



Safety Data Sheet dated 20/3/2012, 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: SCALEOFF
Product type: rust, scale remover, acid inhibited
- 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:
C Corrosive
R Phrases:
R34 Causes burns.
- Adverse physicochemical, human health and environmental effects:
The product is corrosive and, if brought into contact with the skin, causes burning, with the destruction of the entire thickness of skin tissue.

- 2.2. Label elements
Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:






C

- Symbols:
C Corrosive
R Phrases:
R34 Causes burns.
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:
Fosphoric acid 35%






- 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:
30% - 40% Fosphoric acid
REACH N°: 01-2119485924-24-XXXX, Index number: 015-011-00-6, CAS: 7664-38-2, EC: 231-633-2
C; R34
-  3.2/1B Skin Corr. 1B H314
-  3.3/1 Eye Dam. 1 H318
-  2.16/1 Met. Corr. 1 H290
- < 0.5% methanol
REACH N°: 01-2119433307-44-XXXX, Index number: 603-001-00-X, CAS: 67-56-1, EC: 200-659-6
F,T; R11-23/24/25-39/23/24/25

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-  2.6/2 Flam. Liq. 2 H225
-  3.8/1 STOT SE 1 H370
-  3.1/3/Oral Acute Tox. 3 H301
-  3.1/3/Dermal Acute Tox. 3 H311
-  3.1/3/Inhal Acute Tox. 3 H331

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 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)

Liquid acid phosphoric based descaler

For more information see Technical data bulletin

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contained substances

Fosphoric acid - CAS: 7664-38-2

OEL Type: ACGIH - LTE: 1 mg/m³, 0.25 ppm - STE: 3 mg/m³, 0.75 ppm - Behaviour: Binding

OEL Type: EU - LTE: 1 mg/m³ - STE: 2 mg/m³ - Behaviour: Binding

VLE 8h - VLE short: None

methanol - CAS: 67-56-1

OEL Type: ACGIH - LTE: 262.09 mg/m³, 200 ppm - STE: 327.61 mg/m³, 250 ppm - Behaviour: Binding - Notes:

Skin, IBE

OEL Type: EU - LTE: 260 mg/m³, 200 ppm - Behaviour: Binding - Notes: Skin

VLE 8h - VLE short: None

DNEL Exposure Limit Values

Fosphoric acid - CAS: 7664-38-2

Worker Professional: 2.92 03 - Consumer: 0.73 03 - Exposure: Human Inhalation Long Term, local effects

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:

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:

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: Negligible

Odour threshold: n.av. mg/m³

pH: 1 - 2

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: > 1 (air=1)

Flash point: none °C

Evaporation rate: na

Vapour pressure: 3.2 kPa

Relative density: 1.21 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

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: n.av.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

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10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

It may generate flammable gases on contact with dithiocarbamates, mercaptans and other organic sulphides, elementary metals (alkalis, alkaline earth, powder alloys, vapours), and powerful reducing agents.

It may generate toxic gases on contact with inorganic fluorides, halogenated organic substances, sulphides, nitrides, nitriles, organophosphates, and powerful oxidising agents.

It may catch fire on contact with dithiocarbamates, elementary metals (alkali, alkaline earth, powder alloys, vapours, sheets or bars), and nitrides.

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:

Fosphoric acid - CAS: 7664-38-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1250 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 2740 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 850 mg/l - Duration: 2h

methanol - CAS: 67-56-1

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: MAN = 64 g/kg

Test: LD50 - Route: Oral - Species: Rat = 5628 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 15.8 g/kg

Test: LC50 - Route: Inhalation - Species: Rat = 83.2 mg/l - Duration: 4h

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:

Fosphoric acid - CAS: 7664-38-2

Test: LC50 - Species: Fish - Duration h: 96 - mg/l: 138

methanol - CAS: 67-56-1

Test: LC50 - Species: Fish - Duration h: 96 - mg/l: 15400 *Lepomis macrochirus*

Test: EC50 - Species: Daphnia - Duration h: 48 - mg/l: 10 *Daphnia magna*

12.2. Persistence and degradability

Not applicable

Regulation (EC) No. 648/2004 on Detergents and amendments:

No

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.

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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:

11 01 05 *

H8

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

ADR-UN number: 1805

14.2 UN proper shipping name:

ADR-Shipping Name: PHOSPHORIC ACID, SOLUTION

14.3 Transport hazard class(es):

ADR-Class: 8

14.4 Packing Group:

ADR-Packing Group: III

14.5 Environmental hazards

ADR-Environmentally mark : No

14.6 Special Precautions for User

ADR-Label: 8

ADR-Classification code: C1

ADR-Tunnel Restriction Code: E

ADR: The goods must be transported by vehicles authorized to transport dangerous goods in accordance with the requirements of the current edition of ADR and applicable national regulations. The goods must be carried in original packaging and in any case, in packaging made out of suitable and resistant materials with content and with a dangerous reaction. All the personnel loading and unloading dangerous goods must be trained on the risks associated with the preparation and any procedures to be taken in case of emergency situations.

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

Non previsto

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 = 0.01 %

Volatile Organic compounds - VOCs = 0.13 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:

R11 Highly flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H290 May be corrosive to metals.

H225 Highly flammable liquid and vapour.

H370 Causes damage to organs.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.

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.

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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.