



Safety Data Sheet dated 11/3/2013, version 1  
In compliance with Regulation (EC) 453/2010

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Mixture identification:  
Trade name: ACC 5510  
Product type: water based 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](mailto:airacc@acc.ae)  
Competent person responsible for the safety data sheet:

[airacc@acc.ae](mailto:airacc@acc.ae)

### 1.4. Emergency telephone number

AirChem Consumables, Tel: +971-4-881 8084, Fax: +971-4-881 6022, Email: [airacc@acc.ae](mailto:airacc@acc.ae)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

Xi Irritant

R Phrases:

R41 Risk of serious damage to eyes.

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

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:



Xi

Symbols:

Xi Irritant

R Phrases:

R41 Risk of serious damage to eyes.

S Phrases:

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39 Wear eye/face protection.

Special Provisions:

Contents nonionic biodegradable surfactants

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 EEC directive 67/548 and CLP regulation and related classification:

5% - 15% Iso tridecyl alcohol C13 ethoxylated

CAS: 24938-91-8


Xn,Xi; R22-41

 3.1/4/Oral Acute Tox. 4 H302

 3.3/1 Eye Dam. 1 H318

1% -10% 2-(2-butoxyethoxy)ethanol


REACH No.: 01-2119475104-44-XXXX, Index number: 603-096-00-8, CAS: 112-34-5, EC: 203-961-6  
Xi; R36

 3.3/2 Eye Irrit. 2 H319

1% - 5% Methyl-1H-benzotriazole

CAS: 29385-43-1, EC: 249-596-6

Xn,Xi; R52/53-20/22-36

 3.1/4/Inhal Acute Tox. 4 H332

 3.1/4/Oral Acute Tox. 4 H302


 3.3/2 Eye Irrit. 2 H319

4.1/C3 Aquatic Chronic 3 H412

0.1% - 0.5% morpholine

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

Xn,C; R10-20/21/22-34

 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.

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.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

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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.

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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

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.

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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 - LTE: 67.5 mg/m<sup>3</sup>, 10 ppm - STE: 101.2 mg/m<sup>3</sup>, 15 ppm - Behaviour: Binding

morpholine - CAS: 110-91-8

ACGIH - LTE: 71.26 mg/m<sup>3</sup>, 20 ppm - Behaviour: Binding - Notes: Skin, A4.

EU - LTE: 36 mg/m<sup>3</sup>, 10 ppm - STE: 72 mg/m<sup>3</sup>, 20 ppm - Behaviour: Binding - Notes: Skin.

DNEL Exposure Limit Values

Not applicable

PNEC Exposure Limit Values

Not applicable

### 8.2. Exposure controls

Eye protection:

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

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

## SECTION 9: Physical and chemical properties

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

Appearance and colour: Clear liquid

Odour: n.av.

Odour threshold: n.av. mg/m<sup>3</sup>

pH: 8.5

Melting point / freezing point: initial 0 °C

Initial boiling point and boiling range: initial 100 °C

Solid/gas flammability: na

Upper/lower flammability or explosive limits: na % v/v

Vapour density (air=1): > 1

Flash point: none °C

Evaporation rate: na

Vapour pressure: 3.2 kPa

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 °C

Decomposition temperature: n.av. °C

Viscosity: n.av. mPa.s

Explosive properties: n.av.

Oxidizing properties: none

### 9.2. Other information

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Miscibility:	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 main substances found in the mixture:  
Iso tridecyl alcohol C13 ethoxylated - CAS: 24938-91-8
  - a) acute toxicity:  
Test: LD50 - Route: Ingestion - Species: Rat = 1500 mg/kg2-(2-butoxyethoxy)ethanol - CAS: 112-34-5
  - a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 3384 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit = 2700 mg/kgMethyl-1H-benzotriazole - CAS: 29385-43-1
  - a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 723 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
  - d) respiratory or skin sensitisation:  
Test: Skin Sensitization - Route: Skin - Species: Guinea-pig Negative - Source: OECD 406

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.AV.:

- 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:

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

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1300 mg/l - Duration h: 96 - Notes: lepomis macrochirus

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Endpoint: EC50 - Species: Daphnia = 100 mg/l - Duration h: 48 - Notes: Daphnia magna  
Methyl-1H-benzotriazole - CAS: 29385-43-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 64 mg/l - Duration h: 96 - Notes: Brachydanio rerio

Endpoint: LC50 - Species: Fish = 25.5 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: EC50 - Species: Daphnia > 37.6 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: IC50 - Species: Algae = 62 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus

b) Aquatic chronic toxicity:

Endpoint: EC50 - Species: Daphnia = 18.4 mg/l - Duration h: 504 - Notes: Daphnia magna

12.2. Persistence and degradability

Methyl-1H-benzotriazole - CAS: 29385-43-1

Biodegradability: Non-rapidly degradable - Test: Not applicable - Duration: Not applicable - %: Not applicable - Notes: Not applicable

Biodegradability: Not applicable Test: Dissolved organic carbon - Duration: 28 days - %: 4 - Notes: Not applicable

Biodegradability: Not applicable Test: BIODG06 - Duration: 28 days - %: 70 - 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

Not applicable

12.4. Mobility in soil

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 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 washing liquids and mother liquors

H4 Irritating

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

Not classified as dangerous in the meaning of transport regulations.

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

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- IMDG-Marine pollutant: No
- 14.6. Special precautions for user  
Not applicable
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
No

### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

1999/13/EC (VOC directive)

Volatile Organic compounds - VOCs = 0.50 %

Volatile Organic compounds - VOCs = 5.05 g/l

Volatile CMR substances = 0.00 %

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

Organic Carbon - C = 0.00

- 15.2. Chemical safety assessment  
Not available

### SECTION 16: Other information

Full text of phrases referred to in Section 3:

R10 Flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.

R34 Causes burns.

R36 Irritating to eyes.

R41 Risk of serious damage to eyes.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H312 Harmful in contact with skin.

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.

Regulation (EC) nr 648/2004 and CE N. 907/2006 (Detergents).

Directive 2003/105/EC ('Activities linked to risks of serious accidents') and subsequent amendments.

Directive 75/324/EEC (aerosols) and subsequent amendments. Directive 76/768/CEE (cosmetic products) and subsequent amendments.

Directive 76/769/EEC (restrictions on the marketing and use of certain dangerous substances and preparations) and subsequent amendments. Regulation (EC) N. 304/2003 and subsequent amendments.

Directive 98/8/CE (placing of biocidal products on the market) and subsequent amendments.

Directives 91/156/CEE, 91/689/CEE, 94/62/CE (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.

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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.  
Directive 91/271/EEC and 91/676/CEE (protection of waters) and subsequent amendments.

#### 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)  
ACGIH - TLV's for 2010  
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  
The ISS National Inventory of Chemical Substances (INSC)

#### 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. 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.