



# Safety Data Sheet

## ACC 2201

Safety Data Sheet dated 6/3/2017, version 1  
In compliance with Regulation (EC) 2015/830

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

#### 1.1. Product identifier

Mixture identification:

Trade name: ACC 2201  
Product type: Interior aircraft cleaner

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

Recommended use:

Washing and cleaning products (including solvent based products)

Uses advised against:

Not available

#### 1.3. Details of the supplier of the safety data sheet

Supplier:

AirChem Consumables, LOB 10, Office # 10F14, JAFZA, Dubai, UAE- Tel: +971-4-881 8084, Fax: +971-4-881 6022, Email: airacc@acc.ae

Competent person responsible for the safety data sheet:

airacc@acc.ae

#### 1.4. Emergency telephone number

AirChem Consumables, Tel: +971-4-881 8084, Fax: +971-4-881 6022, Email: airacc@acc.ae (from Sunday to Thursday from 09 AM to 6 PM; Saturdays 09 AM to 2:30 PM)

A list of Poison Control Centers is available at the following link:

[http://www.who.int/gho/phe/chemical\\_safety/poisons\\_centres/en/](http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

- Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
- Danger, Eye Dam. 1, Causes serious eye damage.
- Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

EC regulation criteria 1272/2008 (CLP)

Hazard pictograms:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.  
P280 Wear protective gloves/clothing and eye/face protection.  
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.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor.  
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

Fatty alcohol C12 -15 ethoxylated  
2,2'-(octadec-9-en-1-ylimino)diethanol

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(+)-p-Mentha-1,8-dien: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:  
None

Declaration of ingredients according to Detergent Regulation 648/2004:  
non-ionic surfactants 5 - 15 %  
aliphatic hydrocarbons, phosphates, amphoteric surfactants < 5 %  
The product also contains: Perfumes  
Allergens: Citral, (+)-p-Mentha-1,8-dien

2.3. Other hazards  
vPvB Substances: None - PBT Substances: None  
Other Hazards:  
No other hazards

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

5-10 % Fatty alcohol C12 -15 ethoxylated

CAS: 68131-39-5

- ⚠ 3.1/4/Oral Acute Tox. 4 H302
- ⚠ 3.3/1 Eye Dam. 1 H318
- ⚠ 4.1/A1 Aquatic Acute 1 H400

1-5 % 2-(2-butoxyethoxy)ethanol

REACH N° 01-2119475104-44-XXXX, Index number: 603-096-00-8, CAS: 112-34-5, EC: 203-961-6

- ⚠ 3.3/2 Eye Irrit. 2 H319

1-5 % 2,2'-(octadec-9-en-1-ylimino)diethanol

CAS: 25307-17-9, EC: 246-807-3

- ⚠ 3.1/4/Oral Acute Tox. 4 H302
- ⚠ 3.2/1B Skin Corr. 1B H314
- ⚠ 4.1/A1 Aquatic Acute 1 H400

1-5% Tetrapotassium pyrophosphate

CAS: 7320-34-5, EC: 230-785-7

- ⚠ 3.3/2 Eye Irrit. 2 H319

0.1-1% (+)-p-Mentha-1,8-dien

Index number: 601-029-00-7, CAS: 5989-27-5, EC: 227-813-5

- ⚠ 2.6/3 Flam. Liq. 3 H226
- ⚠ 3.10/1 Asp. Tox. 1 H304
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317
- ⚠ 4.1/A1 Aquatic Acute 1 H400
- ⚠ 4.1/C1 Aquatic Chronic 1 H410

0.1-1 % Potassium hydroxide

REACH N° 01-2119487136-33-XXXX, Index number: 019-002-00-8, CAS: 1310-58-3, EC: 215-181-3

- ⚠ 2.16/1 Met. Corr. 1 H290
- ⚠ 3.3/1 Eye Dam. 1 H318
- ⚠ 3.2/1A Skin Corr. 1A H314
- ⚠ 3.1/4/Oral Acute Tox. 4 H302

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0.1-1 % 2-(2-ethoxyethoxy)ethanol

REACH N° 01-2119475105-42-XXXX, CAS: 111-90-0, EC: 203-919-7

⚠ 3.3/2 Eye Irrit. 2 H319

For the complete text of the hazard and risk phrases refer to paragraph 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

#### 4.2. Most important symptoms and effects, both acute and delayed

None

#### 4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

#### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

#### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

#### 6.4. Reference to other sections

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See also section 8 and 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

#### 7.3. Specific end use(s)

For more information see Technical data bulletin

None in particular

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Contained substances

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

EU - TWA mg/m<sup>3</sup>(8h): 67.5 - LTE ppm: 10 - STEL mg/m<sup>3</sup>(15min): 101.2 - STE ppm: 15 - Behaviour: Binding - Notes:Skin

ACGIH - TWA mg/m<sup>3</sup>(8h): 66 - LTE ppm: 10 - Behaviour: Binding

Tetrapotassium pyrophosphate - CAS: 7320-34-5

ACGIH - TWA mg/m<sup>3</sup>(8h): 10 - STEL mg/m<sup>3</sup>(15min): 5 - Behaviour: Binding

(+)-p-Mentha-1,8-dien - CAS: 5989-27-5

Québec - TWA mg/m<sup>3</sup>(8h): 110 - LTE ppm: 20

Potassium hydroxide - CAS: 1310-58-3

ACGIH - STEL mg/m<sup>3</sup>(15min): Ceiling 2 - STE ppm: Ceiling 0.87 - Behaviour: Binding - Critical effects: Ceiling irritation of the skin, respiratory and eye.

EU - TWA mg/m<sup>3</sup>(8h): 2 - STEL mg/m<sup>3</sup>(15min): 2 - STE ppm: 0.87 - Behaviour: Binding

2-(2-ethoxyethoxy)ethanol - CAS: 111-90-0

ACGIH - TWA mg/m<sup>3</sup>: 180 - LTE ppm: 32

DNEL Exposure Limit Values

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

Worker Professional: 67.5 mg/m<sup>3</sup> - Consumer: 34 - U.M.: mg/m<sup>3</sup> - Exposure:

Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 101.2 mg/m<sup>3</sup> - Consumer: 50.6 - U.M.: mg/m<sup>3</sup> - Exposure:

Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 20 mg/kg - Consumer: 10 - U.M.: mg/kg - Exposure: Human

Dermal - Frequency: Long Term, systemic effects

Worker Professional: 67.5 mg/m<sup>3</sup> - Consumer: 34 - U.M.: mg/m<sup>3</sup> - Exposure:

Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.25 - U.M.: mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2,2'-(octadec-9-en-1-ylimino)diethanol - CAS: 25307-17-9

Worker Professional: 0.25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 1.76 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Tetrapotassium pyrophosphate - CAS: 7320-34-5

Worker Professional: 2.79 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

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Consumer: 0.68 - U.M.: mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Potassium hydroxide - CAS: 1310-58-3

Worker Professional: 1 mg/m<sup>3</sup> - Consumer: 1 - U.M.: mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

### PNEC Exposure Limit Values

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

Target: Fresh Water - Value: 1 mg/l

Target: Marine water - Value: 0.1 mg/l

Target: Occasional issue - Value: 3.9 mg/l

Target: Freshwater sediments - Value: 4 mg/kg

Target: Soil - Value: 0.4 mg/kg

Target: Marine water sediments - Value: 0.4 mg/kg

Target: Sewerage treatment plants - Value: 200 mg/l

2,2'-(octadec-9-en-1-ylimino)diethanol - CAS: 25307-17-9

Target: Fresh Water - Value: 0.000214 mg/l

Target: Marine water - Value: 0.000021 mg/l

Target: Microorganisms in sewage treatments - Value: 1.5 mg/l

Target: Freshwater sediments - Value: 0.0171 mg/kg

Target: Marine water sediments - Value: 0.0171 mg/kg

Target: Soil - Value: 5 mg/kg

Tetrapotassium pyrophosphate - CAS: 7320-34-5

Target: Fresh Water - Value: 0.05 mg/l

Target: Marine water - Value: 0.005 mg/l

Target: Sewerage treatment plants - Value: 50 mg/l

Target: Occasional issue - Value: 0.5 mg/l

### 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Blue scented liquid	--	--
Odour:	flowers	--	--
Odour threshold:	n.av. mg/m <sup>3</sup>	--	--
pH:	12	--	--

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Melting point / freezing point:	>0 °C	--	--
Initial boiling point and boiling range:	>100 °C	--	--
Flash point:	<60 °C	--	--
Evaporation rate:	na	--	--
Solid/gas flammability:	na	--	--
Upper/lower flammability or explosive limits:	n.av. % v/v	--	--
Vapour pressure:	3.2 kPa	--	--
Vapour density (air=1):	> 1	--	--
Relative density:	1.0 g/ml	--	--
Solubility in water:	Complete	--	--
Solubility in oil:	na	--	--
Partition coefficient (n-octanol/water):	n.av.	--	--
Auto-ignition temperature:	n.av. °C	--	--
Decomposition temperature:	n.av. °C	--	--
Viscosity:	n.av. mPa.s	--	--
Explosive properties:	Not explosive	--	--
Oxidizing properties:	Not Oxidant	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Complete in water	--	--
Fat Solubility:	na	--	--
Conductivity:	n.av.	--	--
Substance Groups relevant properties:	n.av.	--	--

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Stable under normal conditions

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- 10.3. Possibility of hazardous reactions  
It may generate flammable gases on contact with halogenated organic substances, and elementary metals.
- 10.4. Conditions to avoid  
Stable under normal conditions.
- 10.5. Incompatible materials  
None in particular.
- 10.6. Hazardous decomposition products  
None.

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

Toxicological information of the product:  
Not applicable

Toxicological information of the main substances found in the product:

Fatty alcohol C12 -15 ethoxylated - CAS: 68131-39-5

Type: a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat - Op.: > - Value: 300 - U.M.: mg/kg

Test: LD50 - Route: Skin - Species: Rabbit - Op.: > - Value: 2000 - U.M.: mg/kg

Type: b) skin corrosion/irritation:

Test: Skin Irritant - Op.: Negative

Type: c) serious eye damage/irritation:

Test: Eye Irritant - Route: EYES - Species: Rabbit - Op.: Yes

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

Type: a) acute toxicity:

Test: LD50 - Route: Oral - Species: Mouse - Op.: = - Value: 2410 - U.M.: mg/kg

Test: LD50 - Route: Skin - Species: Rabbit - Op.: = - Value: 2764 - U.M.: mg/kg

Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 3384

Type: b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Op.: Positive

Type: c) serious eye damage/irritation:

Test: Eye Irritant - Route: EYES - Species: Rabbit - Op.: Positive

Type: d) respiratory or skin sensitisation:

Test: Respiratory Tract Irritant - Route: Inhalation - Op.: Positive

2,2'-(octadec-9-en-1-ylimino)diethanol - CAS: 25307-17-9

Type: a) acute toxicity:

Test: LD50 - Route: Inhalation Vapour - Species: Rat - Op.: = - Value: 1 - U.M.: mg/kg

Test: LD50 - Route: Oral - Species: Rat - Op.: > - Value: 300 - U.M.: mg/kg

Test: LD50 - Route: Oral - Species: Rat - Op.: < - Value: 2000 - U.M.: mg/kg

Type: b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin - Species: Rabbit - Op.: Positive - Duration: 4 hours

Type: c) serious eye damage/irritation:

Test: Eye Irritant - Route: EYES - Species: Rabbit - Op.: Positive

Tetrapotassium pyrophosphate - CAS: 7320-34-5

Type: a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat - Op.: > - Value: 1000 - U.M.: mg/kg

Test: LD50 - Route: Skin - Species: Rabbit - Op.: > - Value: 2000 - U.M.: mg/kg

Test: LC50 - Route: Inhalation - Species: Rat - Op.: > - Value: 1.1 - U.M.: mg/l - Duration: 4 hours

(+)-p-Mentha-1,8-dien - CAS: 5989-27-5

Type: a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 4400 - U.M.: mg/kg

Test: LD50 - Route: Oral - Species: Mouse - Op.: > - Value: 5500 - U.M.: mg/kg

Test: LD50 - Route: Skin - Species: Rabbit - Op.: > - Value: 2000 - U.M.: mg/kg

Potassium hydroxide - CAS: 1310-58-3

Type: a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 333 - U.M.: mg/kg

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If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Based on the information available it is not expected that this product may cause any adverse environmental effect when use instructions and disposal recommendations are followed.

Adopt good working practices, so that the product is not released into the environment.

List of substances hazardous to the environment and eco-toxicological information available:

Fatty alcohol C12 -15 ethoxylated - CAS: 68131-39-5

Type: a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish - Op.: < - Value: 1 - U.M.: mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish - Op.: > - Value: 0.1 - U.M.: mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia - Op.: < - Value: 1 - U.M.: mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia - Op.: > - Value: 0.1 - U.M.: mg/l - Duration h: 48

Type: e) Plant toxicity:

Endpoint: EC50 - Species: Algae - Op.: < - Value: 1 - U.M.: mg/l - Duration h: 72

Endpoint: EC50 - Species: Algae - Op.: > - Value: 0.1 - U.M.: mg/l - Duration h: 72

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

Type: a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish - Op.: = - Value: 1300 - U.M.: mg/l - Duration h: 96 -

Notes: *Iepomis macrochirus*

Endpoint: EC50 - Species: Daphnia - Op.: > - Value: 100 - U.M.: mg/l - Duration h: 48 -

Notes: *Daphnia magna*

Endpoint: EC50 - Species: Algae - Op.: > - Value: 100 - U.M.: mg/l - Duration h: 96 -

Notes: *Selenastrum capricornutum*

2,2'-(octadec-9-en-1-ylimino)diethanol - CAS: 25307-17-9

Type: a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish - Op.: = - Value: 0.39 - U.M.: mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish - Op.: < - Value: 1 - U.M.: mg/l - Duration h: 96 -

Notes: *Carassius auratus*

Endpoint: EC50 - Species: Daphnia - Op.: < - Value: 1 - U.M.: mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae - Op.: < - Value: 1 - U.M.: mg/l - Duration h: 72

Tetrapotassium pyrophosphate - CAS: 7320-34-5

Type: a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish - Op.: > - Value: 100 - U.M.: mg/l - Duration h: 96 -

Notes: *Oncorhynchus mykiss*

Endpoint: EC50 - Species: Daphnia - Op.: > - Value: 100 - U.M.: mg/l - Duration h: 48 -

Notes: *Daphnia magna*

Endpoint: EC50 - Species: Algae - Op.: > - Value: 100 - U.M.: mg/l - Duration h: 72 -

Notes: *Desmodesmus subspicatus*

(+)-p-Mentha-1,8-dien - CAS: 5989-27-5

Type: a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish - Op.: = - Value: 33 - U.M.: mg/l - Duration h: 96 -

Notes: *Pimephales promelas*

Endpoint: EC50 - Species: Daphnia - Op.: = - Value: 69.6 - U.M.: mg/l - Duration h: 48

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Potassium hydroxide - CAS: 1310-58-3

Type: a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish - Op.: = - Value: 80 - U.M.: mg/l - Duration h: 96 -

Notes: Gambusia affinis

Endpoint: LC50 - Species: Bacteria - Op.: = - Value: 80 - U.M.: mg/l - Duration h: 24

- Notes: Mosquito

#### 12.2. Persistence and degradability

Fatty alcohol C12 -15 ethoxylated - CAS: 68131-39-5

Biodegradability: Readily biodegradable - Test: Biochemical oxygen demand - Duration:

28 days - %: Not applicable - Notes: Not applicable

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

Biodegradability: Readily biodegradable - Test: OCSE TG 302B: Test Zahn–Wellens modified, Theoretical carbon demand (ThCO<sub>2</sub>) - Duration: 28 days - %: 100 - Notes: Not applicable

Biodegradability: Readily biodegradable - Test: Oxygen consumption - Duration: 28 days - %: 85 - Notes: Activated sludge

2,2'-(octadec-9-en-1-ylimino)diethanol - CAS: 25307-17-9

Biodegradability: Not persistent and Biodegradable - Test: Dissolved oxygen - Duration:

Not applicable - %: 60 - Notes: Not applicable

Tetrapotassium pyrophosphate - CAS: 7320-34-5

Biodegradability: Not available - Test: Not applicable - Duration: Not applicable - %: Not applicable - Notes: Not applicable

Regulation (EC) No. 648/2004 on Detergents and amendments:

Surfactant(s) contained in this preparation comply with biodegradability criteria as defined in (EC) regulations on detergents.

#### 12.3. Bioaccumulative potential

Fatty alcohol C12 -15 ethoxylated - CAS: 68131-39-5

Bioaccumulation: Not bioaccumulative - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient 1 - Duration: Not applicable - Notes: Not applicable

Tetrapotassium pyrophosphate - CAS: 7320-34-5

Bioaccumulation: Not available - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable

Potassium hydroxide - CAS: 1310-58-3

Bioaccumulation: Not bioaccumulative - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable

#### 12.4. Mobility in soil

Fatty alcohol C12 -15 ethoxylated - CAS: 68131-39-5

Mobility in soil: Mobile - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

Mobility in soil: Mobile - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable

Tetrapotassium pyrophosphate - CAS: 7320-34-5

Mobility in soil: Not available - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable

#### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

#### 12.6. Other adverse effects

None

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product and its residue:

Do not dispose in the canals of wastewater, waterways and soil.

The codes indicating the type of waste are considered based on the recommendations

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and scheduled use of this product. Different codes may be assigned based on the end user's use and the characteristics of the disposal.

Waste code CER/EWC (2000/532/CE), attributable to the product as:

07 06 01\* Aqueous solution of washing and mother liquors

HP8 - HP14

Any remaining product should be disposed of with the material.

Containers/contaminated packaging

Containers, even completely empty, must not be disposed in the environment. The packagings which can not be cleaned should be disposed of as the material.

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

### SECTION 14: Transport information



- 14.1. UN number
- |                 |      |
|-----------------|------|
| ADR-UN Number:  | 1760 |
| IATA-UN Number: | 1760 |
| IMDG-UN Number: | 1760 |
- 14.2. UN proper shipping name
- |                     |  |
|---------------------|--|
| ADR-Shipping Name:  | CORROSIVE LIQUID,<br>N.O.S.(2,2'-(octadec-9-en-1-ylimino)diethanol, Potassium hydroxide) |
| IATA-Shipping Name: | CORROSIVE LIQUID,<br>N.O.S.(2,2'-(octadec-9-en-1-ylimino)diethanol, Potassium hydroxide) |
| IMDG-Shipping Name: | CORROSIVE LIQUID,<br>N.O.S.(2,2'-(octadec-9-en-1-ylimino)diethanol, Potassium hydroxide) |
- 14.3. Transport hazard class(es)
- |                                     |    |
|-------------------------------------|----|
| ADR-Class:                          | 8  |
| ADR - Hazard identification number: | 80 |
| IATA-Class:                         | 8  |
| IATA-Label:                         | 8  |
| IMDG-Class:                         | 8  |
- 14.4. Packing group
- |                     |    |
|---------------------|----|
| ADR-Packing Group:  | II |
| IATA-Packing group: | II |
| IMDG-Packing group: | II |
- 14.5. Environmental hazards
- |                              |    |
|------------------------------|----|
| ADR-Environmental Pollutant: | No |
| IMDG-Marine pollutant:       | No |
- 14.6. Special precautions for user
- |   |                |
|---|----------------|
| ADR-Subsidiary risks:                             | -              |
| ADR-S.P.:   | 274            |
| ADR-Transport category (Tunnel restriction code): | (E)            |
| IATA-Passenger Aircraft:                          | 851            |
| IATA-Subsidiary risks:                            | -              |
| IATA-Cargo Aircraft:                              | 855            |
| IATA-S.P.:  | A3 A803        |
| IATA-ERG:   | 8L             |
| IMDG-EmS:   | F-A , S-B      |
| IMDG-Subsidiary risks:                            | -              |
| IMDG-Stowage and handling:                        | Category B SW2 |

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IMDG-Segregation: -

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
No

#### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 55

Volatile Organic compounds - VOCs = 3.96 %

Volatile Organic compounds - VOCs = 39.61 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.00

Where applicable, refer to the following regulatory provisions :

Regulation (EC) n°648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Seveso III category according to Annex 1, part 1

Product belongs to category: Not applicable

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

#### SECTION 16: Other information

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H319 Causes serious eye irritation.

H314 Causes severe skin burns and eye damage.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

H290 May be corrosive to metals.

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Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

This safety data sheet has been completely updated in compliance to Regulation 2015/830. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Corr. 1A, H314	On basis of test data (pH)
Eye Dam. 1, H318	On basis of test data (pH)
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training. This MSDS cancels and replaces any preceding release.

Where applicable, refer to the following regulatory provisions :

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments; Regulation (EC) n°1272/2008; Regulation (EC) N. 790/2009 (annex VI), Regulation (EC) n. 1907/2006 (REACH).

Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments; Commission Directive n. 2006/8/CE.

Directive 2012/18/EU (Seveso III)

Directive 2013/10/EU (aerosols) amending Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) n° 1272/2008 on classification, labelling and packaging of substances and mixtures and subsequent amendments.

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Regulation (EC) No 1223/2009 on cosmetic products and subsequent amendments.  
Regulation (EU) No 126/2013 amending Annex XVII to Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and subsequent amendments. Regulation (EC) N. 304/2003 and subsequent amendments. Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products and subsequent amendments.

EU Regulation 1357/2014 (Disposal of waste ) and subsequent amendments.

The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), current edition.

Regulations IATA/ICAO = Dangerous Goods Regulations by air, current edition.

RID = Regulations concerning the International Carriage of Dangerous Goods by Rail, current edition.

IMDG Code = International Maritime Dangerous Goods Code produced by the International Maritime Organization (IMO), current edition.

#### Main bibliographic sources:

ACGIH - Threshold Limit Values - 2015

Occupational exposure limit values (Commission Directives 2000/39/EC and 2006/15/CE)

ECHA dossier

NIOSH - Registry of toxic effects of chemical substances (1983)

Material Safety Data Sheets of chemicals, REACH database

Material Safety Data Sheet and Technical Data of raw material as by Supplier.

#### Abbreviations and acronyms:

TLV-TWA = Threshold Limit Value- time-weighted average, 8-hour workday, 40-hour workweek;  
TLV-STEL-15 min = Threshold Limit Values - Short Term Exposure Limit; TLV-C = Ceiling exposure limit; Notes: IBE= Biological Exposure Indices; SEN= sensitizer; Skin= Can be absorbed through the skin. Carcinogenicity categories: A1 / A2 = confirmed / suspected human carcinogen; A3 = Animal carcinogen; A4 / A5 = Not Classifiable/not suspected as a human carcinogen. ACGIH = American Conference on Governmental Industrial Hygienists. OEL =Occupational Exposure Limit. VLPE = Occupational Exposure Limit Values. LTE =long term exposure, STE=short term exposure.

n.av.= Not Available, n.a. = not applicable; LD50=lethal dose (solids and liquids), LC50=lethal concentration (gases) that will kill 50% of the test animals; ADR= European Agreement concerning the International Carriage of Dangerous Goods by Road. Regulations IATA/ICAO = Dangerous Goods Regulations by air, current edition.

RID = Regulations concerning the International Carriage of Dangerous Goods by Rail, current edition. IMDG Code = International Maritime Dangerous Goods Code produced by the International Maritime Organization (IMO), current edition.

PBT = Persistent, Bioaccumulative and Toxic substances. ; vPvB = very Persistent and very Bioaccumulative substances; CMR = Carcinogenic, mutagenic or reproduction toxic substances.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.