

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

MAJIREL GLOW PERMANENT HAIR COLOURS - GROUP 6

of the mixture

Synonyms None.

SDS number 00-21-0000228 **Issue date** 04-18-2019

Version number 0

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Personal care product used for cosmetic effect.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Address Productos Capilares L'Oreal SA

Poligono Industrial de Villalonquejar - Calle López Bravo - 78 Apartado 517

Burgos 09001

Spain

Emergency Phone #: + 34 947 258 300

For further Information: +1-732-499-2741

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation Category 2 H315 - Causes skin irritation.
Serious eye damage/eye irritation Category 1 H318 - Causes serious eye

damage.

Skin sensitization Category 1A H317 - May cause an allergic skin

reaction.

SDS FII

Environmental hazards

long-term aquatic hazard

Hazardous to the aquatic environment, Category 2 H411 - Toxic to aquatic life with

long lasting effects.

Hazard summary Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction.

Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects. This is a consumer care product that is safe for consumers when used according to the label directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and / or swelling

upon prolonged or repeated skin contact or eye contact.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 2,4-DIAMINOPHENOXYETHANOL HCL, 2-METHYLRESORCINOL,

4-AMINO-2-HYDROXYTOLUENE, 4-amino-m-cresol, 6-HYDROXYINDOLE, AMMONIUM

HYDROXIDE, BASIC ORANGE 31, M-AMINOPHENOL,

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE, P-AMINOPHENOL,

RESORCINOL, TOLUENE-2,5-DIAMINE

Hazard pictograms



Signal word Danger

Hazard statements

Causes skin irritation. H315

May cause an allergic skin reaction. H317 Causes serious eve damage. H318

Toxic to aquatic life with long lasting effects. H411

Precautionary statements

Prevention

Keep out of reach of children. P102 Read label before use. P103 Do not breathe vapor. P260

Wash thoroughly after handling. P264

Contaminated work clothing should not be allowed out of the workplace. P272

Avoid release to the environment. P273 Wear eye protection/face protection. P280

Wear protective gloves. P280

Response

If medical advice is needed, have product container or label at hand. P101

IF ON SKIN: Wash with plenty of water. P302 + P352

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338

and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P310

If skin irritation or rash occurs: Get medical advice/attention. P333 + P313 Take off contaminated clothing and wash it before reuse. P362 + P364

Collect spillage. P391

Store away from incompatible materials. Storage

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Supplemental label information 5,4% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 12,29% of the mixture consists of component(s) of unknown long-term hazards to

the aquatic environment.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Classification:

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
AMMONIUM HYDROXID	E	3,29	1336-21-6 215-647-6	01-2119982985-14	007-001-01-2	#
Classification:	Acute Tox. 4 Acute 1;H40		kin Corr. 1B;H314, Ey	e Dam. 1;H318, STOT SE 3;I	H335, Aquatic	
HEXADIMETHRINE CHL	ORIDE	3	68393-49-7 672-780-6	-	-	
Classification:	Aquatic Chr	onic 1;H4	10			
TOLUENE-2,5-DIAMINE		1,78	95-70-5 202-442-1	01-2120136877-44	612-125-00-3	
Classification:			cute Tox. 4;H312, Ski Chronic 2;H411	n Sens. 1A;H317, Eye Dam.	1;H318, Acute	
RESORCINOL		1,68	108-46-3 203-585-2	01-2119480136-40	604-010-00-1	#
Classification:	Acute Tox. 4;H302, Skin Irrit. 2;H315, Skin Sens. 1A;H317, Eye Irrit. 2;H319, STOT SE 1;H370, Aquatic Acute 1;H400, Aquatic Chronic 3;H412					
2,4-DIAMINOPHENOXYI	ETHANOL	0,35	66422-95-5 266-357-1	01-2120011817-60	-	

Acute Tox. 4;H302, Skin Sens. 1B;H317, Eye Irrit. 2;H319, Aquatic Chronic 2;H411

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
M-AMINOPHENOL		0,32	591-27-5 209-711-2	01-2119930678-27	612-127-00-4	
Classification:	Acute Tox. 4;I	1302, Sk	in Sens. 1A;H317, Ad	eute Tox. 4;H332, Aquatic Chi	ronic 2;H411	
P-AMINOPHENOL		0,27	123-30-8 204-616-2	01-2119535388-31	612-128-00-X	
Classification:	Acute Tox. 4;I Chronic 1;H41		in Sens. 1;H317, Acu	te Tox. 4;H332, Muta. 2;H341	I, Aquatic	
2-METHYLRESORCINOL	-	0,26	608-25-3 210-155-8	01-2120030526-64	-	
Classification:	Acute Tox. 3;H Acute 1;H400	,	in Sens. 1B;H317, Ey	re Dam. 1;H318, STOT SE 3;	H335, Aquatic	
BASIC RED 51		0,26	77061-58-6 278-601-4	-	-	
Classification:	Acute Tox. 4;I	Н302, Ey	e Irrit. 2;H319, Aquati	c Chronic 1;H410		
4-AMINO-2-HYDROXYTO	DLUENE	0,22	2835-95-2 220-618-6	01-2120766272-54	-	
Classification:	Skin Sens. 1A	;H317, <i>A</i>	Aquatic Chronic 2;H41	1		
BASIC ORANGE 31		0,13	97404-02-9 306-764-4	-	-	
Classification:	Acute Tox. 4;H	1302, Sk	in Sens. 1A;H317, Ey	e Dam. 1;H318, Aquatic Chro	onic 2;H411	
N,N-BIS(2-HYDROXYETI NYLENEDIAMINE SULFA		0,11	54381-16-7 259-134-5	01-2120762993-40	-	
Classification:	Acute Tox. 3;H Aquatic Chror			re Irrit. 2;H319, Aquatic Acute	1;H400,	

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The full text for all H-statements is displayed in section 16. **Composition comments**

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

4.2. Most important symptoms and effects, both acute and

and special treatment needed

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Provide general supportive measures and treat symptomatically. Keep victim under observation. 4.3. Indication of any immediate medical attention

Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted. 5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

procedures

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other

sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe vapor. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene

7.2. Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Keep out of the reach of children. Store away from

incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

practices.

8.1. Control parameters

Occupational exposure limits

Belgium. Exposure Limit Values.

Components	Туре	Value	
RESORCINOL (CAS 108-46-3)	STEL	91 mg/m3	
		20 ppm	
	TWA	46 mg/m3	
		10 ppm	
France. Threshold Limit Values (VLEP) for Occupational Expos	sure to Chemicals in France, INRS ED 984	
Components	Туре	Value	
AMMONIUM HYDROXIDE (CAS 1336-21-6)	VLE	14 mg/m3	
•		20 ppm	
	VME	7 mg/m3	

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Components	ues (VLEP) for Occupational Expos Type	ure to Chemicals in France, i Value	IND3 EU 384
RESORCINOL (CAS	VME	10 ppm 45 mg/m3	
108-46-3)		10 ppm	
Germany. TRGS 900, Limit V Components	alues in the Ambient Air at the Wo Type	rkplace Value	Form
AMMONIUM HYDROXIDE	AGW	14 mg/m3	
(CAS 1336-21-6)	AGW	· ·	
RESORCINOL (CAS	AGW	20 ppm 20 mg/m3	Inhalable fraction.
108-46-3)	nav	4 ppm	Inhalable fraction.
Italy. Occupational Exposure	e Limits	4 ррш	ililalable fraction.
Components	Туре	Value	
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	36 mg/m3	
(50 ppm	
	TWA	14 mg/m3	
DECODORIO (CAS		20 ppm	
RESORCINOL (CAS 108-46-3)	TWA	45 mg/m3	
100-40-3)		10 ppm	
	egarding maximum permissible co	• •	of harmful factors in the w
environment, Annex 1 Components	Туре	Value	Form
AMMONIUM HYDROXIDE	STEL	28 mg/m3	
(CAS 1336-21-6)		-	
	TWA	14 mg/m3	
P-AMINOPHENOL (CAS 123-30-8)	TWA	5 mg/m3	Inhalable fraction.
RESORCINOL (CAS 108-46-3)	STEL	90 mg/m3	
	TWA	45 mg/m3	
Spain. Occupational Exposu	ıre Limits		
Components	Туре	Value	
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	36 mg/m3	
,		50 ppm	
	TWA	14 mg/m3	
		20 ppm	
RESORCINOL (CAS 108-46-3)	TWA	46 mg/m3	
		10 ppm	
EU. Indicative Exposure Lim Components	it Values in Directives 91/322/EEC, Type	2000/39/EC, 2006/15/EC, 200 Value	9/161/EU
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	36 mg/m3	
(5/10 1000-21-0)		50 ppm	
	TWA	14 mg/m3	
		20 ppm	
RESORCINOL (CAS 108-46-3)	TWA	45 mg/m3	
		10 ppm	
ogical limit values	No biological exposure limits noted	- , ,	
ommended monitoring cedures	Follow standard monitoring procedu	res.	
ved no effect levels ELs)	Not available.		
dicted no effect	Not available.		

Exposure guidelines

EU Exposure Limit Values: Skin designation

RESORCINOL (CAS 108-46-3)

Can be absorbed through the skin.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

RESORCINOL (CAS 108-46-3)

Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide

eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

General informationUse personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Face shield is

recommended.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. **Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid.

Color Shaded

Odor Not available. Characteristic.

Odor threshold Not available.

pH 10

Melting point/freezing point Not available.

Initial boiling point and boiling > 212 °F (> 100 °C)

range

Flash point > 212,0 °F (> 100,0 °C) Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

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Not available. **Viscosity** Not explosive. **Explosive properties** Not oxidizing. Oxidizing properties

9.2. Other information

0,970 g/cm³ Density

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Contact with incompatible materials.

10.5. Incompatible materials Strong oxidizing agents.

No hazardous decomposition products are known. 10.6. Hazardous

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation Inhalation

may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred **Symptoms**

vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

11.1. Information on toxicological effects

Acute toxicity Not known.

Test Results Components **Species**

2,4-DIAMINOPHENOXYETHANOL HCL (CAS 66422-95-5)

Acute Oral

1000 mg/kg OECD 401 LD50 Rat

2-METHYLRESORCINOL (CAS 608-25-3)

<u>Acute</u>

Oral

LC50 Rat 200 mg/kg

4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2)

Acute Oral

LD50 Rat 3600 mg/kg

AMMONIUM HYDROXIDE (CAS 1336-21-6)

Acute Inhalation

LC50 Rat 11590 mg/l, 1 h

Oral

LD50 Rat 350 mg/kg bw OECD 401

BASIC ORANGE 31 (CAS 97404-02-9)

Acute Dermal

LD50 Rat > 2000 mg/kg OECD 402

Oral

LD50 Rat 1278 mg/kg

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Test Results Components **Species** BASIC RED 51 (CAS 77061-58-6) **Acute Dermal** LD50 Rat > 2000 mg/kg OECD 402 Oral LD50 Rat > 1000 mg/kg HEXADIMETHRINE CHLORIDE (CAS 68393-49-7) **Acute Dermal** LD50 Rabbit > 2000 mg/kg OECD 402 Oral LD50 Rat > 2000 mg/kg OECD 420 M-AMINOPHENOL (CAS 591-27-5) **Acute** Inhalation LC50 1162 mg/m3 Rat Oral LD50 Rat 924 mg/kg N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE (CAS 54381-16-7) **Acute** Oral LD50 Rat 264 mg/kg P-AMINOPHENOL (CAS 123-30-8) **Acute Dermal** LD50 Rabbit > 8000 mg/kg EPA OPTTS 870.1200 Inhalation Dust LC50 Rat > 3,42 mg/l, 4 h OECD 403 Oral LD50 Rat 671 mg/kg EPA OPPTS 870.1100 RESORCINOL (CAS 108-46-3) **Acute** Dermal LD50 Rabbit 2830 mg/kg FHSL Act Inhalation Aerosol LC0 Rat > 7800 mg/m³, 1 h FHSL Act Oral LD50 Rat 510 mg/kg OECD 401 TOLUENE-2,5-DIAMINE (CAS 95-70-5)

Oral

LD50 102 mg/kg OECD 401 Rat

Acute

Dermal

LD50 Rabbit 3520 mg/kg

Inhalation

Dust

LC50 Rat 0,99 mg/l, 4 h

Skin corrosion/irritation Causes skin irritation.

^{*} Estimates for product may be based on additional component data not shown.

Irritation Corrosion - Skin

RESORCINOL FHLS Act, (100%)

Result: Irritating Species: Rabbit

AMMONIUM HYDROXIDE **OECD 404** Result: Corrosive

Species: Rat **OECD 404**

HEXADIMETHRINE CHLORIDE Result: Not Irritating

2,4-DIAMINOPHENOXYETHANOL HCL **OECD 404**

> Result: Not Irritating Species: Rabbit **OECD 404**

BASIC ORANGE 31 Result: Not Irritating

Species: Rabbit **OECD 404**

BASIC RED 51 Result: Not Irritating

> Species: Rabbit **OECD 404**

M-AMINOPHENOL Result: Not Irritating

Species: Rabbit

2-METHYLRESORCINOL **OECD 404**

Result: Slightly Irritating Species: Rabbit

RESORCINOL OECD 404, (2,5%) Result: Not Irritating

Species: Rabbit

OECD 439 N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI

NE SULFATE Result: Not Irritating Species: In vitro

OECD 439 Result: Not Irritating

Species: In vitro **OECD 439**

4-AMINO-2-HYDROXYTOLUENE Result: Not Irritating

Species: RhE

P-AMINOPHENOL Result: Slightly Irritating

Species: Rabbit

Serious eye damage/eye irritation

Causes serious eye damage.

Irritation Corrosion - Eye

TOLUENE-2,5-DIAMINE

BASIC RED 51

TOLUENE-2,5-DIAMINE

P-AMINOPHENOL **EPA OPPTS 870.2400**

Result: Slightly Irritating Species: Rabbit

RESORCINOL FHLS Act, (100%)

> Result: Corrosive Species: Rabbit **OECD 405**

2-METHYLRESORCINOL Result: Corrosive

Species: Rabbit **OECD 405**

BASIC ORANGE 31 Result: Corrosive Species: Rabbit

> **OECD 405** Result: Corrosive Species: Rabbit

2,4-DIAMINOPHENOXYETHANOL HCL **OECD 405** Result: Irritating

Species: Rabbit **OECD 405** Result: Irritating

Species: Rat HEXADIMETHRINE CHLORIDE **OECD 405**

Result: Not Irritating

M-AMINOPHENOL **OECD 405**

> Result: Not Irritating Species: Rabbit

RESORCINOL OECD 405, (2,5%) Result: Not Irritating

Species: Rabbit

Irritation Corrosion - Eye

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI

NE SULFATE

Result: Irritating Species: In vitro

OECD 438

4-AMINO-2-HYDROXYTOLUENE

OECD 492 Result: Not Irritating

Species: RhCE AMMONIUM HYDROXIDE Result: Corrosive

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization May cause an allergic skin reaction.

Skin sensitization

BASIC RED 51

Result: Not Sensitizing Species: Guinea pig

P-AMINOPHENOL **OECD 406**

> Result: Sensitizing Species: Guinea pig

HEXADIMETHRINE CHI ORIDE **OECD 429**

Result: Not Sensitizing

Species: Mouse

OECD 429 2,4-DIAMINOPHENOXYETHANOL HCL

Result: Sensitizing Species: Mouse

2-METHYLRESORCINOL **OECD 429**

Result: Sensitizing Species: Mouse

4-AMINO-2-HYDROXYTOLUENE **OECD 429**

Result: Sensitizing Species: Mouse

OECD 429 BASIC ORANGE 31

Result: Sensitizing Species: Mouse

OECD 429 M-AMINOPHENOL

> Result: Sensitizing Species: Mouse

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI

NE SULFATE

Result: Sensitizing Species: Mouse

OECD 429

RESORCINOL OECD 429

Result: Sensitizing

TOLUENE-2,5-DIAMINE

Species: Mouse **OECD 429** Result: Sensitizina

Species: Mouse AMMONIUM HYDROXIDE Result: Not Sensitzing

Species: Guinea pig

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Mutagenicity

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI

NE SULFATE

AMMONIUM HYDROXIDE HEXADIMETHRINE CHLORIDE

2,4-DIAMINOPHENOXYETHANOL HCL

Result: In vitro tests showed mutagenic effects which were

Result: In vitro and in vivo tests did not show mutagenic

Result: In vitro tests did not show mutagenic effects

Result: In vitro tests did not show mutagenic effects

not observed with in vivo test. 2-METHYLRESORCINOL Result: In vitro tests showed mutagenic effects which were

not observed with in vivo test. **BASIC ORANGE 31**

Result: In vitro tests showed mutagenic effects which were not observed with in vivo test.

BASIC RED 51 Result: In vitro tests showed mutagenic effects which were not observed with in vivo test.

M-AMINOPHENOL Result: In vitro tests showed mutagenic effects which were

not observed with in vivo test.

Result: In vitro tests showed mutagenic effects which were RESORCINOL

not observed with in vivo test.

TOLUENE-2,5-DIAMINE Result: In vitro tests showed mutagenic effects which were

not observed with in vivo test.

4-AMINO-2-HYDROXYTOLUENE Result: In vitro tests showed mutagenic effects which were

not observed with in vivo tests.

P-AMINOPHENOL Result: In vivo tests showed mutagenic effects

Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the classification is not possible.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

TOLUENE-2,5-DIAMINE (CAS 95-70-5)

IARC Monographs. Overall Evaluation of Carcinogenicity

RESORCINOL (CAS 108-46-3)

3 Not classifiable as to carcinogenicity to humans.

TOLUENE-2,5-DIAMINE (CAS 95-70-5)

3 Not classifiable as to carcinogenicity to humans.

Slovenia. CMR. Protection of workers from exposure to carcinogen and mutagen agents (ULRS 101/2005, as amended)

TOLUENE-2,5-DIAMINE (CAS 95-70-5)

Carcinogenic, Category 1B.

Reproductive toxicityDue to partial or complete lack of data the classification is not possible.

Developmental effects

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI >= 50 mg/kg bw/d OECD 414

NE SULFATE Result: NOAEL Species: Rat

M-AMINOPHENOL 100 mg/kg bw/d OECD 414

Result: NOAEL Species: Rat

P-AMINOPHENOL 100 mg/kg bw/d OECD 421

Result: NOAEL Species: Rat

4-AMINO-2-HYDROXYTOLUENE 180 mg/kg bw/d OECD 414

Result: NOAEL Species: Rat

BASIC RED 51 180 mg/kg bw/d OECD 414

Result: NOEL Species: Rat

2,4-DIAMINOPHENOXYETHANOL HCL 20 mg/kg bw/d OECD 414

Result: NOAEL Species: Rat

RESORCINOL 250 mg/kg bw/d OECD 414

Result: NOAEL Species: Rat

2-METHYLRESORCINOL 400 mg/kg bw/d OECD 414

Result: NOAEL Species: Rat

TOLUENE-2,5-DIAMINE 50 mg/kg bw/d OECD 414, Based on test data for structurally

similar materials. Result: NOAEL Species: Rat 60 mg/kg bw/d

BASIC ORANGE 31 60 mg/kg bw/d
Result: NOAEL
Species: Rat

Reproductivity

TOLUENE-2,5-DIAMINE >= 45 mg/kg bw/d OECD 416, Based on test data for

structurally similar materials.

Result: NOAEL Species: Rat

P-AMINOPHENOL 100 mg/kg bw/d OECD 421

Result: NOAEL Species: Rat

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI

NE SULFATE

Specific target organ toxicity -

20 mg/kg bw/d OECD 408 Result: NOAEL

Species: Rat Test Duration: 90 d

4-AMINO-2-HYDROXYTOLUENE 200 mg/kg bw/d OECD 415

Result: NOAEL Species: Rat

RESORCINOL 245 mg/kg bw/d OECD 416

Result: NOAEL Species: Bat

Due to partial or complete lack of data the classification is not possible.

Species: Rat

single exposure

AMMONIUM HYDROXIDE Result: Highly Irritating

Specific target organ toxicity - Due to partial or complete lack of data the classification is not possible.

repeated exposure

BASIC RED 51 10 mg/kg bw/d OECD 408

Result: NOAEL Species: Rat Test Duration: 90 d

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Specific target organ toxicity -

repeated exposure

P-AMINOPHENOL 10 mg/kg bw/d OECD 408

Result: NOAEL Species: Rat Test Duration: 90 d

TOLUENE-2,5-DIAMINE 10 mg/kg bw/d OECD 408, Oral

Result: NOEAL Species: Rat Test Duration: 90 d

2-METHYLRESORCINOL 100 mg/kg bw/d OECD 408

> Result: NOAEL Species: Rat Test Duration: 90 d

4-AMINO-2-HYDROXYTOLUENE 180 mg/kg bw/d OECD 408, Oral

Result: NOAEL Species: Rat Test Duration: 90 d

2,4-DIAMINOPHENOXYETHANOL HCL 20 mg/kg bw/d OECD 408

Result: NOAEL Species: Rat Test Duration: 90 d

M-AMINOPHENOL 20 mg/kg bw/d OECD 408

Result: NOAEL Species: Rat Test Duration: 90 d

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE

SULFATE

20 mg/kg bw/d OECD 408

Result: NOAEL Species: Rat Test Duration: 90 d

BASIC ORANGE 31 60 mg/kg bw/d OECD 408, Oral

> Result: NOAEL Species: Rat Test Duration: 90 d

RESORCINOL 80 mg/kg bw/d OECD 408, Oral

Result: NOAEL Species: Rat Test Duration: 90 d 991 mg/m³ Result: NOAEC Species: Rat Test Duration: 14 d

Due to partial or complete lack of data the classification is not possible. **Aspiration hazard**

Mixture versus substance

information

No information available.

Other information May cause allergic respiratory and skin reactions.

SECTION 12: Ecological information

Toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are 12.1. Toxicity

not met for hazardous to the aquatic environment, acute hazard.

Components **Test Results Species**

2,4-DIAMINOPHENOXYETHANOL HCL (CAS 66422-95-5)

Aquatic Acute

EC50 Algae

Pseudokirchneriella subcapitata 36,5 mg/l, 72 h OECD 201 Crustacea EC50 Daphnia magna 7,4 mg/l, 48 h OECD 202

2-METHYLRESORCINOL (CAS 608-25-3)

Aquatic

Acute

Algae EC50 Pseudokirchneriella subcapitata 71 mg/l, 72 h OECD 201 Crustacea EC50 0,605 mg/l, 48 h OECD 202 Daphnia magna

Fish LC50 Danio rerio 58,1 mg/l, 96 h

Other EC50 Activated sludge of a predominantly 131 mg/l, 3 h OECD 209

domestic sewage

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Components Species Test Results

4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2)

Compone	าแอ		Species	rest nesuits
4-AMINO-2	2-HYDROXYTOLUENE	(CAS 2835-95-2	2)	
	quatic			
	lcute	F050	B 11:1 : 1 : 1 : 1 : 1 : 1	44
	llgae	EC50	Pseudokirchneriella subcapitata	41 mg/l, 72 h OECD 201
	crustacea 	EC50	Daphnia magna	2,3 mg/l, 48 h OECD 202
	ïsh	LC50	Danio rerio	25 mg/l, 96 h OECD 236
	Other	EC50	Activated sludge of a predominantly domestic sewage	> 150 mg/l, 3 h OECD 209
	Chronic Crustacea	NOEC	Danhaia magna	0.24 mg/l 21 d OECD 211
			Daphnia magna	0,24 mg/l, 21 d OECD 211
	IM HYDROXIDE (CAS equatic	1336-21-6)		
	cute			
	lgae	EC50	Chlorella vulgaris	2700 mg/l, 18 d
	rustacea	EC50	Daphnia magna	101 mg/l, 48 h ASTM E729-80
Fi	ïsh	LC50	Oncorhynchus mykiss	0,89 mg/l, 96 h
	Chronic		•	
_	rustacea	NOEC	Daphnia magna	0,79 mg/l, 21 d
Fi	ïsh	NOEC	Oncorhynchus mykiss	1,2 mg/l, 61 d OECD 210
BASIC OR	RANGE 31 (CAS 97404	-02-9)		
A	iquatic	,		
	lgae	EC50	Desmodesmus subspicatus	8,5 mg/l, 72 h OECD 201
	ish	LC50	Danio rerio	> 100 mg/l, 96 h OECD 203
0	Other	EC50	Activated sludge of a predominantly domestic sewage	44,5 mg/l, 3 h OECD 209
BASIC RE	D 51 (CAS 77061-58-6	6)		
Α	quatic			
	lcute			
	Crustacea	EC50	Daphnia magna	0,44 mg/l, 48 h
	ïsh	LC50	Lepomis macrochirus	10 - 100 mg/l, 48 h OECD 203
0	Other	EC50	Activated sludge of a predominantly domestic sewage	15 mg/l, 3 h
	ETHRINE CHLORIDE	(CAS 68393-49-7	()	
	quatic			
	l <i>cute</i> llgae	EC50	Algae	0,5 - 1 mg/l, 72 h
	_	EC50	Daphnia magna	0,34 mg/l, 48 h
	rustacea ich		Daprinia magna Danio rerio	. •
	ish	LC50	Danio leno	0,21 - 0,46 mg/l, 96 h
	PHENOL (CAS 591-27 Acute	-၁)		
	Other	IC50	Tetrahymena pyriformis	361 mg/l, 40 h
	quatic			<u> </u>
	lcute			
	lgae	EC50	Pseudokirchneriella subcapitata	62 mg/l, 72 h OECD 201
С	rustacea	EC50	Daphnia magna	1,1 mg/l, 48 h DIN 38412, Pt. 11
Fi	ïsh	LC50	Danio rerio	82,64 mg/l, 96 h OECD 203
С	Chronic			
С	rustacea	NOEC	Daphnia magna	0,05 mg/l, 21 d OECD 211
F	ish	NOEC	Oryzias latipes	25 mg/l, 25 d OECD 204

Test Results Components **Species** N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE (CAS 54381-16-7) Aquatic Acute Algae EC50 Pseudokirchneriella subcapitata 0,338 mg/l, 72 h OECD 201 EC50 Crustacea Daphnia magna 0,381 mg/l, 48 h OECD 202 Fish LC50 Danio rerio > 235 mg/l, 96 h Activated sludge of a predominantly Other EC50 228 mg/l, 3 h OECD 209 domestic sewage Chronic 0,674 mg/l, 21 d OECD 211 NOEC Daphnia magna Crustacea P-AMINOPHENOL (CAS 123-30-8) Aquatic Acute EC50 Pseudokirchneriella subcapitata Algae > 0,253 mg/l, 72 h OECD 201 Crustacea EC50 Daphnia magna 0,182 mg/l, 48 h OECD 202 Fish LC50 Oryzias latipes 0,82 mg/l, 96 h OECD 203 Other EC50 Activated sludge of a predominantly 29,9 mg/l, 3 h OECD 209 domestic sewage RESORCINOL (CAS 108-46-3) Aquatic Acute Algae EC50 Pseudokirchneriella subcapitata > 97 mg/l, 97 h OECD 201 LC50 Crustacea Daphnia magna 1 mg/l, 48 h OECD 202 Fish LC50 Pimephales promelas 26,8 mg/l, 96 h EPA-660/3/75-009 Other Activated sludge of a predominantly 79 mg/l, 3 h OECD 209 domestic sewage Chronic Crustacea NOEC Daphnia magna >= 0,172 mg/l, 21 d LOEC Oncorhynchus mykiss 320 mg/l, 60 d Fish TOLUENE-2,5-DIAMINE (CAS 95-70-5) Aquatic Acute EC50 Algae Pseudokirchneriella subcapitata 1,02 mg/l, 72 h OECD 201 Crustacea EC50 Daphnia magna 0,491 mg/l, 48 h OECD 202 Fish LC50 0,05 mg/l, 96 h OECD 203 Oryzias latipes Other 3,75 mg/l, 3 h OECD 209 EC50 Activated sludge of a predominantly domestic sewage Chronic NOEC Pseudokirchneriella subcapitata 0,11 mg/l, 72 h OECD 201 Algae

12.2. Persistence and degradability

Biodegradability

SULFATE

RESORCINOL

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Percent degradation (Aerobic biodegradation)

4-AMINO-2-HYDROXYTOLUENE

2-METHYLRESORCINOL 64 % OECD 301 B

Result: Readily Biodegradable

Test Duration: 28 d 0 % OECD 301 B

Result: Not Readily Biodegradable

Test Duration: 28 d

HEXADIMETHRINE CHLORIDE Result: Not Readily Biodegradable N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE

14,3 % OECD 301B

Result: Not Readilby Biodegradable

Test Duration: 28 d 66,7 % OECD 301 C

Result: Readily Biodegradable

Test Duration: 14 d

Material name: MAJIREL GLOW PERMANENT HAIR COLOURS - GROUP 6

^{*} Estimates for product may be based on additional component data not shown.

Biodegradability

Percent degradation (Aerobic biodegradation)

TOLUENE-2.5-DIAMINE 17 % OECD 301 D

Result: Not Readily Biodegradable

Test Duration: 28 d

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

4-AMINO-2-HYDROXYTOLUENE -0,53 EU A,8 0,53 OECD 117

0.79

BASIC ORANGE 31 -2,13 OECD 107
BASIC RED 51 -1,97 OECD 107

M-AMINOPHENOL 0,21 N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE -2,8

SULFATE

-2,8 OECD 107

P-AMINOPHENOL 0,04
0,25
RESORCINOL 0,8
TOLUENE-2,5-DIAMINE 0,25

-0,321 OECD 107

Bioconcentration factor (BCF)

P-AMINOPHENOL 10 - 46 OECD 305 C

12.4. Mobility in soil No data available.12.5. Results of PBT Not available.

and vPvB assessment

12.6. Other adverse effectsNo other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

FINISHED GOODS

Special precautions

14.1. - 14.6.: Not regulated as dangerous goods.

BULK

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

FINISHED GOODS

14.1. - 14.6.: Not regulated as dangerous goods.

BULK

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

FINISHED GOODS

14.1. - 14.6.: Not regulated as dangerous goods.

BULK

14.1. - 14.6.: Not regulated as dangerous goods.

Not established.

according to Annex II of Marpol and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended TOLUENE-2,5-DIAMINE (CAS 95-70-5)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

AMMONIUM HYDROXIDE (CAS 1336-21-6)

M-AMINOPHENOL (CAS 591-27-5) P-AMINOPHENOL (CAS 123-30-8) RESORCINOL (CAS 108-46-3)

TOLUENE-2,5-DIAMINE (CAS 95-70-5)

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Other regulations

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

Follow national regulation for work with chemical agents. Young people under 18 years old are not **National regulations**

allowed to work with this product according to EU Directive 94/33/EC on the protection of young

people at work, as amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Not available. List of abbreviations Not available. References

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under

Sections 2 to 15 H301 Toxic if swallowed. H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

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H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H370 Causes damage to organs by ingestion.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Revision information

Training information

Disclaimer

None.

Follow training instructions when handling this material.

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.