# Safety Data Sheet
# TEAK WONDER BRIGHTENER

**Safety Data Sheet dated 18/12/2019, version 5**

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

1.1. Product identifier

Mixture identification:

Trade name: TEAK WONDER BRIGHTENER

Trade code: TWBR

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

Recommended use:

Teak cleaner - FOR LEISURE CRAFTS ONLY

Uses advised against:

All uses not listed in the recomended uses

1.3. Details of the supplier of the safety data sheet

Company:

BARKA s.r.l. Strada Padana Superiore, 256/266 – 20090 Vimodrone – MI – ITALIA

Tel. (+39) 02 27408033 – Fax (+39) 02 2504072

Competent person responsible for the safety data sheet:

info@barka.it

1.4. Emergency telephone number

UK - National Poisons Information Service: 844 892 0111

## SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

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

N.A.

3.2. Mixtures

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

3% - 5% hydrochloric acid 4,99%

Index number: 017-002-01-X, CAS: 7647-01-0, EC: 231-595-7

2.16/1 Met. Corr. 1 H290


3.2/1B Skin Corr. 1B H314


3.8/3 STOT SE 3 H335

## 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 with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

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 all sources of ignition.
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, inhaltion of vapours and mists.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Do not eat or drink while working.

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)

None in particular

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

hydrochloric acid 4,99% - CAS: 7647-01-0

EU - TWA(8h): 8 mg/m3, 5 ppm - STEL: 15 mg/m3, 10 ppm
ACGIH - STEL: Ceiling 2 ppm - Notes: A4 - URT irr

DNEL Exposure Limit Values

hydrochloric acid 4,99% - CAS: 7647-01-0

Worker Professional: 15 03 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 8 03 - Exposure: Human Inhalation - Frequency: Long Term (repeated)

PNEC Exposure Limit Values

hydrochloric acid 4,99% - CAS: 7647-01-0

Target: Fresh Water - Value: 0.036 mg/l
Target: Marine water - Value: 0.036 mg/l
Target: Discontinuous use/release - Value: 0.045 mg/l
Target: Microorganisms in sewage treatments - Value: 0.036 mg/l

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

Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Method: | Notes |
|---|---|---|---|
| Appearance and colour: | Fluid at low viscosity | -- | -- |
| Odour: | Characteristic | -- | -- |
| Odour threshold: | N.A. | -- | -- |

| | | | |
|---|---|---|---|
| pH: | 2.1 | -- | -- |
| Melting point / freezing point: | N.A. | -- | -- |
| Initial boiling point and boiling range: | 100 ° C | -- | -- |
| Flash point: | N.A. | -- | -- |
| Evaporation rate: | N.A. | -- | -- |
| Solid/gas flammability: | N.A. | -- | -- |
| Upper/lower flammability or explosive limits: | N.A. | -- | -- |
| Vapour pressure: | N.A. | -- | -- |
| Vapour density: | N.A. | -- | -- |
| Relative density: | 1.02 g/ml (20°C ) | -- | -- |
| Solubility in water: | 100% | -- | -- |
| Solubility in oil: | N.A. | -- | -- |
| Partition coefficient (n-octanol/water): | N.A. | -- | -- |
| Auto-ignition temperature: | N.A. | -- | -- |
| Decomposition temperature: | N.A. | -- | -- |
| Viscosity: | N.A. | -- | -- |
| Explosive properties: | N.A. | -- | -- |
| Oxidizing properties: | N.A. | -- | -- |

9.2. Other information

| **Properties** | **Value** | **Method:** | **Notes** |
|---|---|---|---|
| Miscibility: | N.A. | -- | -- |
| Fat Solubility: | N.A. | -- | -- |
| Conductivity: | N.A. | -- | -- |
| Substance Groups relevant properties | N.A. | -- | -- |

## 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 halogenated organic substances, and elementary metals.

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 product:

TEAK WONDER BRIGHTENER

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

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
Not classified
Based on available data, the classification criteria are not met
i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:
hydrochloric acid 4,99% - CAS: 7647-01-0
a) acute toxicity:
Test: ATE - Route: Inhalation > 20000 mg/m3
Test: ATE - Route: Skin > 2000 mg/kg
Test: ATE - Route: Oral > 5000 mg/kg
Test: LC50 - Route: Inhalation Fumes - Species: Rat = 45.6 mg/l - Duration: 300s
b) skin corrosion/irritation:
Test: Skin Corrosive - Route: Skin - Species: Rabbit Yes - Notes: provoca gravi ustioni cutanee
c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit Yes - Notes: provoca gravi lesioni oculari
d) respiratory or skin sensitisation:
Test: Respiratory Tract Irritant - Route: Inhalation - Species: Mouse Yes
f) carcinogenicity:
Test: Carcinogenicity - Species: Rat Negative
g) reproductive toxicity:
Test: Genotoxicity Negative
h) STOT-single exposure:
Test: Respiratory Tract Irritant Yes

## SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
TEAK WONDER BRIGHTENER
Not classified for environmental hazards
Based on available data, the classification criteria are not met
hydrochloric acid 4,99% - CAS: 7647-01-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 3.5 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 0.45 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 0.73 mg/l - Duration h: 72
c) Bacteria toxicity:
Endpoint: EC50 - Species: DOMESTIC ACTIVE MUDD = 0.23 mg/l
12.2. Persistence and degradability
N.A.
12.3. Bioaccumulative potential

hydrochloric acid 4,99% - CAS: 7647-01-0
Bioaccumulation: Not bioaccumulative

12.4. Mobility in soil
N.A.

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
Recover if possible. In so doing, comply with the local and national regulations currently in force.

## SECTION 14: Transport information

14.1. UN number

| | |
|---|---|
| ADR-UN number: | 1789 |
| IATA-Un number: | 1789 |
| IMDG-Un number: | 1789 |

14.2. UN proper shipping name

| | |
|---|---|
| ADR-Shipping Name: | ACIDO CLORIDRICO |
| IATA-Technical name: | ACIDO CLORIDRICO |
| IMDG-Technical name: | ACIDO CLORIDRICO |

14.3. Transport hazard class(es)

| | |
|---|---|
| ADR-Class: | 8 |
| ADR-Label: | 8/80 |
| IATA-Class: | 8 |
| IATA-Label: | 8/80 |
| IMDG-Class: | 8 |

14.4. Packing group

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

14.5. Environmental hazards

| | |
|---|---|
| Marine pollutant: | No |

14.6. Special precautions for user

| | |
|---|---|
| ADR-Transport category (Tunnel restriction code): | E |
| Rail (RID): | 8 |
| IATA-Passenger Aircraft: | 852 |
| IATA-Cargo Aircraft: | 856 |
| IMDG-Technical name: | ACIDO CLORIDRICO |
| IMDG-EMS: | F-A, S-B |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
N.A.

## 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)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/699 (ATP 11 CLP)

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

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

No restriction.

Insert solvent classes regulation

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

None

VOC (2004/42/EC) : 0,1 g/l

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Full text of phrases referred to in Section 3:

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

| Hazard class and hazard category | Code | Description |
|---|---|---|
| Met. Corr. 1 | 2.16/1 | Substance or mixture corrosive to metals, Category 1 |
| Skin Corr. 1B | 3.2/1B | Skin corrosion, Category 1B |
| STOT SE 3 | 3.8/3 | Specific target organ toxicity - single exposure, Category 3 |

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
CCNL - Appendix 1
Insert further consulted bibliography

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. |
| ATE: | Acute Toxicity Estimate |
| ATEmix: | Acute toxicity Estimate (Mixtures) |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society). |
| CLP: | Classification, Labeling, Packaging. |
| DNEL: | Derived No Effect Level. |
| EINECS: | European Inventory of Existing Commercial Chemical Substances. |
| 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. |
| LC50: | Lethal concentration, for 50 percent of test population. |
| LD50: | Lethal dose, for 50 percent of test population. |
| 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. |