 1

#### Manufacturer or supplier's details

Address : L'Oreal USA Products, Inc  
30 Terminal Avenue  
Clark, NJ 07066  
USA

Telephone : 1-732-499-2745

E-mail address : CORPREGAFFAIRSMSDS@LOREAL.COM

#### Emergency telephone

INFOTRAC : 1-800-535-5053 (International: +1 352-323-3500) (Available  
24 hours a day. SDS/Product information may not be available  
for the Emergency Service.)

#### Recommended use of the chemical and restrictions on use

Recommended use : Personal care product used for cosmetic effect.

---

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion : Sub-category 1B


Serious eye damage : Category 1

Skin sensitization : Category 1

#### Other hazards

None known.

#### GHS label elements

Hazard pictograms : 

Signal Word : Danger

---

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

Hazard Statements : H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

Precautionary Statements : P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.

**Prevention:**

P261 Avoid breathing mist or vapors.  
P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Additional Labeling**

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 1.05 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 1.05 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 1.05 %

---

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Components

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

Chemical name	CAS No./Unique ID	Concentration (% w/w)
COCAMIDE MEA	68140-00-1*	$\geq 10 - \leq 30$
STEARAMIDE MEA	111-57-9*	$\geq 3 - \leq 7$
AMMONIUM HYDROXIDE	1336-21-6*	$\geq 3 - \leq 7$
GLYCERIN	56-81-5*	$\geq 3 - \leq 7$
PEG-2 OLEAMINE	25307-17-9*	$\geq 3 - \leq 7$
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE	155601-30-2*	$\geq 1 - \leq 5$
ETHANOLAMINE	141-43-5*	$\geq 1 - \leq 5$
4-AMINO-2-HYDROXYTOLUENE	2835-95-2*	$\geq 0.5 - \leq 1.5$
MYRISTYL STEARATE	17661-50-6*	$\geq 0.1 - \leq 1$
p-AMINOPHENOL	123-30-8*	$\geq 0.1 - \leq 1$
p-PHENYLENEDIAMINE	106-50-3*	$\geq 0.1 - \leq 1$
RESORCINOL	108-46-3*	$\geq 0.1 - \leq 1$
HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL	1079221-49-0*	$\geq 0.1 - \leq 1$
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE	54381-16-7*	$\geq 0.1 - \leq 1$
m-AMINOPHENOL	591-27-5*	$\geq 0.1 - \leq 1$
2-METHYLRESORCINOL	608-25-3*	$\geq 0.1 - \leq 1$

\* Indicates that the identifier is a CAS No.

### SECTION 4. FIRST AID MEASURES

- General advice : Consult a physician.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.  
Do NOT induce vomiting.  
If symptoms persist, call a physician.  
Obtain medical attention.

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0	Revision Date: 08/19/2025	SDS Number: 80-21- 410000002427	Date of last issue: - Date of first issue: 08/19/2025
----------------	------------------------------	---------------------------------------	--

---

Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.  
Causes serious eye damage.  
Causes severe burns.

Notes to physician : Treat symptomatically.

---

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.  
Standard procedure for chemical fires.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

---

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Neutralize with acid.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

---

### SECTION 7. HANDLING AND STORAGE

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.
- Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
GLYCERIN	56-81-5	TWA (mist, respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (mist, total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
ETHANOLAMINE	141-43-5	TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		TWA	3 ppm 8 mg/m <sup>3</sup>	NIOSH REL
		ST	6 ppm 15 mg/m <sup>3</sup>	NIOSH REL
		TWA	3 ppm 6 mg/m <sup>3</sup>	OSHA Z-1
MYRISTYL STEARATE	17661-50-6	TWA (Inhalable particulate matter)	10 mg/m <sup>3</sup>	ACGIH
		TWA (Respirable particulate matter)	3 mg/m <sup>3</sup>	ACGIH
p-PHENYLENEDIAMINE	106-50-3	TWA	0.1 mg/m <sup>3</sup>	ACGIH
		TWA	0.1 mg/m <sup>3</sup>	NIOSH REL
		TWA	0.1 mg/m <sup>3</sup>	OSHA Z-1
RESORCINOL	108-46-3	TWA	10 ppm	ACGIH
		STEL	20 ppm	ACGIH

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

		ST	20 ppm 90 mg/m3	NIOSH REL
		TWA	10 ppm 45 mg/m3	NIOSH REL
		STEL	20 ppm 90 mg/m3	OSHA P0
		TWA	10 ppm 45 mg/m3	OSHA P0

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentra-tion	Basis
RESORCINOL	108-46-3	Methemo-globin	In blood	During or at the end of the shift	5 % Hb	ACGIH BEI

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : Applicable for industrial settings only. Nitrile rubber

Eye protection : Applicable for industrial settings only.  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Applicable for industrial settings only.  
Work uniform or laboratory coat.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Form : cream

Color : Shaded

Odor : characteristic

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

pH : 10.0 - 11.0

Melting point/freezing point : No data available

Boiling point/boiling range : Not available

Flash point : > 212 °F / > 100 °C  
Method: ISO 3679

Fire Point : > 100 °C  
Method:ISO 2592

Flammability (liquids) : Does not sustain combustion.

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density :  $\geq 0.96$  (77 °F / 25 °C)

Solubility(ies)  
Water solubility : partly soluble

Partition coefficient: n-octanol/water : Not applicable

Autoignition temperature : No data available

Decomposition temperature : Not applicable

Viscosity  
Viscosity, kinematic : No data available

Dust explosion class : Not applicable

Particle characteristics  
Particle size : Not applicable

---

### SECTION 10. STABILITY AND REACTIVITY

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Incompatible materials : Not applicable

Hazardous decomposition products : No hazardous decomposition products are known.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 2,954 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Assessment: Not corrosive to the respiratory tract.

Acute toxicity estimate: 69.79 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

#### Components:

##### **COCAMIDE MEA:**

Acute oral toxicity : LD50: > 5,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

##### **STEARAMIDE MEA:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### **AMMONIUM HYDROXIDE:**

Acute oral toxicity : LD50 (Rat, male): 350 mg/kg  
Method: OECD Test Guideline 401

### **PEG-2 OLEAMINE:**

Acute oral toxicity : LD50 (Rat, male and female): 1,260 mg/kg  
Method: OECD Test Guideline 401

### **1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.24 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

### **ETHANOLAMINE:**

Acute oral toxicity : LD50 (Rat, male and female): 1,089 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): 520 ppm  
Exposure time: 6 h  
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit, male and female): 2,504 mg/kg  
Method: OECD Test Guideline 402

### **4-AMINO-2-HYDROXYTOLUENE:**

Acute oral toxicity : LD50 (Rat, male and female): 3,600 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 42.57 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): 5,688 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **p-AMINOPHENOL:**

Acute oral toxicity : LD50 (Rat, male and female): 671 mg/kg  
Method: OPPTS 870.1100

Acute inhalation toxicity : LC50 (Rat, male and female): > 3.42 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 8,000 mg/kg  
Method: OPPTS 870.1200

### **p-PHENYLENEDIAMINE:**

Acute oral toxicity : LD50 (Rat, male and female): 75 mg/kg  
Method: OECD Test Guideline 420

Acute inhalation toxicity : LC50 (Rat, male): 0.92 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

### **RESORCINOL:**

Acute oral toxicity : LD50 (Rat, male and female): 510 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, male): 2,830 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:**

Acute oral toxicity : LD0 (Rat, female): 500 mg/kg  
Method: OECD Test Guideline 420  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute dermal toxicity : LD0 (Rat, female): 500 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

### **N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE:**

Acute oral toxicity : LD50 (Rat, male): 246 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): 0.90 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50: 428 mg/kg

### **m-AMINOPHENOL:**

Acute oral toxicity : LD50 (Rat, male and female): > 500 - 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 1.162 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 8,112 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **2-METHYLRESORCINOL:**

Acute oral toxicity : LD50 (Rat): 200 mg/kg

### **Skin corrosion/irritation**

Causes severe burns.

### **Components:**

#### **COCAMIDE MEA:**

Species : Rabbit  
Result : Skin irritation

#### **STEARAMIDE MEA:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation  
Remarks : Based on data from similar materials

#### **AMMONIUM HYDROXIDE:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes to 1 hour of exposure

#### **PEG-2 OLEAMINE:**

Species : Rabbit

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes to 1 hour of exposure

### 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE:

Species : Rabbit  
Result : No skin irritation

### ETHANOLAMINE:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes to 1 hour of exposure

Remarks : Extremely corrosive and destructive to tissue.

### 4-AMINO-2-HYDROXYTOLUENE:

Species : human skin  
Method : OECD Test Guideline 431  
Result : No skin irritation

### p-AMINOPHENOL:

Species : Rabbit  
Result : No skin irritation

### p-PHENYLENEDIAMINE:

Species : Guinea pig  
Result : No skin irritation

### RESORCINOL:

Species : Rabbit  
Result : Skin irritation

### HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:

Species : reconstructed human epidermis (RhE)  
Method : OECD Test Guideline 439  
Result : No skin irritation

### N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE:

Species : Rabbit  
Result : No skin irritation

### m-AMINOPHENOL:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

### **2-METHYLRESORCINOL:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Product:**

Remarks : May cause irreversible eye damage.

#### **Components:**

### **COCAMIDE MEA:**

Species : Rabbit  
Result : Irreversible effects on the eye

### **STEARAMIDE MEA:**

Species : Rabbit  
Result : Irreversible effects on the eye  
Method : OECD Test Guideline 405  
Remarks : Based on data from similar materials

### **PEG-2 OLEAMINE:**

Result : Irreversible effects on the eye

### **1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE:**

Species : Rabbit  
Result : Irreversible effects on the eye

### **ETHANOLAMINE:**

Species : Rabbit  
Result : Irreversible effects on the eye  
Method : OECD Test Guideline 405

Remarks : May cause irreversible eye damage.

### **4-AMINO-2-HYDROXYTOLUENE:**

Species : Non-standard test species  
Result : No eye irritation  
Method : OECD Test Guideline 438

### **p-AMINOPHENOL:**

Species : Rabbit  
Result : No eye irritation

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

### **p-PHENYLENEDIAMINE:**

Species : Rabbit  
Result : Eye irritation  
Method : OECD Test Guideline 405

### **RESORCINOL:**

Species : Rabbit  
Result : Eye irritation

### **HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:**

Result : Eye irritation

### **N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE:**

Species : Rabbit  
Result : Eye irritation

### **m-AMINOPHENOL:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

### **2-METHYLRESORCINOL:**

Species : Rabbit  
Result : Irreversible effects on the eye  
Method : OECD Test Guideline 405

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Based on available data, the classification criteria are not met.

#### **Product:**

Remarks : May cause sensitization.

### **Components:**

#### **STEARAMIDE MEA:**

Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.  
Remarks : Based on data from similar materials

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

### PEG-2 OLEAMINE:

Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.

### 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE:

Routes of exposure : Skin contact  
Species : Guinea pig  
Result : May cause sensitization by skin contact.

### ETHANOLAMINE:

Routes of exposure : Skin contact  
Species : Guinea pig  
Result : Does not cause skin sensitization.

### 4-AMINO-2-HYDROXYTOLUENE:

Routes of exposure : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitizer, sub-category 1A.

### p-AMINOPHENOL:

Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitization by skin contact.

### p-PHENYLENEDIAMINE:

Routes of exposure : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitizer, sub-category 1A.

### RESORCINOL:

Routes of exposure : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitizer, sub-category 1B.

### HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:

Routes of exposure : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitizer, sub-category 1B.

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

### **N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE:**

Routes of exposure : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitizer, sub-category 1A.

### **m-AMINOPHENOL:**

Routes of exposure : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitizer, sub-category 1A.

### **2-METHYLRESORCINOL:**

Routes of exposure : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitization by skin contact.

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

### **Components:**

#### **STEARAMIDE MEA:**

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

#### **AMMONIUM HYDROXIDE:**

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

#### **PEG-2 OLEAMINE:**

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

#### **p-AMINOPHENOL:**

Germ cell mutagenicity - Assessment : In vitro tests showed mutagenic effects

#### **RESORCINOL:**

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

#### **HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:**

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-41000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

### **N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE:**

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### **Carcinogenicity**

Based on available data, the classification criteria are not met.

### **Components:**

#### **STEARAMIDE MEA:**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

#### **PEG-2 OLEAMINE:**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

Based on available data, the classification criteria are not met.

### **Components:**

#### **STEARAMIDE MEA:**

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

#### **PEG-2 OLEAMINE:**

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

#### **p-AMINOPHENOL:**

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

#### **RESORCINOL:**

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

### HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### STOT-single exposure

Based on available data, the classification criteria are not met.

### Components:

#### AMMONIUM HYDROXIDE:

Routes of exposure : Inhalation  
Assessment : May cause respiratory irritation.

#### ETHANOLAMINE:

Assessment : May cause respiratory irritation.

#### RESORCINOL:

Routes of exposure : Ingestion  
Target Organs : Nervous system  
Assessment : Causes damage to organs.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Components:

#### p-AMINOPHENOL:

Routes of exposure : Ingestion  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

#### p-PHENYLENEDIAMINE:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### m-AMINOPHENOL:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

### Components:

#### STEARAMIDE MEA:

Species : Rat, male and female  
NOAEL : > 750 mg/kg

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

Application Route : Oral  
Exposure time : 28 d  
Method : OECD Test Guideline 407  
Remarks : No adverse effect has been observed in chronic toxicity tests.

Species : Rat, male  
NOAEL : 50 mg/kg  
Application Route : Dermal  
Exposure time : 90 d  
Method : OECD Test Guideline 407  
Remarks : No adverse effect has been observed in chronic toxicity tests.

### **PEG-2 OLEAMINE:**

Species : Rat, male and female  
NOAEL : 30 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408

### **p-AMINOPHENOL:**

Species : Rat, male and female  
NOAEL : 10 mg/kg  
Application Route : Oral  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 408

### **p-PHENYLENEDIAMINE:**

Species : Rat, male and female  
NOAEL : 16 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408

### **RESORCINOL:**

Species : Rat, male and female  
NOAEL : 80 mg/kg  
Application Route : Oral  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 408

### **HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:**

Species : Rat, male and female  
NOAEL : 30 mg/kg  
Application Route : Oral  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 408

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

### **m-AMINOPHENOL:**

Species : Rat, male and female  
NOAEL : 70 mg/kg  
Application Route : Oral  
Exposure time : 13 Weeks

Species : Rat, male and female  
NOAEL : 0.59 mg/kg  
Application Route : Dermal  
Exposure time : 2 yr

### **Aspiration toxicity**

Based on available data, the classification criteria are not met.

### **Further information**

#### **Product:**

Remarks : The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

#### **Components:**

##### **ETHANOLAMINE:**

Remarks : The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

---

## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Components:**

##### **COCAMIDE MEA:**

Toxicity to fish : LC50 (Fish): > 10 - 100 mg/l

Toxicity to daphnia and other aquatic invertebrates : EC50: > 1 - 10 mg/l

Toxicity to algae/aquatic plants : EC50 (algae): > 1 - 10 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0.01 - 0.1 mg/l

Toxicity to microorganisms : EC10 (activated sludge): > 100 mg/l

---

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

### STEARAMIDE MEA:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 3 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : ErC50: 8.7 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.32 mg/l  
Exposure time: 28 d  
Method: OECD Test Guideline 215  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

### AMMONIUM HYDROXIDE:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.75 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 101 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 1.2 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.79 mg/l  
Exposure time: 21 d  
Method: OPPTS 850.1300

### PEG-2 OLEAMINE:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.1 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.04 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.05 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 0.01 mg/l  
Exposure time: 35 d  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): 0.05 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

### 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 86.23 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 11.12 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 62.57 mg/l  
Exposure time: 72 h

### ETHANOLAMINE:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 349 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 27.04 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 2.8 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Japanese medaka)): 1.24 mg/l  
Exposure time: 41 d  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.85 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 202

### 4-AMINO-2-HYDROXYTOLUENE:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 25 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2.3 mg/l

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

aquatic invertebrates      Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: No toxicity at the limit of solubility.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 41 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.24 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

### **p-AMINOPHENOL:**

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 0.82 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.182 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.253 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)): 0.083 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Japanese medaka)): 0.049 mg/l  
Exposure time: 41 d  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.206 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 202

### **p-PHENYLENEDIAMINE:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.9 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.28 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Chlorella vulgaris (Fresh water algae)): 0.27 mg/l  
Exposure time: 72 h

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.0051 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

### RESORCINOL:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 29.50 mg/l  
Exposure time: 96 h  
Method: EPA-660/3-75-009

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 97 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)): 47 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 320 mg/l  
Exposure time: 60 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 0.172 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

### Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.8 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 12 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)): 0.38 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE:

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 235 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.381 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.338 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 0.272 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.674 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

### **m-AMINOPHENOL:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.267 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 67.7 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 37.8 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Japanese medaka)): 50 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.05 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 202

### **2-METHYLRESORCINOL:**

Toxicity to fish : LC50 (Fish): 58.1 mg/l

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.605 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 71 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Fish): 6.941 mg/l  
Exposure time: 30 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 42.027 mg/l  
Exposure time: 21 d

### Persistence and degradability

#### Components:

##### **COCAMIDE MEA:**

Biodegradability : Result: Readily biodegradable.

##### **STEARAMIDE MEA:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 69 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

##### **AMMONIUM HYDROXIDE:**

Biodegradability : Result: Readily biodegradable.

##### **PEG-2 OLEAMINE:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 60 %  
Exposure time: 10 d  
Method: OECD Test Guideline 301D

##### **1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 33.3 %  
Exposure time: 28 d

##### **ETHANOLAMINE:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 90 %  
Exposure time: 21 d

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

Method: OECD Test Guideline 301A

### 4-AMINO-2-HYDROXYTOLUENE:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: < 0.01 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### p-AMINOPHENOL:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 6 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

### p-PHENYLENEDIAMINE:

Biodegradability : Result: Not inherently biodegradable.  
Biodegradation: 30 %  
Exposure time: 84 d  
Method: OECD Test Guideline 301D

### RESORCINOL:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 66.7 %  
Exposure time: 14 d  
Method: OECD Test Guideline 301C

### HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 19.2 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 14.3 %  
Exposure time: 29 d  
Method: OECD Test Guideline 301B

### m-AMINOPHENOL:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### 2-METHYLRESORCINOL:

Biodegradability : Result: Readily biodegradable.

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

Biodegradation: 64 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### Bioaccumulative potential

#### Components:

##### **COCAMIDE MEA:**

Partition coefficient: n-octanol/water : log Pow: 2.86

##### **STEARAMIDE MEA:**

Bioaccumulation : Bioconcentration factor (BCF): 172.36

##### **PEG-2 OLEAMINE:**

Bioaccumulation : Bioconcentration factor (BCF): 1.37

Partition coefficient: n-octanol/water : log Pow: 3.4  
pH: 5.5  
Method: OECD Test Guideline 123

##### **ETHANOLAMINE:**

Bioaccumulation : Bioconcentration factor (BCF): 2.50

Partition coefficient: n-octanol/water : Remarks: Not applicable

##### **4-AMINO-2-HYDROXYTOLUENE:**

Partition coefficient: n-octanol/water : log Pow: 0.53  
pH: 7.22  
Method: OECD Test Guideline 117

##### **RESORCINOL:**

Bioaccumulation : Bioconcentration factor (BCF): 3.16

Partition coefficient: n-octanol/water : log Pow: 0.8

##### **HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:**

Partition coefficient: n-octanol/water : log Pow: -3.1  
Method: OECD Test Guideline 117

##### **m-AMINOPHENOL:**

Bioaccumulation : Bioconcentration factor (BCF): 4

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

### **2-METHYLRESORCINOL:**

Bioaccumulation : Bioconcentration factor (BCF): 5.12

### **Mobility in soil**

No data available

### **Other adverse effects**

### **Product:**

Additional ecological information : The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

### **Components:**

### **ETHANOLAMINE:**

Additional ecological information : The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Send to a licensed waste management company.

Contaminated packaging : Do not re-use empty containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

## SECTION 14. TRANSPORT INFORMATION

### **Domestic regulation**

#### **49 CFR**

UN/ID/NA number : UN 3267  
Proper shipping name : Corrosive liquid, basic, organic, n.o.s.  
(Ammonium hydroxide, Peg-2 Oleamine)  
Class : 8  
Packing group : II  
Labels : CORROSIVE  
ERG Code : 153  
Marine pollutant : yes(Ammonium hydroxide, Peg-2 Oleamine)

### **International Regulations**

#### **IATA-DGR**

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

---

UN/ID No. : UN 3267  
Proper shipping name : Corrosive liquid, basic, organic, n.o.s.  
(Ammonium hydroxide, Peg-2 Oleamine)  
Class : 8  
Packing group : II  
Labels : Corrosive  
Packing instruction (cargo aircraft) : 855  
Packing instruction (passenger aircraft) : 851

### IMDG-Code

UN number : UN 3267  
Proper shipping name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
(AMMONIUM HYDROXIDE, PEG-2 OLEAMINE)  
Class : 8  
Packing group : II  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : yes

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### Special precautions for user

Remarks : Materials may be offered as a limited quantity when in containers of 1 liters or less, except for IATA.  
Materials may be offered as a limited quantity by IATA when in containers of 100 mL or less.

---

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Respiratory or skin sensitization  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

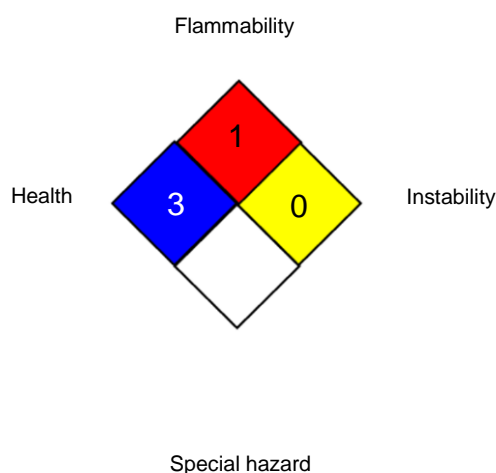
Version 1.0      Revision Date: 08/19/2025      SDS Number: 80-21-410000002427      Date of last issue: -  
Date of first issue: 08/19/2025

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

### SECTION 16. OTHER INFORMATION

#### Further information

#### NFPA 704:



#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
NIOSH REL : USA. NIOSH Recommended Exposure Limits  
OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek  
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday  
OSHA P0 / TWA : 8-hour time weighted average  
OSHA P0 / STEL : Short-term exposure limit  
OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely

# SAFETY DATA SHEET

## MATRIX SOCOLOR PRE-BONDED PERMANENT HAIR COLOR - GROUP 1

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	08/19/2025	80-21- 410000002427	Date of first issue: 08/19/2025

---

Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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.

Revision Date : 08/19/2025

US / EN