SAFETY DATA SHEET

1. Identification

Product identifier REDKEN SHADES EQ PERMANENT HAIR COLOURS - GROUP 1

Other means of identification

SDS number 30-21-0000269

Recommended use Personal care product used for cosmetic effect.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

US Address: L'Oreal USA Products. Inc

133 Terminal Avenue

Clark, NJ 07066

USA

Canadian Address: L'Oreal Canada

4895 rue Hickmore

Ville St-Laurent, H4T 1K5

Canada

Emergency Phone #: 1-800-535-5053 (International: 352-323-3500)

In Canada - 1-613-996-6666 (Canutec (*666 Cellular))

For further Information: 1-732-499-2741

Poison Control #: 412-390-3326

2. Hazard(s) identification

Physical hazards Flammable liquids Category 3 Skin corrosion/irritation **Health hazards** Category 2 Serious eye damage/eye irritation Category 1 Sensitization, skin Category 1A

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes

serious eye damage.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.

Material name: REDKEN SHADES EQ PERMANENT HAIR COLOURS - GROUP 1 37413 Version #: 02 Revision date: 10-28-2019 Issue date: 05-14-2019

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Response

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. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In

case of fire: Use appropriate media to extinguish.

Storage Store in a well-ventilated place. Keep cool.

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
ISOPROPYL ALCOHOL		67-63-0	10
SODIUM C14-16 OLEFIN SULFONATE		68439-57-6	9
DECETH-3		66455-15-0	8.1
COCAMIDE MIPA		68333-82-4	6.5
OLEYL ALCOHOL		68002-94-8	6
LAURYL ALCOHOL		112-53-8	1.73
TOLUENE-2,5-DIAMINE		95-70-5	< 2
2-METHYLRESORCINOL		608-25-3	< 2
4-AMINO-2-HYDROXYTOLUENE		2835-95-2	< 2
3-NITRO-P-HYDROXYETHYLAMII OPHENOL	N	65235-31-6	< 2
2,4-DIAMINOPHENOXYETHANOL HCL	-	66422-95-5	< 2
P-PHENYLENEDIAMINE		106-50-3	≤ 2
RESORCINOL		108-46-3	< 0.7
SODIUM SULFITE		7757-83-7	≤ 1
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE		155601-30-2	< 0.5
M-AMINOPHENOL		591-27-5	≤ 0.7
P-AMINOPHENOL		123-30-8	< 0.4
N,N-BIS(2-HYDROXYETHYL)-p-PI ENYLENEDIAMINE SULFATE	Н	54381-16-7	< 0.3

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

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

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

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

contaminated clothing before reuse.

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

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

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and

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.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed.

General information Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the

material(s) involved, and take precautions to protect themselves. Wash contaminated clothing

before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

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

Specific hazards arising from the chemical

media

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

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

Fire fighting

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

equipment/instructions Specific methods

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

General fire hazards Flammable liquid and vapor.

6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get this material in contact with eyes. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
ISOPROPYL ALCOHOL (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
P-PHENYLENEDIAMINE (CAS 106-50-3)	PEL	0.1 mg/m3	

US. ACGIH Threshold Limit Values		
Components	Туре	Value
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
P-PHENYLENEDIAMINE (CAS 106-50-3)	TWA	0.1 mg/m3
RESORCINOL (CAS 108-46-3)	STEL	20 ppm
	TWA	10 ppm
US. NIOSH: Pocket Guide to Chemical I	Hazards	
Components	Туре	Value
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3
		400 ppm
P-PHENYLENEDIAMINE (CAS 106-50-3)	TWA	0.1 mg/m3
RESORCINOL (CAS 108-46-3)	STEL	90 mg/m3
		20 ppm
	TWA	45 mg/m3
		10 ppm
US. Workplace Environmental Exposure	e Level (WEEL) Guides	
Components	Туре	Value
TOLUENE-2,5-DIAMINE (CAS 95-70-5)	TWA	0.025 mg/m3
		0.005 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
ISOPROPYL ALCOHOL (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

P-PHENYLENEDIAMINE (CAS 106-50-3) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

P-PHENYLENEDIAMINE (CAS 106-50-3) Skin designation applies.

US - Tennessee OELs: Skin designation

P-PHENYLENEDIAMINE (CAS 106-50-3) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

P-PHENYLENEDIAMINE (CAS 106-50-3) Can be absorbed through the skin.

US WEEL Guides: Skin designation

TOLUENE-2,5-DIAMINE (CAS 95-70-5) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

P-PHENYLENEDIAMINE (CAS 106-50-3) Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation 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 and safety shower.

Individual protection measures, such as personal protective equipment

Applicable for industrial settings only. Wear safety glasses with side shields (or goggles) and a Eye/face protection

face shield. Face shield is recommended.

Skin protection

Hand protection Applicable for industrial settings only. Wear appropriate chemical resistant gloves.

Other Applicable for industrial settings only. Wear appropriate chemical resistant clothing. Use of an

impervious apron is recommended.

Applicable for industrial settings only. If engineering controls do not maintain airborne Respiratory protection

> concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be

worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. 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.

9. Physical and chemical properties

Appearance

Physical state Liquid. Color Shaded

Odor Not available. Characteristic.

Odor threshold Not available. 9.5 - 10.5 pН Melting point/freezing point Not available.

Initial boiling point and boiling

> 212 °F (> 100 °C)

range

100.0 °F (37.8 °C) Closed Cup Flash point

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.

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Not available. Vapor pressure Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity**

Other information

Explosive properties Not explosive.

< 212.00 °F (< 100.00 °C) Fire point

Not oxidizing. Oxidizing properties

10. Stability and reactivity

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

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Hazardous decomposition

Strong oxidizing agents. Chlorine. Isocyanates.

No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

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

Eye contact Causes serious eye damage.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

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.

Information on toxicological effects

Acute toxicity Not known.

Product Species Test Results

REDKEN SHADES EQ PERMANENT HAIR COLOURS - GROUP 1

Acute Dermal

ATEmix 11260 mg/kg

Oral

ATEmix 1629 mg/kg

Components Species Test Results

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE (CAS 155601-30-2)

Acute

Inhalation

Aerosol

LD50 Rat > 5.24 mg/m3, 4 h OECD 403

Oral

LD50 Rat > 2000 mg/kg OECD 401

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

<u>Acute</u>

Oral

LD50 Rat

Rat 1000 mg/kg OECD 401

2-METHYLRESORCINOL (CAS 608-25-3)

Acute Oral

LC50 Rat 200 mg/kg

3-NITRO-P-HYDROXYETHYLAMINOPHENOL (CAS 65235-31-6)

Acute

Oral

LD50 Rat 1000 - 2000 mg/kg bw/d OECD 420

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

Acute

Oral

LD50 Rat 3600 mg/kg

Components Species Test Results

COCAMIDE MIPA (CAS 68333-82-4)

<u>Acute</u>

Dermal

LD50 Rabbit > 2000 mg/kg OECD 402

Oral

LD50 Rat > 2000 mg/kg OECD 401

DECETH-3 (CAS 66455-15-0)

Acute Dermal

LD50 Rat > 2000 mg/kg Based on test data for

structurally similar materials.

Oral

LD50 Rat > 2000 mg/kg Based on test data for

structurally similar materials.

ISOPROPYL ALCOHOL (CAS 67-63-0)

Acute

Dermal

LD50 Rabbit 16.4 ml/kg bw OECD 402

Inhalation

Vapor

LC50 Rat > 10000 ppm, 6 Hours OECD 403

Oral

LD50 Rat 5840 mg/kg bw OECD 401

LAURYL ALCOHOL (CAS 112-53-8)

Acute

Dermal

LD50 Rabbit 8000 - 12000 mg/kg OECD 402

Inhalation

Mist

LC50 Rat > 71 mg/l, 1 h Based on test data for

structurally similar materials.

Oral

LD50 Rat > 2000 mg/kg OECD 401

M-AMINOPHENOL (CAS 591-27-5)

Acute

Inhalation

LC50 Rat 1162 mg/m3

Oral

LD50 Rat 924 mg/kg

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE (CAS 54381-16-7)

<u>Acute</u>

Oral

LD50 Rat 264 mg/kg

OLEYL ALCOHOL (CAS 68002-94-8)

Acute

Dermal

LD50 Rabbit 8000 mg/kg Based on test data for

structurally similar materials.

Oral

LD50 Rat > 2000 mg/kg OECD 401

Components Species Test Results

P-AMINOPHENOL (CAS 123-30-8)

<u>Acute</u>

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

P-PHENYLENEDIAMINE (CAS 106-50-3)

<u>Acute</u>

Dermal

LD50 Rabbit > 7940 mg/kg

Inhalation

Vapor or aerosol

LC50 Rat 0.92 mg/l, 4 Hours

Oral

LD50 Rat 80 - 100 mg/kg bw

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

SODIUM C14-16 OLEFIN SULFONATE (CAS 68439-57-6)

<u>Acute</u>

Dermal

LD50 Rabbit 6300 mg/kg OECD 402

Inhalation

Aerosol

LC50 Rat > 52 mg/l, 4 h OECD 403

Oral

LD50 Rat 2079 mg/kg OECD 401

SODIUM SULFITE (CAS 7757-83-7)

Acute

Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Oral

LD50 Rat 2150 - 2610 mg/kg

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

Oral

LD50 Rat 102 mg/kg OECD 401

Acute

Dermal

LD50 Rabbit 3520 mg/kg

Components Species Test Results

Inhalation

Dust

LC50 Rat 0.99 mg/l, 4 h

Skin corrosion/irritation Causes skin irritation.

Irritation Corrosion - Skin

3-NITRO-P-HYDROXYETHYLAMINOPHENOL 6 Not applicable OECD 404

Result: Not Irritating Species: Rabbit

RESORCINOL FHLS Act, (100%)

Result: Irritating Species: Rabbit

SODIUM C14-16 OLEFIN SULFONATE OECD 404

Result: Irritating Species: Rabbit

2,4-DIAMINOPHENOXYETHANOL HCL OECD 404

Result: Not Irritating Species: Rabbit

LAURYL ALCOHOL OECD 404

Result: Not Irritating Species: Rabbit

M-AMINOPHENOL OECD 404

Result: Not Irritating Species: Rabbit OECD 404

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE OI

SULFATE

Result: Slightly Irritating

Species: Rabbit OECD 404

2-METHYLRESORCINOL

Result: Slightly Irritating Species: Rabbit

RESORCINOL OECD 404, (2.5%)

Result: Not Irritating Species: Rabbit

COCAMIDE MIPA OECD 404, Based on test data for structurally similar

materials. Result: Irritating Species: Rabbit

DECETH-3 OECD 404, Based on test data for structurally similar

materials.

Result: Slightly Irritating

Species: Rabbit

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

NE SULFATE Result: Not Irritating

Species: In vitro

TOLUENE-2,5-DIAMINE OECD 439

Result: Not Irritating Species: In vitro

4-AMINO-2-HYDROXYTOLUENE OECD 439

Result: Not Irritating Species: RhE

P-PHENYLENEDIAMINE Result: Not Irritating

Species: Guinea pig Result: Not Irritating

Species: Rabbit
OLEYL ALCOHOL Result: Slightly Irritating

Species: Rabbit

P-AMINOPHENOL Result: Slightly Irritating

Species: Rabbit

Serious eye damage/eye Causes serious eye damage.

irritation

Irritation Corrosion - Eye

ISOPROPYL ALCOHOL

3-NITRO-P-HYDROXYETHYLAMINOPHENOL 6 % OECD 405

Result: Irritating Species: Rabbit

Irritation Corrosion - Eye

P-AMINOPHENOL EPA OPPTS 870.2400

Result: Slightly Irritating

Species: Rabbit

RESORCINOL FHLS Act. (100%)

Result: Corrosive Species: Rabbit

OECD 405

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE

SULFATE

TOLUENE-2,5-DIAMINE

Result: Corrosive Species: Rabbit

2-METHYLRESORCINOL **OECD 405**

Result: Corrosive

Species: Rabbit

OECD 405 Result: Corrosive

Species: Rabbit

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

Species: Rabbit

OECD 405 LAURYL ALCOHOL

Result: Irritating Species: Rabbit

OECD 405 P-PHENYLENEDIAMINE

Result: Irritating Species: Rabbit

M-AMINOPHENOL **OECD 405**

> Result: Not Irritating Species: Rabbit

ISOPROPYL ALCOHOL **OECD 405**

Result: Severely Irritating

Species: Rabbit OECD 405, (2.5%)

RESORCINOL Result: Not Irritating

Species: Rabbit

OECD 405, 5% < C ≤ 38% SODIUM C14-16 OLEFIN SULFONATE

Result: Irritating Species: Rabbit

COCAMIDE MIPA OECD 405, Based on test data for structurally similar

materials.

Result: Corrosive Species: Rabbit

SODIUM C14-16 OLEFIN SULFONATE OECD 405, C >38%

Result: Corrosive Species: Rabbit

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI OECD 438

NE SULFATE Result: Irritating

Species: In vitro

4-AMINO-2-HYDROXYTOLUENE **OECD 492**

Result: Not Irritating Species: RhCE Result: Corrosive

DECETH-3

Species: Rabbit Result: Not Irritating

OLEYL ALCOHOL Species: Rabbit

Respiratory or skin sensitization

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

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE EU Method B.6 - Cat 1

SULFATE Result: Sensitizing

Species: Guinea pig

COCAMIDE MIPA OECD 406

Result: Not Sensitizing Species: Guinea pig

ISOPROPYL ALCOHOL **OECD 406**

Result: Not Sensitizing Species: Guinea pig

Skin sensitization

LAURYL ALCOHOL OFCD 406

> Result: Not Sensitizing Species: Guinea pig

OECD 406 SODIUM C14-16 OLEFIN SULFONATE

Result: Not Sensitizing

Species: Guinea pig

P-AMINOPHENOL **OECD 406**

Result: Sensitizing Species: Guinea pig

DECETH-3 OECD 406, Based on test data for structurally similar

materials.

Result: Not Sensitizing Species: Guinea pig

OECD 429 2,4-DIAMINOPHENOXYETHANOL HCL

> Result: Sensitizing Species: Mouse

OECD 429 2-METHYLRESORCINOL

Result: Sensitizing Species: Mouse

3-NITRO-P-HYDROXYETHYLAMINOPHENOL **OECD 429**

Result: Sensitizing

Species: Mouse **OECD 429** 4-AMINO-2-HYDROXYTOLUENE

Result: Sensitizing Species: Mouse

M-AMINOPHENOL **OECD 429**

> Result: Sensitizing Species: Mouse

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI OECD 429

NE SULFATE Result: Sensitizing

Species: Mouse **OECD 429**

P-PHENYLENEDIAMINE Result: Sensitizing

Species: Mouse

RESORCINOL **OECD 429**

Result: Sensitizing Species: Mouse

OECD 429 **TOLUENE-2,5-DIAMINE**

Result: Sensitizing Species: Mouse

OLEYL ALCOHOL Result: Not Sensitizing

Species: Rabbit

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

Mutagenicity

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

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

effects.

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI Result: In vitro and in vivo tests did not show mutagenic

NE SULFATE

effects.

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

effects.

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE

SULFATE

Result: In vitro tests did not show mutagenic effects

COCAMIDE MIPA Result: In vitro tests did not show mutagenic effects DECETH-3 Result: In vitro tests did not show mutagenic effects SODIUM C14-16 OLEFIN SULFONATE Result: In vitro tests did not show mutagenic effects

2,4-DIAMINOPHENOXYETHANOL HCL Result: In vitro tests showed mutagenic effects which were

not observed with in vivo test.

2-METHYLRESORCINOL 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.

P-PHENYLENEDIAMINE Result: In vitro tests showed mutagenic effects which were

not observed with in vivo test.

Mutagenicity

RESORCINOL Result: In vitro tests showed mutagenic effects which were

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.

3-NITRO-P-HYDROXYETHYLAMINOPHENOL Result: In vitro tests showed mutagenic effects which were

not observed with in vivo tests.

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

Carcinogenicity Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the

classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

P-PHENYLENEDIAMINE (CAS 106-50-3)

RESORCINOL (CAS 108-46-3)

SODIUM SULFITE (CAS 7757-83-7)

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

3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Developmental effects

OLEYL ALCOHOL

COCAMIDE MIPA > 1000 mg/kg bw/d OECD 414, Based on test data for

structurally similar materials.

Result: NOAEL Species: Rat

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

NE SULFATE Result: NOAEL

Species: Rat

SODIUM C14-16 OLEFIN SULFONATE >= 600 mg/kg bw/d OECD 414

Result: NOAEL Species: Rat

P-PHENYLENEDIAMINE 10 mg/kg bw/d OECD 414

Result: NOAEL Species: Rat

3-NITRO-P-HYDROXYETHYLAMINOPHENOL 100 mg/kg bw/d OECD 414

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

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

Result: NOAEL

Species: Rat

2000 mg/kg bw/d OECD 422 Result: NOAEL

Result. NOALL

Species: Rat

LAURYL ALCOHOL 2000 mg/kg bw/d OECD 422 Species: Rat

Species. Rai

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

ISOPROPYL ALCOHOL 400 mg/kg bw/d OECD 414, No effects on development

Result: NOAEL Species: Rabbit

Developmental effects

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

similar materials. 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

ISOPROPYL ALCOHOL 1000 mg/kg bw/d OECD 416, No effects on fertility

Result: NOAEL Species: Rat

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI 20 mg/kg bw/d OECD 408

NE SULFATE

Result: NOAEL Species: Rat Test Duration: 90 d

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

Result: NOAEL Species: Rat

LAURYL ALCOHOL 2000 mg/kg bw/d OECD 422

Result: NOAEL Species: Rat

OLEYL ALCOHOL 2000 mg/kg bw/d OECD 422

Result: NOAEL Species: Rat

RESORCINOL 245 mg/kg bw/d OECD 416

Result: NOAEL Species: Rat

1-HYDROXYETHYL 4.5-DIAMINO PYRAZOLE 300 mg/kg bw/d OECD 415

SULFATE Species: Rat

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

single exposure

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

repeated exposure

COCAMIDE MIPA > 750 mg/kg bw/d OECD 407, Oral

Result: NOAEL Species: Rat Test Duration: 28 d

SODIUM C14-16 OLEFIN SULFONATE >= 259 mg/kg bw/d Result: NOAEL

Species: Rat

P-AMINOPHENOL Test Duration: 104 wk
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

DECETH-3 100 mg/kg bw/d OECD 407, Based on test data for structurally

similar materials.
Result: NOAEL
Species: Rat
Test Duration: 28 d

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

Result: NOAEL Species: Rat Test Duration: 90 d

LAURYL ALCOHOL 1127 mg/kg bw/d

Result: NOAEL Species: Rat Test Duration: 90 d

Material name: REDKEN SHADES EQ PERMANENT HAIR COLOURS - GROUP 1 37413 Version #: 02 Revision date: 10-28-2019 Issue date: 05-14-2019

Specific target organ toxicity -

repeated exposure

P-PHENYLENEDIAMINE 16 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

3-NITRO-P-HYDROXYETHYLAMINOPHENOL 20 mg/kg bw/d

Result: NOAEL Species: Rat Test Duration: 90 d

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE 250 mg/kg bw/d OECD 408, Oral

Result: NOAEL Species: Rat Test Duration: 90 d

ISOPROPYL ALCOHOL 5000 ppm OECD 413, Inhalation

Result: NOALE 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

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

Further information May cause allergic respiratory and skin reactions.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species Test Results** 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE (CAS 155601-30-2) **Aquatic** Acute Algae Pseudokirchneriella subcapitata 5.33 mg/l, 72 h EU C.3 Crustacea EC50 Daphnia magna 11.12 mg/l, 48 h TG 202 LC50 Danio rerio 86.2 mg/l, 96 h EU C.1 Fish 2,4-DIAMINOPHENOXYETHANOL HCL (CAS 66422-95-5)

Aquatic

Acute

Algae EC50 Pseudokirchneriella subcapitata 36.5 mg/l, 72 h OECD 201
Crustacea EC50 Daphnia magna 7.4 mg/l, 48 h OECD 202

Components **Species Test Results** 2-METHYLRESORCINOL (CAS 608-25-3) **Aquatic** Acute EC50 Pseudokirchneriella subcapitata Algae 71 mg/l, 72 h OECD 201 Crustacea EC50 Daphnia magna 0.605 mg/l, 48 h OECD 202 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 4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2) Aquatic Acute Algae EC50 Pseudokirchneriella subcapitata 41 mg/l, 72 h OECD 201 Crustacea EC50 Daphnia magna 2.3 mg/l, 48 h OECD 202 Fish LC50 Danio rerio 25 mg/l, 96 h OECD 236 Other EC50 Activated sludge of a predominantly > 150 mg/l, 3 h OECD 209 domestic sewage Chronic Crustacea NOEC Daphnia magna 0.24 mg/l, 21 d OECD 211 COCAMIDE MIPA (CAS 68333-82-4) Aquatic Acute Algae EC50 Pseudokirchneriella subcapitata > 9.4 mg/l, 72 h OECD 201 Crustacea LC50 Daphnia magna 3.7 mg/l, 48 h OECD 202 Fish LC50 Fish 2.7 mg/l, 96 h QSAR Other EC50 Activated sludge of a predominantly > 1000 mg/l, 3 h OECD 209 domestic sewage Chronic 1 mg/l, 72 h OECD 201 Algae NOEC Pseudokirchneriella subcapitata Crustacea NOEC Daphnia magna 0.07 mg/l, 21 d OECD 211 Fish NOEC Oncorhynchus mykiss 0.32 mg/l, 28 d OECD 204 DECETH-3 (CAS 66455-15-0) Aquatic Acute Algae EC50 Desmodesmus subspicatus 1.8 mg/l, 72 h 92/69/EWG Crustacea EC50 Daphnia magna 0.39 mg/l, 48 h 92/69/EWG Fish LC50 Cyprinus carpio 1.2 mg/l, 96 h EU C.1 Other EC0 Activated sludge of a predominantly 140 mg/l, 3 h 88/302/EG domestic sewage Chronic Crustacea NOEC Daphnia magna <= 1 mg/l, 21 d NOEC Fish Lepomis macrochirus 0.16 mg/l, 10 d ISOPROPYL ALCOHOL (CAS 67-63-0) Aquatic Acute EC50 Scenedesmus quadricauda > 1000 mg/l, 72 h Algae Crustacea EC50 9714 mg/l, 24 h OECD 202 Daphnia magna Fish LC50 Pimephales promelas 9640 mg/l, 96 h OECD 203

Pseudomonas putida

TD

Other

1050 mg/l, 16 DIN 38412, Pt. 8

Components		Species	Test Results
LAURYL ALCOHOL (C	CAS 112-53-8)		
Acute			
Other	EC50	Tetrahymena pyriformis	1.58 mg/l, 48 h
Aquatic			
Acute			
Algae	EC50	Desmodesmus subspicatus	0.66 mg/l, 72 h
Crustacea	EC50	Daphnia magna	0.765 mg/l, 48 h
Fish	LC50	Pimephales promelas	1.01 mg/l, 96 h
Chronic			
Algae	NOEC	Desmodesmus subspicatus	0.085 mg/l, 72 h
Crustacea	NOEC	Daphnia magna	0.014 mg/l, 21 d
M-AMINOPHENOL (C	AS 591-27-5)		
Acute			
Other	IC50	Tetrahymena pyriformis	361 mg/l, 40 h
Aquatic			
Acute	F050	De code bische esialle coh cositete	00 m = // 70 h 050D 004
Algae	EC50	Pseudokirchneriella subcapitata	62 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	1.1 mg/l, 48 h DIN 38412, Pt. 11
Fish	LC50	Danio rerio	82.64 mg/l, 96 h OECD 203
Chronic	NOTO	D. 1. :	0.05
Crustacea	NOEC	Daphnia magna	0.05 mg/l, 21 d OECD 211
Fish	NOEC	Oryzias latipes	25 mg/l, 25 d OECD 204
•	ETHYL)-p-PHENYL	LENEDIAMINE SULFATE (CAS 54381-16-7)	
Aquatic			
Acute	EC50	Pseudokirchneriella subcapitata	0.338 mg/l, 72 h OECD 201
Algae Crustacea	EC50		
		Daphnia magna	0.381 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	> 235 mg/l, 96 h
Other	EC50	Activated sludge of a predominantly domestic sewage	228 mg/l, 3 h OECD 209
Chronic		acmostic comage	
Crustacea	NOEC	Daphnia magna	0.674 mg/l, 21 d OECD 211
OLEYL ALCOHOL (CA	AS 68002-94-8)		
Aquatic	,		
Acute			
Algae	EC50	Algae	250 mg/l OECD 201
Fish	LC50	Fish	> 1000 mg/l OECD 203
P-AMINOPHENOL (CA	AS 123-30-8)		
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	> 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 domestic sewage	29.9 mg/l, 3 h OECD 209
P-PHENYLENEDIAMII	NE (CAS 106-50-3)		
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	0.27 mg/l, 72 h OECD 201

Components		Species	Test Results
Crustacea	EC50	Daphnia magna	0.33 mg/l, 48 h OECD 202
Fish	LC50	Oncorhynchus mykiss	3.9 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	13.4 mg/l, 3 h OECD 209
RESORCINOL (CAS 1	08-46-3)		
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	> 97 mg/l, 97 h OECD 201
Crustacea	LC50	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 domestic sewage	79 mg/l, 3 h OECD 209
Chronic			
Crustacea	NOEC	Daphnia magna	>= 0.172 mg/l, 21 d
Fish	LOEC	Oncorhynchus mykiss	320 mg/l, 60 d
SODIUM C14-16 OLEF	FIN SULFONATE (CAS 68439-57-6)	
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	4.14 - 4.95 mg/l, 48 hours
Acute			
Algae	EC50	Skeletonema costatum	5.2 mg/l, 72 h ISO 10253
Crustacea	EC50	Acartia tonsa	230 mg/l, 3 h OECD 209
		Ceriodaphnia dubia	4.53 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	4.2 mg/l, 96 h OECD 203
Chronic			
Crustacea	NOEC	Daphnia magna	6.3 mg/l, 21 d OECD 211
SODIUM SULFITE (CA	AS 7757-83-7)	· ·	-
Aquatic	,		
Fish	LC50	Western mosquitofish (Gambusia affinis)	660 mg/l, 96 hours
TOLUENE-2,5-DIAMIN	E (CAS 95-70-5)		
Aquatic	,		
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	1.02 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.491 mg/l, 48 h OECD 202
Fish	LC50	Oryzias latipes	0.05 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	3.75 mg/l, 3 h OECD 209
Other		aomociio comago	
Chronic		democre cowage	

Pe

COCAMIDE MIPA

Biodegradability

Percent degradation (Aerobic biodegradation)

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE 33.3 % EU C.4-E

Result: Not readily biodegradable SULFATE

64 % OECD 301 B 2-METHYLRESORCINOL

Result: Readily Biodegradable Test Duration: 28 d

4-AMINO-2-HYDROXYTOLUENE

0 % OECD 301 B

Result: Not Readily Biodegradable

Test Duration: 28 d 74 % ISO 14593

Result: Readily Biodegradable

Test Duration: 28 d

Biodegradability

Percent degradation (Aerobic biodegradation)

DECETH-3 78 % OECD 301 B

Result: Readily Biodegradable

Test Duration: 28 d 95 % OECD 301 E

ISOPROPYL ALCOHOL 95 % OECD 301 E

Result: Readily Biodegradable Test Duration: 21 d

LAURYL ALCOHOL 79 % OECD 301 D

Result: Readily Biodegradable

Test Duration: 28 d 14.3 % OECD 301B

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

SULFATE

Result: Not Readilby Biodegradable

Test Duration: 28 d

OLEYL ALCOHOL 87 % OECD 301 D

Result: Not Readily Biodegradable

Test Duration: 28 d 28 - 30 % OECD 301 D

P-PHENYLENEDIAMINE 28 - 30 % OECD 301 E

Result: Not Readily Biodegradable

Test Duration: 28 d 66.7 % OECD 301 C

RESORCINOL 66.7 % OECD 301 C

Result: Readily Biodegradable

Test Duration: 14 d SODIUM C14-16 OLEFIN SULFONATE 80 % OECD 301 B

Result: Readily Biodegradable

Test Duration: 28 d TOLUENE-2,5-DIAMINE 17 % OECD 301 D

Result: Not Readily Biodegradable

Test Duration: 28 d

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

4-AMINO-2-HYDROXYTOLUENE -0.53 EU A.8

0.53 OECD 117

COCAMIDE MIPA 3.77
ISOPROPYL ALCOHOL 0.05

LAURYL ALCOHOL 5.4 OECD 117

M-AMINOPHENOL 0.21 N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE -2.8

SULFATE

-2.8 OECD 107

P-AMINOPHENOL 0.25
P-PHENYLENEDIAMINE -0.25
RESORCINOL 0.8

SODIUM C14-16 OLEFIN SULFONATE -1.3 EU A.8 TOLUENE-2,5-DIAMINE -0.321 OECD 107

Bioconcentration factor (BCF)

COCAMIDE MIPA 143

P-AMINOPHENOL 10 - 46 OECD 305 C

Bioaccumulation

3-NITRO-P-HYDROXYETHYLAMINOPHENOL 0.6 Log Pow

Result: Not expected to bioaccumulate
COCAMIDE MIPA
Result: Bioaccumulation is unlikely.
ISOPROPYL ALCOHOL
Result: Bioaccumulation is unlikely.
P-AMINOPHENOL
Result: Bioaccumulation is unlikely.
TOLUENE-2,5-DIAMINE
Result: Bioaccumulation is unlikely.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

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

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

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

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste codeThis product is ignitable (D001) RCRA hazardous wastes when intended for disposal.

Waste from residues / unused

products

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.

14. Transport information

DOT

FINISHED GOODS

UN1993 **UN** number

FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), Limited Quantity **UN proper shipping name**

Class 3 Packing group Ш Transport hazard class(es)

> Limited Quantity Label(s)

Packaging exceptions 150 LTD QTY Net Inner Capacity 5.0 L

BULK

UN number

FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL) **UN proper shipping name**

Class 3 Ш **Packing group** Transport hazard class(es) 3 Label(s)

Special provisions B1, B52, IB3, T4, TP1, TP29

Packaging non bulk 203

IATA

FINISHED GOODS

ID8000 **UN number**

CONSUMER COMMODITY **UN proper shipping name**

Class

Packing group Not applicable.

Transport hazard class(es)

Class 9, Limited Quantity Label(s)

ERG Number LTD QTY Net Inner Capacity 0.5 L

BULK

UN1993 **UN** number

FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL) **UN proper shipping name**

Class 3 Ш **Packing group** 3L **ERG Number**

IMDG

FINISHED GOODS

UN1993 **UN** number

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), Limited Quantity

Class 3 Ш Packing group **Environmental Hazards**

Marine pollutant No. Transport hazard class(es)

Label(s) Limited Quantity

F-E, S-E **EmS** LTD QTY Net Inner Capacity 5.0 L

BULK

UN number

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL)

3 Class Ш Packing group

Environmental hazards

Marine pollutant No. EmS F-E, S-E

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ISOPROPYL ALCOHOL (CAS 67-63-0) Listed.
P-PHENYLENEDIAMINE (CAS 106-50-3) Listed.
RESORCINOL (CAS 108-46-3) Listed.
TOLUENE-2,5-DIAMINE (CAS 95-70-5) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No (Exempt)

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
ISOPROPYL ALCOHOL	67-63-0	10	
P-PHENYLENEDIAMINE	106-50-3	≤ 2	
TOLUENE-2.5-DIAMINE	95-70-5	< 2	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

P-PHENYLENEDIAMINE (CAS 106-50-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

ISOPROPYL ALCOHOL (CAS 67-63-0)

Low priority
RESORCINOL (CAS 108-46-3)

Low priority

16. Other information, including date of preparation or last revision

 Issue date
 05-14-2019

 Revision date
 10-28-2019

Version # 02

NFPA ratings Health: 3

Flammability: 2 Instability: 0

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Revision informationThis document has undergone significant changes and should be reviewed in its entirety.

Material name: REDKEN SHADES EQ PERMANENT HAIR COLOURS - GROUP 1 37413 Version #: 02 Revision date: 10-28-2019 Issue date: 05-14-2019