

# Safety Data Sheet

## ACC 2220



Safety Data Sheet dated 8/6/2016, 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 2220  
Product type: Heavy Duty Exterior 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)

 Warning, Acute Tox. 4, Harmful if swallowed.  
 Warning, Skin Irrit. 2, Causes skin irritation.  
 Danger, Eye Dam. 1, Causes serious eye damage.  
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

#### Adverse physicochemical, human health and environmental effects:

If brought into contact with the eyes, the product causes serious eye injury, such as opacity of the cornea or lesions to the iris.

#### 2.2. Label elements

EC regulation criteria 1272/2008 (CLP)

Hazard pictograms:



Danger

Hazard statements:

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P264 Wash the skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/clothing and eye/face protection.  
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

Contents:

Fatty alcohol C12 -15 ethoxylated  
Coconut diethanolamide  
Fatty alcohol (C13) ethoxylated  
Alkanolamine salt of dicarbonic acid: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

#### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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### 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:

10-20 % 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


10-20% Coconut diethanolamide

REACH N°: 01-2119490100-53-XXXX, CAS: 68603-42-9, EC: 271-657-0

 3.3/2 Eye Irrit. 2 H319


 3.2/2 Skin Irrit. 2 H315

 3.3/1 Eye Dam. 1 H318

 4.1/C2 Aquatic Chronic 2 H411

5-10 % Fatty alcohol (C13) ethoxylated


CAS: 6911-36-5


 3.1/4/Oral Acute Tox. 4 H302

 3.3/1 Eye Dam. 1 H318

0.1-1 % 2,2'-iminodiethanol

Index number: 603-071-00-1, CAS: 111-42-2, EC: 203-868-0

 3.9/2 STOT RE 2 H373

 3.2/2 Skin Irrit. 2 H315


 3.3/1 Eye Dam. 1 H318


 3.1/4/Oral Acute Tox. 4 H302


0.1-1 % 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

0.1-1 % Alkanolamine salt of dicarbonic acid

CAS: 85204-21-3, EC: 286-316-1

 3.3/1 Eye Dam. 1 H318

 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

Declaration of ingredients according to Detergent Regulation 648/2004:

non-ionic surfactants

15 - 30 %

amphoteric surfactants

5 - 15 %

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.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

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.

Give nothing to eat or drink.

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

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possible).  
Treatment:  
None

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### 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.

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### 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

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### 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

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### SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
  - Contained substances
    - 2,2'-iminodiethanol - CAS: 111-42-2  
EU - LTE mg/m<sup>3</sup>(8h): 2 - LTE ppm: 0.46 - Behaviour: Binding - Notes: Skin, A3  
ACGIH - LTE mg/m<sup>3</sup>(8h): 1 - LTE ppm: 0.46 - Behaviour: Binding - Notes: Skin, A3, inhalable particles, vapors and aerosols. - Critical effects: liver, kidneys.
    - Morpholine - CAS: 110-91-8  
ACGIH - LTE mg/m<sup>3</sup>(8h): 71.26 - LTE ppm: 20 - Behaviour: Binding - Notes: Cute, A4 - Critical effects: Danno oculare, irritazione respiratoria  
EU - LTE mg/m<sup>3</sup>(8h): 36 - LTE ppm: 10 - STE mg/m<sup>3</sup>(15min): 72 - STE ppm: 20 - Behaviour: Binding
  - DNEL Exposure Limit Values
    - 2,2'-iminodiethanol - CAS: 111-42-2  
Worker Professional: 0.13 mg/kg - Consumer: 0.07 - U.M.: mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 1 mg/m<sup>3</sup> - Consumer: 0.25 - U.M.: mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 0.06 - U.M.: mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
  - PNEC Exposure Limit Values
    - 2,2'-iminodiethanol - CAS: 111-42-2  
Target: Fresh Water - Value: 0.0022 mg/l  
Target: Marine water - Value: 0.00022 mg/l

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Target: Freshwater sediments - Value: 0.019 mg/kg  
 Target: Marine water sediments - Value: 0.0019 mg/kg  
 Target: Soil - Value: 0.00108 mg/kg  
 Target: Sewerage treatment plants - Value: 100 mg/l  
 Target: Occasional issue - Value: 0.022 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:	Clear amber liquid	--	--
Odour:	n.av.	--	--
Odour threshold:	n.av. mg/m3	--	--
pH:	8.5	--	--
Melting point / freezing point:	Initial 0 °C	--	--
Initial boiling point and boiling range:	Initial 100 °C	--	--
Flash point:	None °C	--	--
Evaporation rate:	n.av.	--	--
Solid/gas flammability:	na	--	--
Upper/lower flammability or explosive limits:	na % 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:	na °C	--	--
Decomposition temperature:	n.av. °C	--	--
Viscosity:	n.av. mPa.s	--	--
Explosive properties:	Not explosive	--	--

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Oxidizing properties:	Not Oxidant	--	--
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### 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  
None
- 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 mixture:
  - 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
  - Amides, coco, N,N-bis(hydroxyethyl) - CAS: 68603-42-9  
Type: a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat - Op.: > - Value: 10000 - U.M.: mg/kg
  - Fatty alcohol (C13) ethoxylated - CAS: 6911-36-5  
Type: a) acute toxicity:  
Test: LD50 - Route: Skin - Species: Rat - Op.: > - Value: 2000 - 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: c) serious eye damage/irritation:  
Test: Eye Irritant - Route: EYES - Species: Rabbit - Op.: Positive
  - 2,2'-iminodiethanol - CAS: 111-42-2  
Type: a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat - Op.: > - Value: 680 - U.M.: mg/kg  
Test: LD50 - Route: Oral - Species: Rat - Op.: < - Value: 1100 - U.M.: mg/kg  
Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 1600 - U.M.: mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit - Op.: = - Value: 13 - U.M.: g/kg - Source: Portale Reach  
Test: LCLo - Route: Inhalation - Species: Rat - Op.: = - Value: 0.2 - U.M.: mg/l - Duration: 8 hours

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;

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- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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### 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 - Notes: Cyprinus carpio

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

Type: e) Plant toxicity:

Endpoint: EC50 - Species: Algae - Op.: > - Value: 1 - U.M.: mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus

Amides, coco, N,N-bis(hydroxyethyl) - CAS: 68603-42-9

Type: a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish - Op.: = - Value: 4 - U.M.: mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia - Op.: = - Value: 2.3 - U.M.: mg/l - Duration h: 48

Endpoint: IC50 - Species: Algae - Op.: = - Value: 2 - U.M.: mg/l - Duration h: 72

Fatty alcohol (C13) ethoxylated - CAS: 6911-36-5

Type: a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish - Op.: > - Value: 1 - U.M.: mg/l - Duration h: 96 - Notes: Cyprinus carpio, Carassius auratus

Endpoint: LC50 - Species: Fish - Op.: < - Value: 10 - U.M.: mg/l - Duration h: 96 - Notes: Cyprinus carpio, Carassius auratus

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

Endpoint: EC50 - Species: Daphnia - Op.: < - Value: 10 - U.M.: mg/l - Duration h: 48 - Notes: Daphnia magna

2,2'-iminodiethanol - CAS: 111-42-2

Type: a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia - Op.: = - Value: 55 - U.M.: mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: LC50 - Species: Fish - Op.: = - Value: 1460 - U.M.: mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: EC50 - Species: Algae - Op.: = - Value: 2.2 - U.M.: mg/l - Duration h: 96 - Notes:

Pseudokirchneriella subcapitata

Type: b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia - Op.: = - Value: 0.78 - U.M.: mg/l - Duration h: 504 - Notes: Daphnia magna

#### 12.2. Persistence and degradability

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

Biodegradability: Readily biodegradable - Test: OCSE 301 A: COD, depletion of dissolved organic carbon - Duration: 28 days - %: Not applicable - Notes: Not applicable

Fatty alcohol (C13) ethoxylated - CAS: 6911-36-5

Biodegradability: Not persistent and Biodegradable - Test: OCSE 301 A: COD, depletion of dissolved organic carbon - Duration: Not applicable - %: 2300 - Notes: mg

2,2'-iminodiethanol - CAS: 111-42-2

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

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'-iminodiethanol - CAS: 111-42-2

Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient -1.43 - 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'-iminodiethanol - CAS: 111-42-2

Mobility in soil: Mobile - 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

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### 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 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

HP4 - HP6 - 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.

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### SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

#### 14.1 UN number:

Not applicable

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No

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### 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)

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 = 4.25 %

Volatile Organic compounds - VOCs = 42.50 g/l

Volatile CMR substances = 0.00 %

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

Organic Carbon - C = 0.02

Where applicable, refer to the following regulatory provisions :

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

Seveso III category according to Annex 1, part 1

Product belongs to category: Not applicable

#### 15.2. Chemical safety assessment

Not available

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### SECTION 16: Other information

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.

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H318 Causes serious eye damage.  
 H400 Very toxic to aquatic life.  
 H319 Causes serious eye irritation.  
 H315 Causes skin irritation.  
 H411 Toxic to aquatic life with long lasting effects.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H226 Flammable liquid and vapour.  
 H314 Causes severe skin burns and eye damage.  
 H312 Harmful in contact with skin.  
 H332 Harmful if inhaled.  
 H317 May cause an allergic skin reaction.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, 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
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
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 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
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.

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.

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:

ESIS: European chemical Substances Information System and Environmental hazard classification.

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

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



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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.