Safety Data Sheet
PATINA

Safety Data Sheet dated 2/10/2013, version 3
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: PATINA

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. 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:

None.

R Phrases:

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

Adverse physicochemical, human health and environmental effects:

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

2.2. Label elements

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

R Phrases:

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

S Phrases:

S60 This material and its container must be disposed of as hazardous waste.

Contents:

limonene: May produce an allergic reaction.

Special Provisions:

Safety data sheet available for professional user on request.

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:

0.1 -1.0 % Dipropylen glycol ether

REACH N°: 01-2119450011-60-XXXX, CAS: 34590-94-8, EC: 252-104-2

substance with a Community workplace exposure limit

01 - 1.0% Quaternary ammonium compounds, benzyl-alkyldimethyl, chlorides
CAS: 68424-85-1, EC: 270-325-2
Xn,C,N; R50-21/22-34

3.1/4/Dermal Acute Tox. 4 H312


3.1/4/Oral Acute Tox. 4 H302


3.2/1B Skin Corr. 1B H314


4.1/A1 Aquatic Acute 1 H400

0.1 - 0.5 % limonene
Index number: 601-029-00-7, CAS: 7705-14-8, EC: 231-732-0
Xi,N; R10-38-43-50/53

2.6/3 Flam. Liq. 3 H226


3.2/2 Skin Irrit. 2 H315


3.4.2/1 Skin Sens. 1 H317


4.1/A1 Aquatic Acute 1 H400


4.1/C1 Aquatic Chronic 1 H410

For the complete text of the hazard and risk phrases refer to paragraph 16
Declaration of ingredients according to Detergent Regulation 648/2004:
non-ionic surfactants, EDTA and salts, cationic surfactants < 5 %
The product also contains: Perfumes
Allergens: citral, limonene, Geraniol
Preservatives: Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and 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 opthalmologist 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.
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
Dipropylen glycol ether - CAS: 34590-94-8
ACGIH - LTE ppm: 100 - STE ppm: 150 - Behaviour: Binding - Notes: Skin. Respiratory and eye irritation, central nervous system.
EU - LTE mg/m3: 308 - LTE ppm: 50 - Behaviour: Binding - Notes: Skin.
Limonene - CAS: 7705-14-8
ACGIH - LTE mg/m3: 140 - LTE ppm: 25 - STE mg/m3: 300 - STE ppm: 50 - Behaviour: Binding

DNEL Exposure Limit Values
Not applicable

PNEC Exposure Limit Values

Not applicable

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

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:	pink liquid
Odour:	lemon, flowers
Odour threshold:	n.av. mg/m3
pH:	7.0
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:	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:	n.av.
Partition coefficient (n-octanol/water):	n.av.
Auto-ignition temperature:	none °C
Decomposition temperature:	none °C
Viscosity:	n.av. mPa.s
Explosive properties:	none
Oxidizing properties:	none

9.2. Other information

Miscibility:	complete in water
Fat Solubility:	n.av.
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

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:

Dipropylen glycol ether - CAS: 34590-94-8

a) acute toxicity:
LD50 Oral Rat = 5135 mg/kg
LD50 Skin Rabbit = 9500 mg/kg
LC50 Inhalation Rat = 55 mg/l 4h
Quaternary ammonium compounds, benzyl-alkyldimethyl, chlorides - CAS: 68424-85-1
a) acute toxicity:
LD50 Oral Rat = 398 mg/kg
LD50 Skin Rat > 800 mg/kg
LD50 Oral Mouse = 919 mg/kg
b) skin corrosion/irritation:
Eye Irritant EYES Rabbit Positive
Skin Corrosive Skin Rat 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:
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Dipropylen glycol ether - CAS: 34590-94-8
a) Aquatic acute toxicity:
LC50 Fish = 10000 mg/l 96
EC50 Daphnia = 1919 mg/l 48 Daphnia magna
Quaternary ammonium compounds, benzyl-alkyldimethyl, chlorides - CAS: 68424-85-1
a) Aquatic acute toxicity:
LC50 Fish = 0.85 mg/l 96
EC50 Daphnia = 0.016 mg/l 48 Daphnia magna
EC50 Algae = 0.06 mg/l 96 Selenastrum capricornum

12.2. Persistence and degradability
Quaternary ammonium compounds, benzyl-alkyldimethyl, chlorides - CAS: 68424-85-1
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
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 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 99* - Wastes not otherwise specified.

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

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-Enviromental 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

1999/13/EC (VOC directive)

Volatile Organic compounds - VOCs = 0.70 %
Volatile Organic compounds - VOCs = 7.07 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.
R21/22 Harmful in contact with skin and if swallowed.
R34 Causes burns.
R38 Irritating to skin.
R43 May cause sensitization by skin contact.
R50 Very toxic to aquatic organisms.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H312 Harmful in contact with skin.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
H226 Flammable liquid and vapour.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Paragraphs modified from the previous revision:

SECTION 3: Composition/information on ingredients
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological information

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).
Commmission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments; Commmission 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-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.