Safety Data Sheet
ACC 3300

Safety Data Sheet dated 15/3/2017, 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 3300

Product type: Toilet deodorant disinfectant liquid type, concentrated

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

Recommended use:

Products such as ph-regulators, flocculants, pre-cipitants, neutralization agents

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/

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

- Danger, Skin Corr. 1B, Causes severe skin burns and eye damage.
- Danger, Eye Dam. 1, Causes serious eye damage.
- Warning, Aquatic Acute 1, Very toxic to aquatic life.
  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.
H400 Very toxic to aquatic life.
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.
P391 Collect spillage.

Special Provisions:

None

Contains

Dodecyldipropylenetriamine
Cocopropilene diamin-1,5-guanidin acetate
N,N-didecyl-n-methyl-poly(oxyethyl)ammoniumpropionate
(+)-p-Mentha-1,8-dien: May produce an allergic reaction.
Citral: May produce an allergic reaction.
Elemi oil : 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 %
cationic surfactants, aliphatic hydrocarbons, anionic surfactants	< 5 %
The product also contains:	Perfumes
Allergens:	Benzyl salicylate, Citral, (+)-p-Mentha-1,8-dien
Preservatives:	Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one

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:
1-5 % Dodecyldipropylenetriamine
CAS: 2372-82-9, EC: 219-145-8
3.1/3/Oral Acute Tox. 3 H301
3.2/1A Skin Corr. 1A H314
3.9/2 STOT RE 2 H373
4.1/A1 Aquatic Acute 1 H400

1-5 % Cocopropilene diamin-1,5-guanidin acetate
CAS: 85681-60-3, EC: 288-198-7
2.6/3 Flam. Liq. 3 H226
3.1/4/Oral Acute Tox. 4 H302
3.2/1B Skin Corr. 1B H314
4.1/A1 Aquatic Acute 1 H400

1-5 % N,N-didecyl-n-methyl-poly(oxyethyl)ammoniumpropionate
CAS: 94667-33-1
3.1/4/Oral Acute Tox. 4 H302
3.2/1B Skin Corr. 1B H314
4.1/A1 Aquatic Acute 1 H400

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 % Propan-2-ol

REACH Nº: 01-2119457558-25-XXXX, Index number: 603- 117-00-0, CAS: 67-63-0, EC: 200-661-7

- 2.6/2 Flam. Liq. 2 H225
- 3.3/2 Eye Irrit. 2 H319
- 3.8/3 STOT SE 3 H336

0.1-1 % Ethylene glycol

REACH Nº: 01-2119456816-28-XXXX, Index number: 603- 027-00-1, CAS: 107-21-1, EC: 203-473-3

- 3.1/4/Oral Acute Tox. 4 H302
- 3.9/2 STOT RE 2 H373

0.1-1 % Elemi oil

CAS: 8023-89-0, EC: 232-557-2

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

0.1-1 %Citral

Index number: 605-019-00-3, CAS: 5392-40-5, EC: 226-394-6

- 3.2/2 Skin Irrit. 2 H315
- 3.3/2 Eye Irrit. 2 H319
- 3.4.2/1 Skin Sens. 1 H317

<0.1% Morpholine

Index number: 613-028-00-9, CAS: 110-91-8, EC: 203-815-1

- 2.6/3 Flam. Liq. 3 H226
- 3.2/1B Skin Corr. 1B H314
- 3.1/4/Oral Acute Tox. 4 H302
- 3.1/4/Dermal Acute Tox. 4 H312
- 3.1/4/Inhal Acute Tox. 4 H332

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 opthalmologist 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 (CO2).
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
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.
Contamined 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 date bulletin
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Contained substances
(+)-p-Mentha-1,8-dien - CAS: 5989-27-5
Québec - TWA mg/m3(8h): 110 - LTE ppm: 20

Propan-2-ol - CAS: 67-63-0
EU - TWA mg/m3(8h): 375 - LTE ppm: 100 - STEL mg/m3(15min): 568 - STE ppm: 150 - Behaviour: Binding - Notes: A4, IBE
ACGIH - TWA mg/m3(8h): 492 - LTE ppm: 200 - STEL mg/m3(15min): 983 - STE ppm: 400 - Behaviour: Binding - Notes: A4, IBE - Critical effects:Irritation of the upper respiratory tract and eye, central nervous system.
Ethylene glycol - CAS: 107-21-1
ACGIH - STEL mg/m3(15min): Ceiling 100 - STE ppm: Ceiling 39.39 - Behaviour: Binding - Notes: A4, aerosol - Critical effects: Ceiling respiratory and eye irritation.
EU - TWA mg/m3(8h): 52 - LTE ppm: 20 - STEL mg/m3(15min): 104 - STE ppm: 40 - Behaviour: Binding
Citral - CAS: 5392-40-5
ACGIH - TWA mg/m3(8h): 31 - LTE ppm: 5 - Behaviour: Binding - Notes: Skin, A4, sensitizing, inhalable fraction, vapors and aerosols. - Critical effects: respiratory and eye irritation, effects on body mass.
Morpholine - CAS: 110-91-8
ACGIH - TWA mg/m3(8h): 71.26 - LTE ppm: 20 - Behaviour: Binding - Notes: Skin, A4 - Critical effects: eye damage, respiratory irritation
EU - TWA mg/m3(8h): 36 - LTE ppm: 10 - STEL mg/m3(15min): 72 - STE ppm: 20 - Behaviour: Binding

DNEL Exposure Limit Values
Propan-2-ol - CAS: 67-63-0
Worker Professional: 888 mg/kg - Consumer: 319 - U.M.: mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)
Worker Professional: 500 mg/m3 - Consumer: 89 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term (repeated)
Consumer: 26 - U.M.: mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)
Ethylene glycol - CAS: 107-21-1
Worker Professional: 106 mg/kg - Consumer: 53 - U.M.: mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 35 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 7 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Consumer: 7 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 35 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Citral - CAS: 5392-40-5
Worker Professional: 1.7 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 9 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 0.14 mg/cm2 - Exposure: Human Dermal - Frequency: Long Term, local effects

PNEC Exposure Limit Values
Ethylene glycol - CAS: 107-21-1
Target: Fresh Water - Value: 10 mg/l
Target: Marine water - Value: 1 mg/l
Target: Sewerage treatment plants - Value: 199.5 mg/l
Target: Freshwater sediments - Value: 20.9 mg/l
Target: Soil - Value: 1.53 mg/l
Target: Occasional issue - Value: 10 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/m3	--	--
pH:	10	--	--
Melting point / freezing point:	>0 ℃	--	--
Initial boiling point and boiling range:	>100 ℃	--	--
Flash point:	>60 ℃	--	--
Evaporation rate:	na	--	--
Solid/gas flammability:	na	--	--
Upper/lower flammability or explosive limits:	n.av. % v/v	--	--
Vapour pressure:	3.0 kPa	--	--
Vapour density (air=1):	> 1	--	--
Relative density:	1.01 g/ml	--	--
Solubility in water:	Complete	--	--
Solubility in oil:	na	--	--
Partition coefficient (n-octanol/water):	n.av.	--	--
Auto-ignition temperature:	na ℃	--	--
Decomposition temperature:	n.av. ℃	--	--

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
10.3. Possibility of hazardous reactions
It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth) and powerful reducing agents.
It may generate toxic gases on contact with oxidising mineral acids, halogenated organic substances, organic peroxides and hydroperoxides, and powerful oxidising agents.
It may catch fire on contact with powerful oxidising agents.
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:
Dodecyldipropylenetriamine - CAS: 2372-82-9
Type: a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 261 - U.M.: mg/kg
Test: LD50 - Route: Skin - Species: Rat - Op.: > - Value: 600 - U.M.: mg/kg
Type: b) skin corrosion/irritation:
Test: Skin Corrosive - Route: Skin - Species: Rabbit - Op.: Positive - Duration: 3 minutes
Cocopropilene diamin-1,5-guanidin acetate - CAS: 85681-60-3
Type: a) acute toxicity:
Test: LD50 - Route: Ingestion - Species: Rat - Op.: = - Value: 500 - U.M.: mg/kg
(+)-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

Propan-2-ol - CAS: 67-63-0
Type: a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 4710 - U.M.: mg/kg
Test: LD50 - Route: Skin - Species: Rabbit - Op.: = - Value: 16.4 - U.M.: ml/kg
Test: LD50 - Route: Skin - Species: Rabbit - Op.: = - Value: 12870 - U.M.: mg/kg
Test: LC50 - Route: Inhalation - Species: Rat - Op.: = - Value: 72.6 - U.M.: mg/l - Duration: 4 hours
Test: LC50 - Route: Inhalation Vapour - Species: Rat - Op.: > - Value: 10000 - U.M.: Ppm - Duration: 6 hours - Notes: Male and female
Test: LD50 - Route: Skin - Species: Rat - Op.: = - Value: 12800 - U.M.: mg/kg
Type: b) skin corrosion/irritation:
Test: Skin Irritant - Species: Rabbit - Op.: Positive
Type: c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit - Op.: Positive
Type: f) carcinogenicity:
Test: NOAEC - Species: Rat - Op.: = - Value: 5000 - U.M.: Ppm
Type: g) reproductive toxicity:
Test: NOAEL - Species: Rabbit - Op.: = - Value: 480 - U.M.: mg/kg
Ethylene glycol - CAS: 107-21-1
Type: a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 7712 - U.M.: mg/kg - Notes: The lethal dose in adult humans is estimated in 100ml
Test: LC50 - Route: Inhalation - Species: Rat - Op.: > - Value: 2.5 - U.M.: mg/l - Duration: 6 hours
Test: LD50 - Route: Skin - Species: Mouse - Op.: > - Value: 3500 - U.M.: mg/kg
Elemi oil - CAS: 8023-89-0
Type: a) acute toxicity:
Test: LD50 - Route: Oral - Op.: = - Value: 3370 - U.M.: mg/kg
Test: LD50 - Route: Skin - Op.: = - Value: 2500 - U.M.: mg/kg
Citral - CAS: 5392-40-5
Type: a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 4960 - U.M.: mg/kg
Test: LD50 - Route: Oral - Species: Mouse - Op.: = - Value: 6000 - U.M.: mg/kg
Test: LD50 - Route: Skin - Species: Rabbit - Op.: = - Value: 2250 - U.M.: mg/kg

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:
Dodecyldipropylenetriamine - CAS: 2372-82-9
Type: a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish - Op.: = - Value: 0.68 - U.M.: mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: LC50 - Species: Fish - Op.: = - Value: 0.45 - U.M.: mg/l - Duration h: 96 - Notes: Lepomis macrochirus
Endpoint: EC50 - Species: Daphnia - Op.: = - Value: 0.073 - U.M.: mg/l - Duration h: 48 - Notes: Daphnia magna
Type: b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia - Op.: = - Value: 0.024 - U.M.: mg/l - Duration h: 504 - Notes: Daphnia magna
Cocopropilene diamin-1,5-guanidin acetate - CAS: 85681-60-3
Type: a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish - Op.: > - Value: 0.1 - U.M.: mg/l - Duration h: 96 - Notes: Brachydanio rerio
N,N-didecyl-n-methyl-poly(oxyethyl)ammoniumpropionate - CAS: 94667-33-1
Type: a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish - Op.: = - Value: 0.78 - U.M.: mg/l - Duration h: 96 - Notes: Danio rerio
Endpoint: EC50 - Species: Daphnia - Op.: = - Value: 0.07 - U.M.: mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: LC50 - Species: Fish - Op.: = - Value: 0.63 - U.M.: mg/l - Duration h: 96 - Notes: Cyprinus carpio
Endpoint: LC50 - Species: Fish - Op.: = - Value: 0.52 - U.M.: mg/l - Duration h: 96 - Notes: Lepomis macrochirus
Endpoint: EC50 - Species: Algae - Op.: = - Value: 0.15 - U.M.: mg/l - Duration h: 72 - Notes: Desmodesmus subspicatur
(+)-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
Propan-2-ol - CAS: 67-63-0
Type: a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish - Op.: = - Value: 1400 - U.M.: mg/l - Duration h: 96 - Notes: Lepomis machrochirus
Endpoint: LC50 - Species: Fish - Op.: = - Value: 9640 - U.M.: mg/l - Duration h: 96 - Notes: Pimephales promelas
Endpoint: LC50 - Species: Fish - Op.: > - Value: 100 - U.M.: mg/l - Duration h: 96 - Notes: Pimephales promelas
Endpoint: EC50 - Species: Daphnia - Op.: = - Value: 2285 - U.M.: mg/l - Duration h: 48 - Notes: Daphnia magna
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: Scenedesmus subspicatus
Endpoint: EC50 - Species: Algae - Op.: > - Value: 100 - U.M.: mg/l - Duration h: 72 - Notes: Scenedesmus subspicatus
Type: b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia - Op.: = - Value: 30 - U.M.: mg/l - Duration h: 504 - Notes: Daphnia magna
Ethylene glycol - CAS: 107-21-1
Type: a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish - Op.: = - Value: 72860 - U.M.: mg/l - Duration h: 96 - Notes: Pimephales promelas
Endpoint: EC50 - Species: Daphnia - Op.: > - Value: 100 - U.M.: mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: EC50 - Species: Algae - Op.: > - Value: 6500 - U.M.: mg/l - Duration h: 96 - Notes: Selenastrum capricornutum
Endpoint: EC50 - Species: Algae - Op.: < - Value: 13000 - U.M.: mg/l - Duration h: 96 - Notes: Selenastrum capricornutum

Type: b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish - Op.: = - Value: 72860 - U.M.: mg/l - Duration h: 168 - Notes: Pimephales promelas
Endpoint: NOEC - Species: Daphnia - Op.: = - Value: 8590 - U.M.: mg/l - Duration h: 168 - Notes: Ceriodaphnia sp.
Citral - CAS: 5392-40-5
Type: a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish - Op.: = - Value: 6.78 - U.M.: mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia - Op.: = - Value: 10.71 - U.M.: mg/l - Duration h: 24
Endpoint: EC50 - Species: Algae - Op.: = - Value: 16 - U.M.: mg/l - Duration h: 72

12.2. Persistence and degradability
Dodecyldipropylenetriamine - CAS: 2372-82-9
Biodegradability: Readily biodegradable - Test: OCSE TG 302B: Test Zahn–Wellens modified, Theoretical carbon demand (ThCO2) - Duration: 28 days - %: 91 - Notes: Not applicable
Biodegradability: Readily biodegradable - Test: Dissolved oxygen - Duration: 28 days - %: 79 - Notes: Not applicable
N,N-didecyl-n-methyl-poly(oxyethyl)ammoniumpropionate - CAS: 94667-33-1
Biodegradability: Readily biodegradable - Test: OCSE TG 302B: Test Zahn–Wellens modified, Theoretical carbon demand (ThCO2) - Duration: 28 days - %: Not applicable - Notes: 80 %
Propan-2-ol - CAS: 67-63-0
Biodegradability: Readily biodegradable - Test: Not applicable - Duration: Not applicable - %: Not applicable - Notes: Not applicable
Ethylene glycol - CAS: 107-21-1
Biodegradability: Readily biodegradable - Test: Biochemical oxygen demand - Duration: 5GG - %: 70 - Notes: Not applicable
Citral - CAS: 5392-40-5
Biodegradability: Readily biodegradable - 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
Propan-2-ol - CAS: 67-63-0
Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient 0.05 - Duration: Not applicable - Notes: Not applicable
Ethylene glycol - CAS: 107-21-1
Bioaccumulation: Bioaccumulative - Test: Kow - Partition coefficient -1.36 - Duration: Not applicable - Notes: logPow; low
Citral - CAS: 5392-40-5
Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentrantion factor 10 - Duration: Not applicable - Notes: Not applicable

12.4. Mobility in soil
Propan-2-ol - CAS: 67-63-0
Mobility in soil: Mobile - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable
Ethylene glycol - CAS: 107-21-1
Mobility in soil: Mobile - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable
Citral - CAS: 5392-40-5
Mobility in soil: Mobile - Test: Not applicable 83 - Duration: Not applicable - Notes: Koc

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:

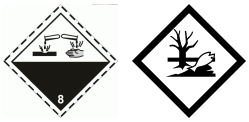
Do not dispose in the canals of wastewater, waterways and soil.
The codes indicating the type of waste are considered based on the recommendations and scheduled use of this product. Different codes may be assigned bused on the end user's use and the characteristics of the disposal.
Waste code CER/EWC (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 packigings 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:	3267
IATA-UN Number:	3267
IMDG-UN Number:	3267

14.2. UN proper shipping name

ADR-Shipping Name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine, Cocopropilene diamin-1,5-guanidin acetate)
IATA-Shipping Name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine, Cocopropilene diamin-1,5-guanidin acetate)
IMDG-Shipping Name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine, Cocopropilene diamin-1,5-guanidin acetate)

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-Enviromental Pollutant:	Yes
IMDG-Marine pollutant:	Marine Pollutant

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
IMDG-Segregation:	SG35

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:

No restriction.

Volatile Organic compounds - VOCs = 1.06 %
Volatile Organic compounds - VOCs = 10.68 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:

H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
H400 Very toxic to aquatic life.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
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.
H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
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	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
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. 1B, H314	Calculation method

Eye Dam. 1, H318	Calculation method
Aquatic Acute 1, H400	Calculation method
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°1272/2 008; 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 class ification, labelling and packaging of substances and mixtures and subsequent amendments.
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 Regulament 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-weighed 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 Classificable/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.