

# SAFETY DATA SHEET

## REDKEN SHADES ALK HAIRCOLOR - GROUP 1

Version 1.0      Revision Date: 01/02/2026      SDS Number: 80-21-410000002009      Date of last issue: -  
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### SECTION 1. IDENTIFICATION

Product name : REDKEN SHADES ALK HAIRCOLOR - GROUP 1

#### Manufacturer or supplier's details

Address : L'ORÉAL USA  
30 Terminal Avenue,  
Clark NJ 07066  
USA

Telephone : +1 732 499-2745

E-mail address : CORPREGAFFAIRSMSDS@LOREAL.COM

#### Emergency telephone number

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.

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### SECTION 2. HAZARDS IDENTIFICATION

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

#### Hazards for the product as supplied

Skin corrosion : Sub-category 1C

Serious eye damage : Category 1

Skin sensitisation : Category 1

#### Other hazards

None known.

#### GHS label elements

Hazard pictograms :



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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.

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

**Prevention:**

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

**Response:**

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

**Storage:**

P405 Store locked up.

**Disposal:**

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

**Additional Labelling**

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

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 %

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Components

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Chemical name	CAS No./Unique ID	Concentration (% w/w)
ETHANOLAMINE	141-43-5*	$\geq 7 - \leq 13$
GLYCERIN	56-81-5*	$\geq 3 - \leq 7$
LAURYL GLUCOSIDE	110615-47-9*	$\geq 0.5 - \leq 1.5$
4-AMINO-2-HYDROXYTOLUENE	2835-95-2*	$\geq 0.5 - \leq 1.5$
p-AMINOPHENOL	123-30-8*	$\geq 0.5 - \leq 1.5$
HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL	1079221-49-0*	$\geq 0.1 - \leq 1$
m-AMINOPHENOL	591-27-5*	$\geq 0.1 - \leq 1$
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE	54381-16-7*	$\geq 0.1 - \leq 1$
HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL	94158-14-2*	$\geq 0.1 - \leq 1$
TOLUENE-2,5-DIAMINE	95-70-5*	$\geq 0.1 - \leq 1$
6-HYDROXYINDOLE	2380-86-1*	$\geq 0 - \leq 0.1$

\* Indicates that the identifier is a CAS No.

### SECTION 4. FIRST AID MEASURES

- General advice : Consult a physician.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.  
Do NOT induce vomiting.  
If symptoms persist, call a physician.  
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause respiratory irritation.  
Causes severe burns.

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Corrosive to the respiratory tract.

Notes to physician : Treat symptomatically.

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### SECTION 5. FIREFIGHTING 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 firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

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

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

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### SECTION 7. HANDLING AND STORAGE

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

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- 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 sensitisation 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

#### Components 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/m <sup>3</sup>	NIOSH REL
		ST	6 ppm 15 mg/m <sup>3</sup>	NIOSH REL
GLYCERIN	56-81-5	TWA	3 ppm 6 mg/m <sup>3</sup>	OSHA Z-1
		TWA (mist, respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (mist, total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
TOLUENE-2,5-DIAMINE	95-70-5	TWA	0.005 ppm	US WEEL

#### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection
- Remarks : Applicable for industrial settings only. Nitrile rubber
- Eye protection : Applicable for industrial settings only.  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

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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.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Form : cream

Colour : No data available

Odour : 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

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

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

Solubility(ies)  
Water solubility : partly soluble

Partition coefficient: n- : Not applicable

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octanol/water

Auto-ignition 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

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### SECTION 10. STABILITY AND REACTIVITY

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

Chemical stability : Stable under normal conditions.

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

Conditions to avoid : No data available

Incompatible materials : Not applicable

Hazardous decomposition products : No hazardous decomposition products are known.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

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

#### Product:

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

Acute inhalation toxicity : Acute toxicity estimate: 178.73 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

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

#### **LAURYL GLUCOSIDE:**

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity
- 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

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

- Acute oral toxicity : LD50 (Rat, male and female): 3,600 mg/kg
- Acute inhalation toxicity : LC50 (Rat, male and female): 42.57 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rat): 5,688 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

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

- Acute oral toxicity : LD50 (Rat, male and female): 671 mg/kg  
Method: OPPTS 870.1100
- Acute inhalation toxicity : LC50 (Rat, male and female): > 3.42 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 (Rabbit): > 8,000 mg/kg  
Method: OPPTS 870.1200

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### HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:

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

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

### 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

### 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

### HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:

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

### 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

### 6-HYDROXYINDOLE:

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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  
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.

##### **LAURYL GLUCOSIDE:**

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

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

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

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

Species : Rabbit  
Result : No skin irritation

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

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

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

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

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

Species : Rabbit

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Result : No skin irritation

### **HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:**

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

### **TOLUENE-2,5-DIAMINE:**

Species : Rat  
Method : OECD Test Guideline 430  
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.

### **LAURYL GLUCOSIDE:**

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

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

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

### **p-AMINOPHENOL:**

Species : Rabbit  
Result : No eye irritation

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### HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:

Result : Eye irritation

### m-AMINOPHENOL:

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

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

Species : Rabbit  
Result : Eye irritation

### HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:

Result : Eye irritation  
Method : OECD Test Guideline 492

### TOLUENE-2,5-DIAMINE:

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

### 6-HYDROXYINDOLE:

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

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

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

#### Product:

Remarks : May cause sensitization.

#### Components:

##### ETHANOLAMINE:

Exposure routes : Skin contact  
Species : Guinea pig  
Result : Does not cause skin sensitisation.

##### LAURYL GLUCOSIDE:

Exposure routes : Skin contact

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Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

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

Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitiser, sub-category 1A.

### **p-AMINOPHENOL:**

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.

### **HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:**

Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitiser, sub-category 1B.

### **m-AMINOPHENOL:**

Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitiser, sub-category 1A.

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

Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitiser, sub-category 1A.

### **HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:**

Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitiser, sub-category 1A.

### **TOLUENE-2,5-DIAMINE:**

Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitiser, sub-category 1A.

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### 6-HYDROXYINDOLE:

Exposure routes	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	The product is a skin sensitiser, sub-category 1A.

### Germ cell mutagenicity

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

### Components:

#### LAURYL GLUCOSIDE:

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

Germ cell mutagenicity - Assessment	:	In vitro tests showed mutagenic effects
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#### HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:

Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
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#### N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE:

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

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

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
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OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
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NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
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### Reproductive toxicity

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

### Components:

#### LAURYL GLUCOSIDE:

Reproductive toxicity - Assessment	:	Weight of evidence does not support classification for reproductive toxicity
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### **p-AMINOPHENOL:**

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

### **HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:**

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

### **STOT - single exposure**

May cause respiratory irritation.  
Corrosive to the respiratory tract.

### **Components:**

#### **ETHANOLAMINE:**

Assessment : May cause respiratory irritation.

### **STOT - repeated exposure**

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

### **Components:**

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

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

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

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

### **HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:**

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

### **Repeated dose toxicity**

### **Components:**

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

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

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### HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:

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

### 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

### 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

### 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.

### Aspiration toxicity

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

### Further information

#### Product:

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

#### Components:

### ETHANOLAMINE:

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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

##### Product:

##### Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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

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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

### 4-AMINO-2-HYDROXYTOLUENE:

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.3 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: No toxicity at the limit of solubility

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

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

### p-AMINOPHENOL:

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

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

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

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

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

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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

### HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:

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

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

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

### m-AMINOPHENOL:

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

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

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

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

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

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

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

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

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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

### 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

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

### 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

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mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### 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

### Persistence and degradability

#### Components:

#### ETHANOLAMINE:

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

#### LAURYL GLUCOSIDE:

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

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

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

#### p-AMINOPHENOL:

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

#### HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 19.2 %

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Exposure time: 28 d  
Method: OECD Test Guideline 301B

### **m-AMINOPHENOL:**

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

### **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

### **HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL:**

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

### **TOLUENE-2,5-DIAMINE:**

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

### **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

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

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

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### HYDROXYETHOXY AMINOPYRAZOLOPYRIDINE HCL:

Partition coefficient: n-octanol/water : log Pow: -3.1  
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:

Additional ecological information : 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 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Dispose of in accordance with local regulations.  
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.

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## SECTION 14. TRANSPORT INFORMATION

### National Regulations

#### 49 CFR

UN/ID/NA number : UN 1760  
Proper shipping name : Corrosive liquids, n.o.s.  
(Ethanolamine)  
Class : 8

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Packing group	:	III
Labels	:	CORROSIVE
ERG Code	:	154
Marine pollutant	:	no

### 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)
Class	:	8
Packing group	:	III
Labels	:	8
EmS Code	:	F-A, S-B
Marine pollutant	:	no
Remarks	:	Alkalis

#### 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.
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### 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.

<b>SARA 311/312 Hazards</b>	:	Respiratory or skin sensitisation Skin corrosion or irritation
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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.

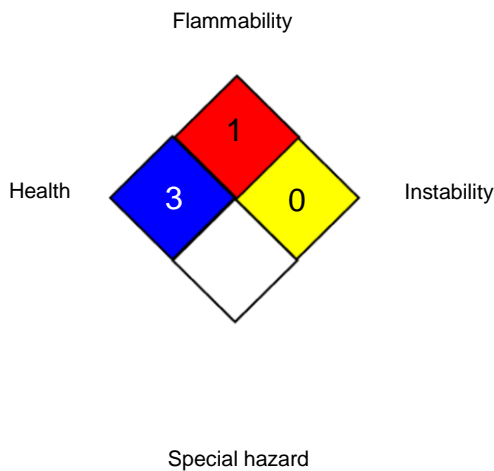
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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

#### 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

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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 Standardization; 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 Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization 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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