



Xi

Safety Data Sheet dated 28/3/2012, 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: BURNISH  
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:  
None in particular

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

Supplier:  
AirChem Consumables, Sharjah Airport International Zone (SAIF Zone, A2-099), Sharjah, UAE. P.O. BOX 8994.  
TEL: +971 6 552 8946 FAX: +971 6 552 8947, 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 6 552 8946 FAX: +971 6 552 8947, 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:  
Contain nonionic and amphoteric biodegradable surfactants.

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

1% - 5% Alcohol (C11-13) polyethoxylated  
REACH N°: Polymer, CAS: 68439-54-3, EC: 931-985-3  
Xn,Xi; R22-41



3.1/4/Oral Acute Tox. 4 H302



3.3/1 Eye Dam. 1 H318

1% - 5% Alkyl betaine  
CAS: 683-10-3, EC: 211-669-5  
Xi; R38-41



3.2/2 Skin Irrit. 2 H315

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3.3/1 Eye Dam. 1 H318

1% - 5% Dipropylen glycol ether

REACH No.: 01-2119450011-60-XXXX, CAS: 34590-94-8, EC: 252-104-2  
substance with a Community workplace exposure limit

1% - 5% Sodium metasilicate

REACH No.: 01-2119449811-37-XXXX, Index number: 014-010-00-8, CAS: 10213-79-3, EC: 229-912-9  
Xi,C; R34-37



3.2/1B Skin Corr. 1B H314



3.8/3 STOT SE 3 H335



2.16/1 Met. Corr. 1 H290

1% - 5% Triethanolamine

CAS: 102-71-6, EC: 203-049-8  
Xi; R36/37/38

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:

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.

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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.  
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  
Dipropylen glycol ether - CAS: 34590-94-8  
OEL Type: ACGIH, 100 ppm, 150 ppm - Behaviour: Binding - Notes: Skin  
OEL Type: EU - LTE: 308 mg/m<sup>3</sup>, 50 ppm - Behaviour: Binding - Notes: Skin  
VLE 8h - VLE short: None  
2,2',2"-Nitrilotriethanol - CAS: 102-71-6  
OEL Type: ACGIH - LTE: 5 mg/m<sup>3</sup> - Behaviour: Binding  
VLE 8h - VLE short: None  
DNEL Exposure Limit Values  
Sodium metasilicate - CAS: 10213-79-3  
Worker Professional: 6.22 mg/m<sup>3</sup> - Consumer: 1.55 mg/m<sup>3</sup> - Exposure: Human Inhalation Long Term, systemic effects  
Worker Professional: 1.49 mg/kg - Consumer: 0.74 mg/kg - Exposure: Human Dermal Long Term, systemic effects  
Worker Professional: 0.74 mg/kg - Exposure: Human Oral Long Term, systemic effects  
PNEC Exposure Limit Values  
Sodium metasilicate - CAS: 10213-79-3  
Fresh Water 7.5 mg/l  
Marine Water 1 mg/l
- 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:                        | slightly yellow liquid  |
| Odour:  | typical                 |
| Odour threshold:                              | n.av. mg/m <sup>3</sup> |
| pH:   | 12                      |
| 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:                             | 1.07 g/ml               |
| Solubility in water:                          | complete                |
| Lipid solubility:                             | n.av.                   |
| Partition coefficient (n-octanol/water):      | n.av.                   |
| Auto-ignition temperature:                    | none °C                 |
| Decomposition temperature:                    | n.av. °C                |
| Viscosity:                                    | n.av. mPa.s             |

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Explosive properties:	none
Oxidizing properties:	none
9.2 Other information	
Miscibility:	n.av.
Fat Solubility:	n.av.
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 mixture:  
There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.  
Toxicological information of the main substances found in the mixture:  
Alcohol (C11-13) polyethoxylated - CAS: 68439-54-3
  - a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 300-2000 mg/kg  
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
  - c) serious eye damage/irritation:  
Test: Eye Irritant - Species: Rabbit Positive - Notes: serious injuryAlkyl betaine - CAS: 683-10-3
  - a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kgDipropylen glycol ether - CAS: 34590-94-8
  - a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 5135 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit = 9500 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat = 55 mg/l - Duration: 4hSodium metasilicate - CAS: 10213-79-3
  - a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 1152 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat > 2.06 g/m<sup>3</sup>  
Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg - Notes: bw2,2',2"-Nitrilotriethanol - CAS: 102-71-6
  - a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 4920 mg/kg

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:  
Dipropylen glycol ether - CAS: 34590-94-8  
Test: LC50 - Species: Fish - Duration h: 96 - mg/l: 10000  
Test: EC50 - Species: Daphnia - Duration h: 48 - mg/l: 1919 Daphnia magna  
Sodium metasilicate - CAS: 10213-79-3  
Test: LC50 - Species: Fish - Duration h: 96 - mg/l: 1108 Brachydanio rerio  
Test: EC50 - Species: Daphnia - Duration h: 48 - mg/l: 1700 Daphnia magna

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Test: EC50 - Species: Algae - Duration h: 72 - mg/l: 207 Scenedesmus subspicatus  
2,2',2"-Nitrilotriethanol - CAS: 102-71-6  
Test: LC50 - Species: Fish - Duration h: 96 - mg/l: 11800

### 12.2. Persistence and degradability

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\*

H4

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 applicable

### 14.2 UN proper shipping name:

ADR-Shipping Name:

NOT SUBJECT TO ADR

IATA-Technical name:

Not subject

IMDG-Technical name:

Not subject

### 14.3 Transport hazard class(es):

Not applicable

### 14.4 Packing Group:

Not applicable

### 14.5 Environmental hazards

Not applicable

### 14.6 Special Precautions for User

Not applicable

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## 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 = 2.50 %

Volatile Organic compounds - VOCs = 26.75 g/l

Volatile CMR substances = 0.00 %

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

Organic Carbon - C = 0.01

### 15.2 Chemical Safety Assessment

Not available

## SECTION 16: Other information

Full text of phrases referred to in Section 3:

R22 Harmful if swallowed.

R34 Causes burns.

R36/37/38 Irritating to eyes, respiratory system and skin.

R37 Irritating to respiratory system.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H315 Causes skin irritation.

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H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H290 May be corrosive to metals.

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

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.

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.

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:

The ISS National Inventory of Chemical Substances (INSC)

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

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.