

SAFETY DATA SHEET

REDKEN SHADES ALK HAIRCOLOR - GROUP 21

Version 1.1 Revision Date: 05/21/2025 SDS Number: 80-21-410000002025 Date of last issue: 01/14/2025
Date of first issue: 01/14/2025

SECTION 1. IDENTIFICATION

Product name : REDKEN SHADES ALK HAIRCOLOR - GROUP 21
Formula Center Reference : 41905 RDK,41778 RDK5,41911 RDK5,41957 RDK8

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 1C
Serious eye damage : Category 1
Skin sensitization : Category 1
Specific target organ toxicity : Category 2 (Liver, Skeletal muscle)
- repeated exposure (Oral)

Other hazards

None known.

GHS label elements

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Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H373 May cause damage to organs (Liver, Skeletal muscle) through prolonged or repeated exposure if swallowed.

Precautionary Statements

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

Prevention:

P260 Do not breathe 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.
P314 Get medical advice/ attention if you feel unwell.
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:
2.7 %

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The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 2.7 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 2.7 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)
ETHANOLAMINE	141-43-5*	>= 5 - <= 10
GLYCERIN	56-81-5*	>= 3 - <= 7
HYDROXYBENZOMORPHOLINE	26021-57-8*	>= 1 - <= 5
m-AMINOPHENOL	591-27-5*	>= 1 - <= 5
LAURYL GLUCOSIDE	110615-47-9*	>= 0.5 - <= 1.5
TOLUENE-2,5-DIAMINE	95-70-5*	>= 0.5 - <= 1.5
HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL	94158-14-2*	>= 0.5 - <= 1.5
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE	54381-16-7*	>= 0.1 - <= 1
2,4-DIAMINOPHENOXYETHANOL HCL	66422-95-5*	>= 0.1 - <= 1
p-AMINOPHENOL	123-30-8*	>= 0.1 - <= 1
6-HYDROXYINDOLE	2380-86-1*	>= 0.1 - <= 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.

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If swallowed	:	Rinse mouth with water. Do NOT induce vomiting. If symptoms persist, call a physician. Obtain medical attention.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure if swallowed. Causes severe burns. Corrosive to the respiratory tract.
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.

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Methods and materials for containment and cleaning up : 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

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Avoid formation of aerosol.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Provide sufficient air exchange and/or exhaust in work rooms.
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
ETHANOLAMINE	141-43-5	TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		TWA	3 ppm 8 mg/m3	NIOSH REL
		ST	6 ppm 15 mg/m3	NIOSH REL
		TWA	3 ppm 6 mg/m3	OSHA Z-1
GLYCERIN	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
TOLUENE-2,5-DIAMINE	95-70-5	TWA	0.005 ppm	US WEEL

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

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quired.

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 : No data available

Odor : Unscented.

pH : 9.5 - 10.5

Melting point/freezing point : No data available

Boiling point/boiling range : Not available

Flash point : > 199 °F / > 93 °C
Method: ISO 3679

Fire Point : Not applicable

Flammability (liquids) : Does not sustain combustion.

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower : No data available

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flammability limit

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : 0.964 - 0.976 (68 °F / 20 °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

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

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-
tions : 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:

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Acute oral toxicity : Acute toxicity estimate: 3,222 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 29.38 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:

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

HYDROXYBENZOMORPHOLINE:

Acute oral toxicity : LD50 (Rat, male and female): > 1,000 mg/kg
Method: OECD Test Guideline 401

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

LAURYL GLUCOSIDE:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

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TOLUENE-2,5-DIAMINE:

Acute oral toxicity : LD50 (Rat, male and female): 102 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50: 0.99 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50: 3,520 mg/kg

HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:

Acute oral toxicity : LD50 (Rat, male and female): 1,550 mg/kg
Method: OECD Test Guideline 401

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

2,4-DIAMINOPHENOXYETHANOL HCL:

Acute oral toxicity : LD50 (Rat, male and female): 1,000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): >= 45,450 mg/kg

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

6-HYDROXYINDOLE:

Acute oral toxicity : (Rat, male and female): 600 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LD50 (Rat, male and female): > 2 mg/l
Exposure time: 4 h

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Test atmosphere: dust/mist

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

Skin corrosion/irritation

Causes severe burns.

Components:

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.

HYDROXYBENZOMORPHOLINE:

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

m-AMINOPHENOL:

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

LAURYL GLUCOSIDE:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

TOLUENE-2,5-DIAMINE:

Species : Rat
Method : OECD Test Guideline 430
Result : No skin irritation

HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE 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

2,4-DIAMINOPHENOXYETHANOL HCL:

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

p-AMINOPHENOL:

Species : Rabbit
Result : No skin irritation

6-HYDROXYINDOLE:

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:

ETHANOLAMINE:

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

Remarks : May cause irreversible eye damage.

HYDROXYBENZOMORPHOLINE:

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

m-AMINOPHENOL:

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

LAURYL GLUCOSIDE:

Species : Rabbit
Result : Risk of serious damage to eyes.
Method : OECD Test Guideline 405

TOLUENE-2,5-DIAMINE:

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

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HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:

Result : Eye irritation
Method : OECD Test Guideline 492

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

Species : Rabbit
Result : Eye irritation

2,4-DIAMINOPHENOXYETHANOL HCL:

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

p-AMINOPHENOL:

Species : Rabbit
Result : No eye irritation

6-HYDROXYINDOLE:

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:

ETHANOLAMINE:

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

HYDROXYBENZOMORPHOLINE:

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

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m-AMINOPHENOL:

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

LAURYL GLUCOSIDE:

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

TOLUENE-2,5-DIAMINE:

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

HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:

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

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.

2,4-DIAMINOPHENOXYETHANOL HCL:

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

p-AMINOPHENOL:

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

6-HYDROXYINDOLE:

Routes of exposure : Skin contact
Species : Mouse
Method : OECD Test Guideline 429

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Result : The product is a skin sensitizer, sub-category 1A.

Germ cell mutagenicity

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

Components:

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

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

Carcinogenicity

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

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:

p-AMINOPHENOL:

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

STOT-single exposure

Corrosive to the respiratory tract.

Components:

ETHANOLAMINE:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs (Liver, Skeletal muscle) through prolonged or repeated exposure if swallowed.

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Components:

m-AMINOPHENOL:

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

HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:

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

p-AMINOPHENOL:

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

Repeated dose toxicity

Components:

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

TOLUENE-2,5-DIAMINE:

Species : Rat, male and female
NOAEL : 10 mg/kg
Application Route : Oral
Exposure time : 91 Days
Method : OECD Test Guideline 408
Target Organs : Skeletal muscle
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:

Species : Rat, male and female
NOAEL : 20 mg/kg
Application Route : Oral
Exposure time : 13 Weeks
Method : OECD Test Guideline 408

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p-AMINOPHENOL:

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

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.
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Components:

ETHANOLAMINE:

Remarks	:	The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.
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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

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)	:	NOEC (Daphnia magna (Water flea)): 0.85 mg/l Exposure time: 21 d

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ic toxicity) Method: OECD Test Guideline 202

HYDROXYBENZOMORPHOLINE:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 5.42 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2.57 mg/l
aquatic invertebrates Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 8.09
plants mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)): 1.66
mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (activated sludge): 3.7 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

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

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 67.7
plants 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 tox- : NOEC (Oryzias latipes (Japanese medaka)): 50 mg/l
icity) Exposure time: 21 d
Method: OECD Test Guideline 204

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.05 mg/l
aquatic invertebrates (Chron- Exposure time: 21 d

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ic toxicity) Method: OECD Test Guideline 202

LAURYL GLUCOSIDE:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2.95 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7 mg/l
Exposure time: 48 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 5 mg/l
Exposure time: 72 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 1.8 mg/l
Exposure time: 28 d
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 2 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 202

TOLUENE-2,5-DIAMINE:

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 0.05 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.491 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 2.03 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.11 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 106 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.67 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 17.9 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOELR (Desmodesmus subspicatus (green algae)): 12.5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

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

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

2,4-DIAMINOPHENOXYETHANOL HCL:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 400 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6.49 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 37.4 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)): 11.4 mg/l

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Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.43 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

6-HYDROXYINDOLE:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 21.7 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.74 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 1.38 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

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Persistence and degradability

Components:

ETHANOLAMINE:

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 21 d
Method: OECD Test Guideline 301A

HYDROXYBENZOMORPHOLINE:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 11 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

m-AMINOPHENOL:

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

LAURYL GLUCOSIDE:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 86 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

TOLUENE-2,5-DIAMINE:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 17 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %
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

2,4-DIAMINOPHENOXYETHANOL HCL:

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Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 1 %
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

6-HYDROXYINDOLE:

Biodegradability : Result: Inherently biodegradable.
Biodegradation: 38.47 %
Exposure time: 42 d
Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:

ETHANOLAMINE:

Bioaccumulation : Bioconcentration factor (BCF): 2.50

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

HYDROXYBENZOMORPHOLINE:

Partition coefficient: n-octanol/water : log Pow: 0.219
pH: 7.45
Method: OECD Test Guideline 117

m-AMINOPHENOL:

Bioaccumulation : Bioconcentration factor (BCF): 4

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:

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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 1760
Proper shipping name : Corrosive liquids, n.o.s.
(Ethanolamine)
Class : 8
Packing group : III
Labels : CORROSIVE
ERG Code : 154
Marine pollutant : yes(m-Aminophenol, Toluene-2,5-diamine)

International Regulations

IATA-DGR

UN/ID No. : UN 1760
Proper shipping name : Corrosive liquid, n.o.s.
(Ethanolamine)
Class : 8
Packing group : III
Labels : Corrosive
Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852

IMDG-Code

UN number : UN 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S.
(ETHANOLAMINE, M-AMINOPHENOL, TOLUENE-2,5-DIAMINE)
Class : 8
Packing group : III

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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 5 liters or less, except for IATA.
Materials may be offered as a limited quantity by IATA when in containers of 500 mL or less.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA 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
Specific target organ toxicity (single or repeated exposure)
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).

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

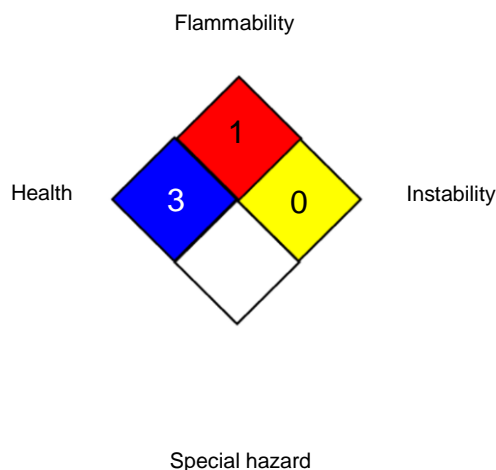
Further information

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NFPA 704:



Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
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 Z-1 / TWA : 8-hour time weighted average
US WEEL / TWA : 8-hr TWA

AllC - 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 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;

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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.

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