Safety Data Sheet
TEAK WONDER CLEANER

Safety Data Sheet dated 19/1/2016, version 2

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

1.1. Product identifier

Mixture identification:

Trade name: TEAK WONDER CLEANER

Trade code: TWCL

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)

Warning, Met. Corr. 1, May be corrosive to metals.

Warning, Skin Irrit. 2, Causes skin irritation.

Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:

Danger

Hazard statements:

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P234 Keep only in original container.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Special Provisions:

PACK1 The packing must be featured by a safety lock for children.

PACK2 The packing must have tactive indications of danger for blind people.
Contains
disodium metasilicate
Special provisions according to Annex XVII of REACH and subsequent amendments:
None
Product contents:
Non-ionic surfactants < 5 %
The product also contains:
Allergens:
Preservatives: tetrasodium ethylene diamine tetraacetate
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% 1-methoxy-2-propanol; monopropylene glycol methyl ether
REACH No.: 01-2119457435-35, Index number: 603-064-00-3, CAS: 107-98-2, EC: 203-539-1


2.6/3 Flam. Liq. 3 H226


3.8/3 STOT SE 3 H336

3% - 5% disodium metasilicate
REACH No.: 01-2119449811-37, CAS: 10213-79-3, EC: 229-912-9


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 thoroughly the body (shower or bath).
Remove contaminated clothing immediatley 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 under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
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
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 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.
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
Do not pour the product into other containers. Always use the original container.
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

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

EU - LTE(8h): 369 mg/m3, 100 ppm - STE: 553 mg/m3, 150 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH - LTE(8h): 50 ppm - STE: 100 ppm - Notes: A4 - Eye and URT irr

VL - LTE: 375 mg/m3, 100 ppm - STE: 568 mg/m3, 150 ppm - Notes: Skin; 2000/39/EC

disodium metasilicate - CAS: 10213-79-3

OEL - LTE: 3 mg/m3 - STE: 10 mg/m3 - Notes: TRGS 900

DNEL Exposure Limit Values

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Worker Professional: 533.5 03 - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 50.6 mg/kg - Consumer: 18.1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 369 03 - Consumer: 43.9 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 3.3 03 - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Target: Fresh Water - Value: 10 mg/l

Target: Marine water - Value: 1 mg/l

Target: Discontinuous use/release - Value: 100 mg/l

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: Marine water sediments - Value: 4.17 mg/kg

Target: Freshwater sediments - Value: 41.6 mg/kg

Target: Soil (agricultural) - Value: 2.47 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:

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 middle viscosity; colour as described	--	--
Odour:	Characteristic	--	--
Odour threshold:	N.A.	--	--
pH:	13	--	--
Melting point / freezing point:	N.A.	--	--

Initial boiling point and boiling range:	100	--	--
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:	1.01 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
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:
N.A.
Toxicological information of the main substances found in the mixture:
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat >= 3739 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 31.59 mg/l - Duration: 4h
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 7000 ppm - Duration: 6h
b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin Positive
c) serious eye damage/irritation:

Test: Eye Irritant - Route: VIEW Positive
f) carcinogenicity:
Test: NOAEC - Route: Inhalation - Species: Mouse = 3000 ppm
g) reproductive toxicity:
Test: NOAEL - Route: Inhalation - Species: Rat = 300 ppm
disodium metasilicate - CAS: 10213-79-3
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 1152-1349 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 2.06 g/m3
Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg
b) skin corrosion/irritation:
Test: Skin Corrosive - Route: Skin Positive
c) serious eye damage/irritation:
Test: Eye Corrosive Positive
h) STOT-single exposure:
Test: Respiratory Tract Irritant - Route: Inhalation Positive

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:
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
Adopt good working practices, so that the product is not released into the environment.
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Lueciscus idus = 4600-10000 mg/l - Duration h: 96
Endpoint: EC50 - Species: DAPHNIA MAGNA > 500 mg/l - Duration h: 48
Endpoint: LC50 - Species: Pimephales promelas = 20.8 G/L - Duration h: 96
Endpoint: IC50 - Species: DOMESTIC ACTIVE MUDD > 1000 mg/l - Duration h: 3
Endpoint: EC50 - Species: Pimephales promelas = 20800 mg/l - Duration h: 96
Endpoint: EC50 - Species: Selenastrum capricor > 1000 mg/l - Duration h: 168
disodium metasilicate - CAS: 10213-79-3
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Brachydanio rerio = 210 mg/l - Duration h: 96
Endpoint: EC50 - Species: DAPHNIA MAGNA = 1700 mg/l - Duration h: 48
e) Plant toxicity:
Endpoint: EC50 - Species: Scenedesmus subspicatus = 207 mg/l - Duration h: 72 - Notes: Biomass
Endpoint: EC50 - Species: Scenedesmus subspicatus > 345.4 mg/l - Duration h: 72 - Notes: growth rate

12.2. Persistence and degradability
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
disodium metasilicate - CAS: 10213-79-3
Biodegradability: readly biodegradabile - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.

12.3. Bioaccumulative potential

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient 3 - Duration h: N.A. - Notes: N.A.
disodium metasilicate - CAS: 10213-79-3
Bioaccumulation: Not bioaccumulative - Test: N.A. N.A. - Duration h: N.A. - Notes: N.A.

12.4. Mobility in soil
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
Mobility in soil: Mobile - Test: N.A. N.A. - Duration h: N.A. - Notes: 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. 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:	3266
IATA-Un number:	3266
IMDG-Un number:	3266

14.2. UN proper shipping name

14.3. Transport hazard class(es)

ADR-Class:	8 CORROSIVE, LIQUID, BASIC, INORGANIC, N.O.S. (DISODIUM METASILICATE)
ADR-Label:	8/80
IATA-Class:	8 CORROSIVE, LIQUID, BASIC, INORGANIC, N.O.S. (DISODIUM METASILICATE)
IATA-Label:	8/80
IMDG-Class:	8 CORROSIVE, LIQUID, BASIC, INORGANIC, N.O.S. (DISODIUM METASILICATE)

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-Tunnel Restriction Code:	E
IATA-Passenger Aircraft:	852
IATA-Cargo Aircraft:	856
IMDG-EMS:	F-A, S-B

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

14.8. LIMITED QUANTITY: 5L

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)

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
Restriction 40

Restrictions related to the substances contained:
Restriction 30

None

Insert solvent classes regulation

Class 3 5.0 %

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.
Regulation (EC) nr 648/2004 (detergents).
1999/13/EC (VOC directive)

Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II):

N.A.

VOC (2004/42/EC) : N.A. g/l

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

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.
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.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.