Safety Data Sheet
COFFEE CLEAN


C

Safety Data Sheet dated 23/7/2014, 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: COFFEE CLEAN

Product type: rust, scale remover

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:

Xn Harmful
Xi Irritant
C Corrosive

R Phrases:

R22 Harmful if swallowed.
R34 Causes burns.
R37 Irritating to respiratory system.
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:


C

Symbols:

C Corrosive

R Phrases:

R22 Harmful if swallowed.
R34 Causes burns.
R37 Irritating to respiratory system.
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.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Contents:

Sodium percarbonate
Sodium metasilicate

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:

20-30% Sodium carbonate

REACH N°: 01-2119485498-19-XXXX, Index number: 011-005-00-2, CAS: 497-19-8, EC: 207-838-8

Xi; R36

3.3/2 Eye Irrit. 2 H319

20-30% Sodium percarbonate
REACH N°: 01-2119457268-30-XXXX, CAS: 15630-89-4, EC: 239-707-6
O,Xn,Xi; R22-41-8
2.13/2 Ox. Liq. 2 H272
3.1/4/Oral Acute Tox. 4 H302
3.3/1 Eye Dam. 1 H318

20-30% Sodium metasilicate
REACH N°: 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

10-20% Trisodium orthophosphate
REACH N°: 01-2119489800-32-XXXX, CAS: 7601-54-9, EC: 231-509-8
Xi; R36/37/38
3.3/2 Eye Irrit. 2 H319
3.8/3 STOT SE 3 H335
3.2/2 Skin Irrit. 2 H315

1-5% Tetrasodium-ethylenediaminetetraacetate
REACH N°: 01-2119486762-27-XXXX, Index number: 607-428-00-2, CAS: 64-02-8, EC: 200-573-9
Xn,Xi; R20-22-38
3.1/4/Inhal Acute Tox. 4 H332
3.1/4/Oral Acute Tox. 4 H302
3.2/2 Skin Irrit. 2 H315

1-5% Sodium benzoate
REACH N°: 01-2119460683-35-XXXX, CAS: 532-32-1, EC: 208-534-8
Xi; R36
3.3/2 Eye Irrit. 2 H319

1-5% Fatty alcohols ethoxylated propoxylated
CAS: 68603-25-8
Xn,Xi; R22-41
3.1/4/Oral Acute Tox. 4 H302
3.3/1 Eye Dam. 1 H318

Declaration of ingredients according to Detergent Regulation 648/2004:

oxygen-based bleaching agents	15 - 30 %
phosphates	5 - 15 %
non-ionic surfactants, EDTA and salts	< 5 %

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 opthalmologist immediately.

Protect uninjured eye.
In case of Ingestion:
Do NOT induce vomiting.
Give nothing to eat or drink.
In case of Inhalation:
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.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use appropriate respiratory protection.
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.
Use localized ventilation system.
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
Sodium carbonate - CAS: 497-19-8
ACGIH - LTE mg/m3: 10 - Behaviour: Binding - Notes: Total dust
Sodium percarbonate - CAS: 15630-89-4
ACGIH - LTE mg/m3: 10 - Behaviour: Binding - Notes: inhalable fraction
ACGIH - LTE mg/m3: 3 - Behaviour: Binding - Notes: respirable fraction
Sodium metasilicate - CAS: 10213-79-3
OEL - LTE mg/m3: 10 - Behaviour: Binding - Notes: respirable fraction
OEL - LTE mg/m3: 3 - Behaviour: Binding - Notes: inhalable fraction

OEL - STE mg/m3: 2 - Behaviour: Indicative - Notes: as NaOH
Trisodium orthophosphate - CAS: 7601-54-9
TLV-TWA - 10 mg/m3, polveri totali inalabili(ACGIH)
Tetrasodium-ethylenediaminetetraacetate - CAS: 64-02-8
ACGIH - LTE mg/m3: 10 - Behaviour: Binding - Notes: powder: inhalable fraction
ACGIH - LTE mg/m3: 3 - Behaviour: Binding - Notes: powder: respirable fraction

DNEL Exposure Limit Values
Sodium carbonate - CAS: 497-19-8
Worker Professional: 10 mg/m3 - Consumer: 10 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Sodium percarbonate - CAS: 15630-89-4
Worker Professional: 12.8 mg/cm2 - Consumer: 6.4 - U.M.: mg/cm2 - Exposure: Human Dermal - Frequency: Short Term, local effects
Worker Professional: 12.8 mg/cm2 - Consumer: 6.4 - U.M.: mg/cm2 - Exposure: Human Dermal - Frequency: Long Term, local effects
Sodium metasilicate - CAS: 10213-79-3
Worker Professional: 6.22 mg/m3 - Consumer: 1.55 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 1.49 mg/kg - Consumer: 0.74 - U.M.: mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 0.74 - U.M.: mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Trisodium orthophosphate - CAS: 7601-54-9
Consumer: 3.04 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 4.07 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Tetrasodium-ethylenediaminetetraacetate - CAS: 64-02-8
Consumer: 25 - U.M.: mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 2.5 mg/m3 - Consumer: 1.5 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 2.5 mg/m3 - Consumer: 1.5 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Sodium benzoate - CAS: 532-32-1
Worker Professional: 34.7 mg/kg - Consumer: 20.8 - U.M.: mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 10.4 mg/m3 - Consumer: 2.1 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 6.3 mg/m3 - Consumer: 1.3 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 25 - U.M.: mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 4.5 mg/cm2 - Consumer: 6.3 - U.M.: mg/cm2 - Exposure: Human Dermal - Frequency: Long Term, local effects

PNEC Exposure Limit Values
Sodium percarbonate - CAS: 15630-89-4
Target: Marine water - Value: 0.035 mg/l
Target: Fresh Water - Value: 0.035 mg/l
Target: Occasional issue - Value: 0.035 mg/l
Sodium metasilicate - CAS: 10213-79-3
Target: Fresh Water - Value: 7.5 mg/l
Target: Marine water - Value: 1 mg/l
Target: Occasional issue - Value: 7.5 mg/l
Target: Sewerage treatment plants - Value: 1000 mg/l
Trisodium orthophosphate - CAS: 7601-54-9
Target: Marine water - Value: 0.005 mg/l
Target: Fresh Water - Value: 0.05 mg/l
Target: Occasional issue - Value: 0.5 mg/l
Target: Sewerage treatment plants - Value: 50 mg/l
Tetrasodium-ethylenediaminetetraacetate - CAS: 64-02-8
Target: Marine water - Value: 0.22 mg/l
Target: Fresh Water - Value: 2.2 mg/l
Target: Occasional issue - Value: 1.2 mg/l
Target: Sewerage treatment plants - Value: 43 mg/l
Target: Soil - Value: 0.72 mg/kg

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:
Use respiratory protection where ventilation is insufficient or exposure is prolonged.
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:	granular powder
Odour:	odorless
Odour threshold:	na mg/m3
pH:	12
Melting point / freezing point:	> 60° decomposes °C
Initial boiling point and boiling range:	n.av. °C
Solid/gas flammability:	none
Upper/lower flammability or explosive limits:	na % v/v
Vapour density (air=1):	na
Flash point:	na °C
Evaporation rate:	na
Vapour pressure:	na kPa
Relative density:	n.av. g/ml
Solubility in water:	complete
Solubility in oil:	na
Partition coefficient (n-octanol/water):	n.av.
Auto-ignition temperature:	n.av. °C
Decomposition temperature:	> 60 °C
Viscosity:	na mPa.s
Explosive properties:	none
Oxidizing properties:	containing oxidizing substances

9.2. Other information

Miscibility:	na
Fat Solubility:	na
Conductivity:	na
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

It may generate flammable gases on contact with nitrides.
It may generate toxic gases on contact with aliphatic and aromatic amines, carbamates, dithiocarbamates, mercaptans and other organic sulphides, nitriles, inorganic sulphides, and combustible and inflammable materials.
It may catch fire on contact with alcohols and glycols, azo, diazo and hydrazines compounds, carbamates, dithiocarbamates, mercaptans and other organic sulphides, nitrides, and combustible and inflammable materials.

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 carbonate - CAS: 497-19-8

a) acute toxicity:

LD50 Oral Rat = 2800 mg/kg
LC50 Inhalation Mouse = 1.2 mg/l 2 hours
LC50 Inhalation Rat = 2.3 mg/l 2 hours
LD50 Skin Rabbit > 2000 mg/kg
LC50 Inhalation Guinea-pig = 0.8 mg/l 2 hours

Sodium percarbonate - CAS: 15630-89-4

a) acute toxicity:

LD50 Ingestion Rat = 1034 mg/kg
LC50 Inhalation Rat = 1200 mg/m3
LC50 Inhalation Rat > 170 g/m3 4 hours
LD50 Skin Rabbit > 2000 mg/kg

c) serious eye damage/irritation:

Eye Irritant EYES Rabbit Positive

Sodium metasilicate - CAS: 10213-79-3

a) acute toxicity:

LD50 Oral Rat > 1152 mg/kg
LD50 Oral Rat -1 1349 mg/kg
LC50 Inhalation Rat > 2.06 g/m3 4 hours
LD50 Skin Rat > 5000 mg/kg bw

b) skin corrosion/irritation:

Skin Corrosive Skin Rat Positive OECD 404

c) serious eye damage/irritation:

Eye Irritant EYES Rabbit Positive OECD 405

Trisodium orthophosphate - CAS: 7601-54-9
a) acute toxicity:
LD50 Oral Rat = 2000 mg/kg
LD50 Skin Rat = 2000 mg/kg
LC50 Inhalation Rat > 0.83 mg/l 4 hours
Tetrasodium-ethylenediaminetetraacetate - CAS: 64-02-8
a) acute toxicity:
LD50 Oral Rat = 2581 mg/kg
LC50 Inhalation Rat > 1000 mg/m3 4 hours
LC50 Inhalation Rat -1 5000 mg/m3 4 hours
LD50 Skin Rabbit > 5000 mg/kg
b) skin corrosion/irritation:
Skin Irritant Skin Rat Positive
c) serious eye damage/irritation:
Eye Corrosive EYES Positive
Sodium benzoate - CAS: 532-32-1
a) acute toxicity:
LD50 Oral Rat > 2000 mg/kg
LC50 Inhalation Rat > 12.2 mg/l
LD50 Skin Rabbit > 2000 mg/kg
Fatty alcohols ethoxylated propoxylated - CAS: 68603-25-8
a) acute toxicity:
LD50 Oral Rat = 616 mg/kg female
LD50 Oral Rat = 3762 mg/kg
LD50 Skin Rabbit = 5660 mg/kg female
LC50 Inhalation Rat > 8.0 mg/l 1 hour
b) skin corrosion/irritation:
Skin Irritant Skin Positive
c) serious eye damage/irritation:
Eye Corrosive EYES Rabbit 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 carbonate - CAS: 497-19-8
a) Aquatic acute toxicity:
LC50 Fish = 300 mg/l 96 Lepomis macrochirus
EC50 Daphnia = 200 mg/l 48 Ceriodaphnia dubia
LC50 Fish = 740 mg/l 96 Gambusia affinis
Sodium percarbonate - CAS: 15630-89-4
a) Aquatic acute toxicity:
LC50 Fish = 70.7 mg/l 96 Pimephales promelas
EC50 Daphnia = 4.9 mg/l 48 Daphnia pulex
Sodium metasilicate - CAS: 10213-79-3
a) Aquatic acute toxicity:
LC50 Fish = 210 mg/l 96 Brachydanio rerio
LC50 Fish = 2320 mg/l 96 Gambusia affinis
EC50 Daphnia = 1700 mg/l 48 Daphnia magna
EC50 Algae = 207 mg/l 72 Scenedesmus subspicatus
Trisodium orthophosphate - CAS: 7601-54-9
a) Aquatic acute toxicity:
LC50 Fish = 150 mg/l 96 Gambusia affinis
LC50 Fish > 100 mg/l 96 Oncorhynchus mykiss
EC50 Daphnia > 100 mg/l 48 Daphnia magna
EC50 Algae > 100 mg/l 72 Desmodesmus subspicatus
EC50 Bacteria > 1000 mg/l 3 Fanghi attivi
Tetrasodium-ethylenediaminetetraacetate - CAS: 64-02-8
a) Aquatic acute toxicity:
LC50 Fish > 1000 mg/l 96 Lepomis macrochirus

EC50 Daphnia = 140 mg/l 48 Daphnia magna
EC50 Daphnia = 40.4 mg/l 48 Ceriodaphnia dubia
EC50 Algae > 300 mg/l 72 Pseudokirchneriella subcapitata

Sodium benzoate - CAS: 532-32-1

a) Aquatic acute toxicity:

LC50 Fish > 100 mg/l 96 Pimephales promelas
LC50 Daphnia > 100 mg/l 96 Daphnia magna
EC50 Algae > 24.8 mg/l 72 Pseudokirdhneriella subcapitata
EC50 Bacteria > 100 mg/l 24

Fatty alcohols ethoxylated propoxylated - CAS: 68603-25-8

a) Aquatic acute toxicity:

LC50 Fish = 8.7 mg/l 96 Oncorhynchus mykiss
EC50 Daphnia = 12.3 mg/l 48 Daphnia magna

b) Aquatic chronic toxicity:

LC50 Fish = 13.3 mg/l 96 Pimephales promelas

c) Bacteria toxicity:

IC50 Bacteria 220 mg/l 16

12.2. Persistence and degradability

Sodium benzoate - CAS: 532-32-1

Biodegradability: Readily biodegradable - Test: Not applicable - Duration: Not applicable - %: Not applicable - Notes: Not applicable

Fatty alcohols ethoxylated propoxylated - CAS: 68603-25-8

Biodegradability: Readily biodegradable - Test: BIODG07 - Duration: 27 days - %: 92 - Notes: Not applicable
Biodegradability: Readily biodegradable - Test: CO2 production - Duration: 28 days - %: 64 - 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 percarbonate - CAS: 15630-89-4

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

Sodium metasilicate - CAS: 10213-79-3

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

Trisodium orthophosphate - CAS: 7601-54-9

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

Tetrasodium-ethylenediaminetetraacetate - CAS: 64-02-8

Bioaccumulation: Not bioaccumulative - Test: Not applicable Not applicable - Duration: Not applicable - Notes: 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.
H8 corrosive
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

ADR-UN Number:	3262
IATA-UN Number:	3262
IMDG-UN Number:	3262

14.2. UN proper shipping name

ADR-Shipping Name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate)
IATA-Shipping Name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate)
IMDG-Shipping Name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate)

14.3. Transport hazard class(es)

ADR-Class:	8
ADR - Hazard identification number:	80

IATA-Class:	8
IATA-Label:	8
IMDG-Class:	8

14.4. Packing group

ADR-Packing Group:	III
IATA-Packing group:	III
IMDG-Packing group:	III

14.5. Environmental hazards

ADR-Enviromental Pollutant:	No
IMDG-Marine pollutant:	No

14.6. Special precautions for user

ADR-Subsidiary risks:	-
ADR-S.P.:	274
ADR-Tunnel Restriction Code:	(E)
IATA-Passenger Aircraft:	860
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	864
IATA-S.P.:	A3 A803
IATA-ERG:	8L
IMDG-EmS:	F-A , S-B
IMDG-Subsidiary risks:	-
IMDG-Storage category:	Category A
IMDG-Storage notes:	"Separated from" acids.

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
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:

R20 Harmful by inhalation.
R22 Harmful if swallowed.
R34 Causes burns.
R36 Irritating to eyes.
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.
R8 Contact with combustible material may cause fire.

H319 Causes serious eye irritation.
H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.
H290 May be corrosive to metals.
H315 Causes skin irritation.
H332 Harmful if inhaled.

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.

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