



Safety Data Sheet dated 16/10/2014, 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: DISHINE
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
Competent person responsible for the safety data sheet:
airacc@acc.ae
- 1.4. Emergency telephone number
AirChem Consumables, TEL: +971 6 552 8946 FAX: +971 6 552 8947, Email: 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:
No other hazards

- 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:
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 Wear eye/face protection.
Special Provisions:
WARNING: This product can 'pollute the seas, lakes and rivers. Do not overuse.
It does NOT contain phosphorus compounds (Law 7/86)
Contents anionic 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

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% - 10% Sodium alkylaryl sulfonate
REACH N°: 01-2119565112-48-XXXX, EC: 932-051-8
Xn,Xi; R22-38-41
- 3.1/4/Oral Acute Tox. 4 H302
- 3.2/2 Skin Irrit. 2 H315
- 3.3/1 Eye Dam. 1 H318
- 4.1/C3 Aquatic Chronic 3 H412
- 1% - 5% Sodium lauryl ethoxy sulfate
CAS: 68585-34-2, EC: 500-223-8

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DISHINE

- Xi; R38-41
 3.2/2 Skin Irrit. 2 H315
 3.3/1 Eye Dam. 1 H318

Declaration of ingredients according to Detergent Regulation 648/2004:

anionic surfactants		5 - 15 %
amphoteric surfactants		< 5 %
The product also contains:	Perfumes	
Allergens:	Limonene	
Preservatives:	Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one	

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 (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.

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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

No occupational exposure limit available

DNEL Exposure Limit Values

Sodium alkylaryl sulfonate

Consumer: 0.85 - U.M.: mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 170 mg/kg - Consumer: 85 - U.M.: mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 12 mg/m³ - Consumer: 3 - U.M.: mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Sodium alkylaryl sulfonate

Target: Marine water - Value: 0.0268 mg/l

Target: Fresh Water - Value: 0.268 mg/l

Target: Occasional issue - Value: 0.055 mg/l

Target: Sewerage treatment plants - Value: 5.6 mg/l

Target: Marine water sediments - Value: 8.1 mg/kg

Target: Freshwater sediments - Value: 8.1 mg/kg

Target: Soil - Value: 35 mg/kg

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:

liquid viscous green

Odour:

lemon

Odour threshold:

n.av. mg/m³

pH:

7

Melting point / freezing point:

initial 0 °C

Initial boiling point and boiling range:

100 °C

Solid/gas flammability:

na

Upper/lower flammability or explosive limits:

none % v/v

Vapour density (air=1):

> 1

Flash point:

none °C

Evaporation rate:

none

Vapour pressure:

3.2 kPa

Relative density:

1.02 g/ml

Solubility in water:

complete

Solubility in oil:

n.av.

Partition coefficient (n-octanol/water):

n.av.

Auto-ignition temperature:

none °C

Decomposition temperature:

none °C

Viscosity:

800 mPa.s

Explosive properties:

none

Oxidizing properties:

none

9.2. Other information

Miscibility:

complete in water

Fat Solubility:

none

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Conductivity: n.av.
Substance Groups relevant properties: none

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
- 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:
Sodium alkylaril sulfonate
 - a) acute toxicity:
LD50 Oral Rat > 2000 mg/kg
LD50 Skin Rat > 2000 mg/kg
 - b) skin corrosion/irritation:
Skin Irritant Skin Rabbit Positive
 - c) serious eye damage/irritation:
Eye Irritant EYES Rabbit Positive Serious injurySodium lauryl ethoxy sulfate - CAS: 68585-34-2
 - a) acute toxicity:
LD50 Oral Rat > 2000 mg/kg
LD50 Skin Rabbit > 2000 mg/kg
 - b) skin corrosion/irritation:
Skin Irritant Skin Positive
 - c) serious eye damage/irritation:
Eye Irritant EYES Positive

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:

- Sodium alkylaril sulfonate
 - a) Aquatic acute toxicity:
LC50 Fish > 1 mg/l 96 Cyprinus carpio
LC50 Fish -1 10 mg/l 96 Cyprinus carpio
EC50 Daphnia > 1 mg/l 48 Daphnia magna
EC50 Daphnia -1 10 mg/l 48 Daphnia magna
EC50 Algae > 10 mg/l 72 Desmodesmus subspicatus
EC50 Algae -1 100 mg/l 72 Desmodesmus subspicatus
 - b) Aquatic chronic toxicity:
NOEC Fish > 0.1 mg/l 1728 Oncorhynchus mykiss
NOEC Fish -1 1 mg/l 1728 Oncorhynchus mykiss
NOEC Daphnia > 1 mg/l 504 Daphnia magna
NOEC Daphnia -1 10 mg/l 504 Daphnia magna
- Sodium lauryl ethoxy sulfate - CAS: 68585-34-2
 - a) Aquatic acute toxicity:
LC50 Fish = 7.1 mg/l 96 Brachydanio rerio
EC50 Daphnia = 7.7 mg/l 48
IC50 Algae = 12 mg/l 72 Scenedesmus subspicatus

- 12.2. Persistence and degradability
Sodium alkylaril sulfonate

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Biodegradability: Readily biodegradable - Test: Biochemical oxygen demand - Duration: 28 days - %: 70 - Notes: Not applicable

Biodegradability: Readily biodegradable - Test: CO₂ production - Duration: 28 days - %: 60 - 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

Sodium alkylaryl sulfonate

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

12.4. Mobility in soil

Sodium alkylaryl sulfonate

Mobility in soil: Not 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

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

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 classified in accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

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 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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)

Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Dir. 2006/8/EC

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) n. 453/2010 (Annex I)

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

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

None

Where applicable, refer to the following regulatory provisions :

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.

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

1999/13/EC (VOC directive)

Volatile Organic compounds - VOCs = 0.00 %

Volatile Organic compounds - VOCs = 0.00 g/l

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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:

R22 Harmful if swallowed.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.

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

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 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.
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. 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.