

Safety Data Sheet TABS CHLORINE

Safety Data Sheet dated 14/12/2016, version 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification

Trade name: TABS CHLORINE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use:

Detergent for hard surfaces.

Professional use (SU22) - Products for washing and cleaning (PC35)

Uses advised against:

Different uses than recommended. Do not use in combination with other products.

1.3. Details of the supplier of the safety data sheet

Manufacturer:

SUTTER INDUSTRIES s.p.a. - Società con Unico Socio

15060 Borghetto Borbera (AL) Italia

Tel. +39 0143 631.1

Competent person responsible for the safety data sheet:

regulatory.affairs@sutter.it


1.4. Emergency telephone number

+39 0143 631.1 mon-fri 9.00/17.00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture


EC regulation criteria 1272/2008 (CLP)

 Warning, Acute Tox. 4, Harmful if swallowed.

 Warning, Eye Irrit. 2, Causes serious eye irritation.

 Warning, STOT SE 3, May cause respiratory irritation.

 Warning, Aquatic Acute 1, Very toxic to aquatic life.

 Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

EUH031 Contact with acids liberates toxic gas.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

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H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P273 Avoid release to the environment.
P280 Wear eye/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P404 Store in a closed container.
P411 Store at temperatures not exceeding 50 °C.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH031 Contact with acids liberates toxic gas.
EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

Contains

troclosene sodium, dihydrate

Product contents:

chlorine-based bleaching agents > 30 %

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, the product is a mixture.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty | Name | Ident. Number | Classification |
|-------------------|--|---|---|
| >= 80% - < 90% | troclosene sodium, dihydrate (35,2 - 39,6% as Active Chlorine) | Index number: 613-030-01-7 CAS: 51580-86-0 EC: 220-767-7 REACH No.: 01-2119489371-33 |  3.3/2 Eye Irrit. 2 H319  3.8/3 STOT SE 3 H335  4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410  3.1/4/Oral Acute Tox. 4 H302 EUH031 |
| >= 7% - < 10% | adipic acid REACH No.: 01-2119457561-38 | Index number: 607-144-00-9 CAS: 124-04-9 EC: 204-673-3 |  3.3/2 Eye Irrit. 2 H319 |

SECTION 4: First aid measures

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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.

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:

Give nothing to eat or drink.

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

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

Acute effects:

Skin and eye irritation for contact

Irritation interior system if swallowed.

Any whitening effect on the skin is temporary and reversible.

Until revision date of this document, are unknown chronic effects from the mixture contact with skin, eyes, inhalation, ingestion.

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:

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

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.

Sand

5.2. Special hazards arising from the substance or mixture

The mixture does not contain ingredients classified as explosive according to EC Regulation 1272/2008 (CLP).

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.

The mixture does not contain ingredients classified as explosive according to EC Regulation 1272/2008 (CLP).

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. To converge the product in containment tanks.
- 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.
 - 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
 - Store in area dedicated to alkaly products, keep away from acids and oxygen or peracetic acid based oxidants.
 - Store away from sunlight.
 - Store in a cool and well ventilated place.
 - Do not store in open or unlabeled containers.
 - Store away from heat sources.
 - Always keep the containers tightly closed.
 - Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 - Keep away from food, drink and feed.
 - Incompatible materials:
 - Acids, oxygen-based oxidants, peracetic acid, organic substances.
 - Store in area dedicated to alkaly products, keep away from acids and oxygen based oxidants and peracetic acid.
 - Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability. see also 1.2 and 7.2.
 - Keep away from acids.
 - Instructions as regards storage premises:
 - Adequately ventilated premises.
- 7.3. Specific end use(s)
 - None in particular, see paragraph 1.2

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters

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Until the revision date of this document, no experimental data are available for the mixture. Below, listed occupational exposure limits, if available, for the components listed in paragraph 3.2.

troclosene sodium, dihydrate (35,2 - 39,6% as Active Chlorine) - CAS: 51580-86-0

MAK - TWA: 0.02 mg/m³ - STEL: 0.02 mg/m³

adipic acid - CAS: 124-04-9

ACGIH - TWA(8h): 5 mg/m³ - Notes: URT irr, ANS impair

DNEL Exposure Limit Values

Until the revision date of this document, no experimental data are available for the mixture. Below, listed the DNEL exposure limits, if available, for the components listed in paragraph 3.2.

Not applicable

PNEC Exposure Limit Values

Until the revision date of this document, no experimental data are available for the mixture. Below, listed the PNEC exposure limits, if available, for the components listed in paragraph 3.2.

Not applicable

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.(EN 166)

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton (EN 14605 in case of splashes or EN 13982 in case of dust)

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. (EN 388 - EN 374 protection factor 6, corresponding to a breakthrough time >480 minutes).

Due to great diversity of types, observe the operating instructions of the manufacturer with respect to substances listed in paragraph 3.2.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged. (eg EN 140 or EN149 type FFP3)

Thermal Hazards:

The product is not flammable or explosive - see paragraph 2.1. The product contains no explosive components.

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

Environmental exposure controls:

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

See also section 6.2.

Appropriate engineering controls:

No further technical checks suitable for your product under normal conditions.

See also section 1.2, section 7 and Exposure Scenario - Annex I of this document.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Method: | Notes: |
|------------------------|-------------|--------------|--------|
| Appearance and colour: | Pads, white | Visual | -- |
| Odour: | Technical | Olfactory | -- |
| Odour threshold: | Evident | Olfactory | -- |
| pH: | 6,5 +/- 0,5 | Instrumental | -- |

| | (sol 1%) | control | |
|---|----------------|---------|---|
| Melting point / freezing point: | Not Relevant | -- | Parameter not relevant for the type of product |
| Initial boiling point and boiling range: | Not Relevant | -- | Parameter not relevant for the type of product |
| Flash point: | Not Relevant | -- | Parameter not relevant for the type of product |
| Evaporation rate: | Not Relevant | -- | Parameter not relevant for the type of product |
| Solid/gas flammability: | Not Relevant | -- | Parameter not relevant for the type of product |
| Upper/lower flammability or explosive limits: | Not Relevant | -- | Parameter not relevant for the type of product |
| Vapour pressure: | Not Relevant | -- | Parameter not relevant for the type of product |
| Vapour density: | Not Relevant | -- | Parameter not relevant for the type of product |
| Relative density: | Not Relevant | -- | Parameter not relevant for the type of product |
| Solubility in water: | Total | -- | Internal tests |
| Solubility in oil: | None | -- | Internal tests |
| Partition coefficient (n-octanol/water): | < 1000 | -- | Value estimated based on the solubility of the mixture. |
| Auto-ignition temperature: | Not applicable | -- | Parameter not relevant for product composition. |
| Decomposition temperature: | Not Relevant | -- | Parameter not relevant for the type of product |
| Viscosity: | Not Relevant | -- | Parameter not relevant for the type of product |
| Explosive properties: | Not Relevant | -- | Parameter not relevant for product composition. |
| Oxidizing properties: | Medium | -- | Estimated value on chemical / physical properties of components |

9.2. Other information

| Properties | Value | Method: | Notes: |
|--------------------------------------|--------------|---------|--|
| Miscibility: | Not Relevant | -- | Parameter not relevant for the type of product |
| Fat Solubility: | Not Relevant | -- | Parameter not relevant for the type of product |
| Conductivity: | Not Relevant | -- | Parameter not relevant for the type of product |
| Substance Groups relevant properties | Not Relevant | -- | Parameter not relevant for the type of product |

SECTION 10: Stability and reactivity

10.1. Reactivity

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

10.2. Chemical stability

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Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

10.3. Possibility of hazardous reactions

Store in area dedicated to alkaly products, keep away from acids and oxygen or peracetic acid based oxidants.

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

See also scetion 7.2.

In normal conditions no dangerous reactions of the mixture

10.4. Conditions to avoid

Different uses than recommended. Do not use in combination with other products. See also 1.2 and 7.2

10.5. Incompatible materials

Acids, oxygen-based oxidants, peracetic acid, organic substances.

Store in area dedicated to alkaly products, keep away from acids and oxygen based oxidants and peracetic acid.

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability. see also 1.2 and 7.2.

10.6. Hazardous decomposition products

Toxic gas, chlorine.

Do not use in combination with other products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

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a) acute toxicity

The product is classified: Acute Tox. 4 H302

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

The product is classified: STOT SE 3 H335

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

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Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:
Below are reported, if available, the toxicological information of the components listed in paragraph 3.2.

troclosene sodium, dihydrate (35,2 - 39,6% as Active Chlorine) - CAS: 51580-86-0

a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 735 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 200 mg/kg

adipic acid - CAS: 124-04-9

a) acute toxicity:
Test: LD50 - Route: Inhalation Vapour - Species: Mouse = 275 mg/kg
Test: LD50 - Route: Oral - Species: Mouse = 1900 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.
Until the revision date of this document, are not available experimental data on the mixture.
Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

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The product is classified: Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410
troclosene sodium, dihydrate (35,2 - 39,6% as Active Chlorine) - CAS: 51580-86-0

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 0.22 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 0.196 mg/l

adipic acid - CAS: 124-04-9

a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Fish = 97 mg/l - Notes: P. promelas

12.2. Persistence and degradability

Until the revision date of this document, are not available experimental data on the mixture.
Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

None
Not applicable

The surfactant(s) contained in this preparation complies with the biodegradability criteria laid down in Regulation (EC) No 648/2004 on detergents. All supporting data are kept available to the competent authorities of the Member States and will be provided to those authorities if they so request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Until the revision date of this document, are not available experimental data on the mixture.
Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

Not applicable

12.4. Mobility in soil

Until the revision date of this document, are not available experimental data on the mixture.
Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

Not applicable

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

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Until the revision date of this document, unknown adverse effects and symptoms towards the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. Do not discharge into the ground or into drains.

See also section 6.

SECTION 14: Transport information



14.1. UN number

ADR-UN Number: 3077
IATA-UN Number: 3077
IMDG-UN Number: 3077

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(troclozene sodium, dihydrate (35,2 - 39,6% as Active Chlorine))
IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(troclozene sodium, dihydrate (35,2 - 39,6% as Active Chlorine))
IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(troclozene sodium, dihydrate (35,2 - 39,6% as Active Chlorine))

14.3. Transport hazard class(es)

ADR-Class: 9
ADR_label 9
ADR - Hazard identification number: 90
IATA-Class: 9
IATA-Label: 9
IMDG-Class: 9
IMDG-Label: 9

14.4. Packing group

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

14.5. Environmental hazards

ADR-Environmental Pollutant: Yes
IMDG-Marine pollutant: Marine Pollutant

14.6. Special precautions for user

ADR-Subsidiary risks: -
ADR-S.P.: 274 335 375 601
ADR-Transport category (Tunnel restriction code): E
IATA-Passenger Aircraft: 956
IATA-Subsidiary risks: -
IATA-Cargo Aircraft: 956
IATA-S.P.: A97 A158 A179 A197

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IATA-ERG: 9L
IMDG-EmS: F-A , S-F
IMDG-S.P.: 274 335 966 967 969
IMDG-Subsidiary risks: -
IMDG-Stowage and handling: Category A SW23
IMDG-Segregation: -

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
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) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 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 :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: E1

15.2. Chemical safety assessment

No, for instructions on safe mangling you see Sections 7 and 8 and the exposure scenario - Annex I of this document.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H302 Harmful if swallowed.
EUH031 Contact with acids liberates toxic gas.

| Hazard class and hazard category | Code | Description |
|----------------------------------|------------|---|
| Acute Tox. 4 | 3.1/4/Oral | Acute toxicity (oral), Category 4 |
| Eye Irrit. 2 | 3.3/2 | Eye irritation, Category 2 |
| STOT SE 3 | 3.8/3 | Specific target organ toxicity - single exposure, |

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| | | |
|-------------------|--------|--|
| | | Category 3 |
| Aquatic Acute 1 | 4.1/A1 | Acute aquatic hazard, category 1 |
| Aquatic Chronic 1 | 4.1/C1 | Chronic (long term) aquatic hazard, category 1 |

Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 5: Firefighting measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 10: Stability and reactivity
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|--|---------------------------------|
| Acute Tox. 4, H302 | Calculation method |
| Eye Irrit. 2, H319 | Calculation method |
| STOT SE 3, H335 | Calculation method |
| Aquatic Acute 1, H400 | Calculation method |
| Aquatic Chronic 1, H410 | Calculation method |

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

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.

This MSDS cancels and replaces any preceding release.

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- CAS: Chemical Abstracts Service (division of the American Chemical Society).
- CLP: Classification, Labeling, Packaging.
- DNEL: Derived No Effect Level.
- EC0/10/20/50/100: Effective concentration, for 0/10/20/50/100 percent of test population.
- EINECS: European Inventory of Existing Commercial Chemical Substances.



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| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| IATA: | International Air Transport Association. |
| IATA-DGR: | Dangerous Goods Regulation by the "International Air Transport Association" (IATA). |
| ICAO: | International Civil Aviation Organization. |
| ICAO-TI: | Technical Instructions by the "International Civil Aviation Organization" (ICAO). |
| IMDG: | International Maritime Code for Dangerous Goods. |
| INCI: | International Nomenclature of Cosmetic Ingredients. |
| KSt: | Explosion coefficient. |
| LC0/10/20/50/100: | Lethal concentration, for 0/10/20/50/100 percent of test population. |
| LD0/10/20/50/100: | Lethal dose, for 0/10/20/50/100 percent of test population. |
| NOEC: | No Observed Effect Concentration |
| NOAEL(R)/N | No Observed Adverse Effect Level(Repeated)/Concentration |
| OAEC: | |
| OECD: | Organisation for Economic Co-operation and Development |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWA: | Time-weighted average |
| WGK: | German Water Hazard Class. |

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ANNEX I
PROFESSIONAL PRODUCT – DETERGENT FOR HARD SURFACES

| | |
|---|--|
| Title of exposure scenario | |
| Detergent for general cleaning: Manual process. | |
| Use description | |
| Sector Use | SU22 – Professional use |
| Product Category | PC35 – Cleaning and washing product (including solvent based products) |
| Description of activities/process considered on exposure scenario. | |
| Dilute with water as specified on the label, if necessary. | |
| Use following the use instruction as specified on the label. | |
| Leave on. | |
| Rinse, if necessary. | |
| Frequency and duration | |
| Use phase | - 1 time a day for daily cleaning detergents - Periodical for specific detergents |
| Relevant limit values of ingredients, if available, are stated in section 8 of the SDS. | |
| Physical appearance and concentration | |
| Liquid. To dilute or ready to use. | |
| In section 2 of the SDS of product and on the label the classification of mixture is provided. | |
| Mixture classification is based on ingredients classification and on chemical/physical properties stated in section 9 of the SDS of product. | |
| Use conditions | |
| Room temperature | |
| Good general ventilation at workplace is sufficient. | |
| Protection | |
| See section 8 of the SDS of product to more information on PPE. | Training of worker to use and maintenance of PPE is supposed. |
| Don't eat or drink, don't smoke. | Avoid contact with damaged skin. |
| No open flame. | Do not use in combination with other products |
| Wash hand after use. | |
| In case of accidental release: dilute with water and dry. | |
| See section 6 of the SDS in case of accidental release | |
| Follow use instruction as specified on the label or on technical sheet. Use good occupational hygiene practices as specified in section 7 on the SDS. | |
| Environmental measures | |
| See section 6 of the SDS in case of accidental release | |
| See section 12 of the SDS for ecotoxicological information of mixture and dangerous ingredients. | |
| See section 13 of the SDS for disposal considerations. | |

Note:

SDS: Safety Data Sheet

PPE: Personal Protection Equipment