Material Safety Data Sheet

Completed **06-11-2024**
Revision: (date) **-**
SDS version **1.0**

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

1.1. Product Identifier

Trade Name: Trisani Wash Ops
Product- no.: -
UFI: 1JGA-7V0H-720W-SCSY

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

Recommended uses:
Cleaning agent.

Uses advised against:
This product must not be used for purposes other than those recommended without first seeking the advice of the supplier.

1.3. Details of the supplier of the safety data sheet

Company and address:
Brewolution ApS
Industrivej 4
DK-8653 Them
+45 53 60 09 50
www.brewolution.com

Contact person and E-mail:
mail@brewolution.com

The Safety data sheet is completed and validated by:
Mediator ApS, Centervej 2, DK-6000 Kolding. Consultant: RC

1.4. Emergency telephone number

Use your national or local emergency number - For “First aid measures” see section 4.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP (1272/2008):
Acute Tox. 4;H302
Skin Corr. 1B;H314
Eye Dam. 1;H318
STOT SE 3;H335

See full text of H-phrases in section 16.

2.2. Label elements

Signal word:
Danger

Harmful if swallowed. (H302)
Causes severe skin burns and eye damage. (H314)
May cause respiratory irritation. (H335)

If medical advice is needed, have product container or label at hand. (P101)
Keep out of reach of children. (P102)
Wear protective gloves/protective clothing/eyeprotection/face protection. (P280)
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER/doctor. (P303 + P361 + P353 + P310)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. (P305 + P351 + P338 + P310)
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. (P301 + P330 + P331 + P310)
Dispose of contents/container in accordance with local regulation. (P501)

2.3. Other hazards
-

Additional labelling:
-

Additional warnings
-

SECTION 3: Composition/information on ingredients

3.1./3.2. Substances/Mixtures

Substance	EU-Index no. / REACH-Reg. no.	CAS-no.	EINECS-no.	CLP-classification	Wt/Wt %	Note
Disodium carbonate, compound with hydrogen peroxide (2:3)	- / -	15630-89-4	239-707-6	Ox. Sol. 2;H272, Acute Tox. 4;H302, Eye Dam. 1;H318	25 - 40	1
Disodium metasilicate	- / -	6834-92-0	229-912-9	Skin Corr. 1B;H314, STOT SE 3;H335	25 - 40	-
Sodium dodecylbenzenesulphonate	- / -	25155-30-0	246-680-4	Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318	10 - 15	-
Citric acid	- / -	77-92-9	201-069-1	Eye Irrit. 2;H319, STOT SE 3;H335	1 - 3	-

1) Specific concentration limits.

See full text of H-phrases in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Seek fresh air.
Keep victim under observation.
Seek medical advice in case of discomfort.

Ingestion:
Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.
Do not induce vomiting.
Seek medical advice immediately.

Skin contact:
Immediately remove contaminated clothing.
Wash the skin thoroughly with water and continue washing for a long time.
Seek medical advice immediately.

Eye contact:
Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice

Additional information:
When obtaining medical advice, show the safety data sheet or label.

4.2. Most important symptoms and effects, both acute and delayed
Harmful if swallowed.
Tissue damaging effects: This product contains substances which are corrosive. If vapour or aerosols are in haled, it can result in damage to lungs, irritation and burns in the respiratory organs as well as coughing. Corrosive substances cause irreversible damage to eyes and acid burns to skin.

May cause respiratory irritation.

4.3. Indication of any immediate medical attention and special treatment needed
Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Extinguish with powder, foam, carbon dioxide or water mist.
Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture
Avoid inhalation of vapour and fumes – seek fresh air.
Hazardous fumes are formed in fire conditions.
Exposure to decomposition products may cause a health hazard.

5.3. Advice for firefighters
Extinguishing water which has been in contact with the product may be corrosive.
If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
See section 8 for type of protective equipment.
Avoid breathing and contact with skin and eyes.

6.2. Environmental precautions
Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up
Do not sweep – use vacuum cleaner to collect spillage.
Caution! Causes burns.

6.4. Reference to other sections
See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
See section 8 for information about precautions for use and personal protective equipment.
Use the product under well-ventilated conditions.
Running water and eye wash equipment must be available.
A safety shower should be available.

7.2. Conditions for safe storage, including any incompatibilities
The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc.
Keep in tightly closed original packaging.
Store in a cool, dry place.
Avoid direct sunlight.

7.3. Specific end use(s)
See application section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Indicative occupational exposure limit value (IOELV)
-

DNEL/PNEC-values:
DNEL Disodium carbonate, compound with hydrogen peroxide (2:3)

	Workers	Consumers
Inhalation - Chronic Local	1,25 mg/m³	0,625 mg/m³
Inhalation - Acute Local	1,25 mg/m³	0,625 mg/m³
Dermal - Chronic Local	12,8 mg/cm²	6,4 mg/cm²
Dermal - Acute Local	12,8 mg/cm²	6,4 mg/cm²

DNEL Disodium metasilicate

	Workers	Consumers
Inhalation - Chronic Systemic	6,22 mg/m³	1,55 mg/m³
Dermal - Chronic Systemic	1,49 mg/kg bw/day	0,74 mg/kg bw/day
Oral - Chronic Systemic	-	0,74 mg/kg bw/day

DNEL Sodium dodecylbenzenesulphonate

	Workers	Consumers
Inhalation - Chronic Systemic	52 mg/m³	26 mg/m³
Inhalation - Acute Systemic	52 mg/m³	26 mg/m³
Inhalation - Chronic Local	52 mg/m³	26 mg/m³
Inhalation - Acute Local	52 mg/m³	26 mg/m³
Dermal - Chronic Systemic	57,2 mg/kg bw/day	28,6 mg/kg bw/day
Dermal - Acute Systemic	80 mg/kg bw/day	40 mg/kg bw/day
Dermal - Chronic Local	1,57 mg/cm²	0,787 mg/cm²
Dermal - Acute Local	1,57 mg/cm²	0,787 mg/cm²
Oral - Chronic Systemic	-	13 mg/kg bw/day
Oral - Acute Systemic	-	13 mg/kg bw/day

PNEC Disodium carbonate, compound with hydrogen peroxide (2:3)

Fresh water	0,013 mg/L
Intermittent releases (Fresh water)	0,014 mg/L
Marine water	0,013 mg/L
Soil	0,002 mg/kg soil dw

PNEC Disodium metasilicate

Fresh water	7,5 mg/L
Intermittent releases (Fresh water)	7,5 mg/L
Marine water	1 mg/L

PNEC Sodium dodecylbenzenesulphonate

Fresh water	0,693 mg/L
Intermittent releases (Fresh water)	0,654 mg/L
Marine water	1 mg/L
Soil	25 mg/kg soil dw

PNEC Citric acid

Fresh water	0,44 mg/L
Marine water	0,044 mg/L
Soil	33,1 mg/kg soil dw

8.2. Exposure controls
There are no exposure scenarios for this product.

Appropriate engineering controls:
Wear the personal protective equipment specified below.
Wash hands before breaks, before using restroom facilities, and at the end of work.
Do not eat, drink or smoke when using this product.

Personal protective equipment:

Respiratory protection:
In case of insufficient ventilation, wear respiratory protective equipment with P2 filter.
Respiratory protective equipment shall comply with one of the following standards: EN 136/140/145.

Hand protection:
Wear protective gloves made of nitrile rubber (> 0,11 mm). Protective gloves conforming to EN 374.
Penetration time: > 240 min.
Change gloves immediately if contaminated, and wash hands with soap and water.

Eye/face protection:
Wear safety goggles/face protection.
Eye protection conforming to EN 166.

Skin protection:
Special work clothing should be used.

Environmental exposure controls:
Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Powder
Colour:	White
Odour:	Odourless
Melting point/ Freezing Point (°C):	-
Boiling point or initial boiling point and boiling range (°C):	-
Flammability:	-
Lower and upper explosion limit (vol-%):	-
Flash point (°C):	-
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
pH:	11 - 12 (C=1 %)
Kinematic viscosity (mm2/s):	-
Solubility:	Miscible with water
Partition coefficient n-octanol/water (log value)	-
Vapour pressure:	-
Density and/or relative density:	1,025 mg/cm3
Relative vapour density:	-
Particle characteristics:	-

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Avoid contact with strong acids.

10.6. Hazardous decomposition products

No special precautions regarding contact with other materials at the recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:

Harmful if swallowed.

Substance	exposure	Species	Test	Result
Disodium carbonate, compound with hydrogen peroxide (2:3)	Oral	Rat	LD50	1034 mg/kg bw
Disodium carbonate, compound with hydrogen peroxide (2:3)	Inhalation	Rat	LC50/ 4 Hours	> 170 mg/m3
Disodium carbonate, compound with hydrogen peroxide (2:3)	Dermal	Rabbit	LD50	> 2000 mg/kg bw
Disodium metasilicate	Oral	Rat	LD50	770 - 820 mg/kg bw
Disodium metasilicate	Inhalation	Rat	LC50/ 4 Hours	> 2,06 mg/L air (analytical)
Disodium metasilicate	Dermal	Rat	LD50	> 5000 mg/kg bw
Sodium dodecylbenzenesulphonate	Inhalation	Rat	LC50/ 4 Hours	310 mg/m³ air
Citric acid	Oral	Mouse	LD50	5400 mg/kg bw
Citric acid	Dermal	Rabbit	LD50	> 2000 mg/kg bw

Skin corrosion/irritation:
Has a corrosive effect and causes burning pain, reddening, blisters and burns.
May cause burns to mouth, gullet and stomach. Pains in mouth, throat and stomach. Difficulty in swallowing, indisposition and bloody vomit. Brown spots and burns may appear in and around the mouth.

Serious eye damage/irritation:
May cause severe burns, pain, tearing and cramp of the eyelids. Risk of serious damage to eyes and loss of vision.

Respiratory or skin sensitisation:
Based on the existing data, the classification is not met.

Germ cell mutagenicity:
Based on the existing data, the classification is not met.

Carcinogenicity:
Based on the existing data, the classification is not met.

Reproductive toxicity:
Based on the existing data, the classification is not met.

STOT-single exposure:
Inhalation of dust may cause irritation to the upper airways.

STOT-repeated exposure:
Based on the existing data, the classification is not met.

Aspiration hazard:
Based on the existing data, the classification is not met.

11.2. Information on other hazards
Test data are not available.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
Disodium carbonate, compound with hydrogen peroxide (2:3)	96 Hours	Fish	LC50	70,7 mg/L
Disodium carbonate, compound with hydrogen peroxide (2:3)	48 Hours	Daphnia	EC50	4,9 mg/L
Disodium carbonate, compound with hydrogen peroxide (2:3)	72 Hours	Algae	EC50	1,38 mg/L
Disodium metasilicate	96 Hours	Fish	LC50	210 mg/L
Disodium metasilicate	48 Hours	Daphnia	EC50	1700 mg/L
Disodium metasilicate	72 Hours	Algae	EC50	207 mg/L
Sodium dodecylbenzenesulphonate	96 Hours	Fish	LC50	3,2 - 5,6 mg/L
Sodium dodecylbenzenesulphonate	48 Hours	Daphnia	EC50	6,3 mg/L
Citric acid	48 Hours	Fish	LC50	440 mg/L
Citric acid	24 Hours	Daphnia	EC50	1535 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Sodium dodecylbenzenesulphonate	Yes	OECD Guideline 301 E	11 Days > 75%
Citric acid	Yes	OECD Guideline 301 B	28 Days 97%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow
Sodium dodecylbenzenesulphonate	No	1,96
Citric acid	No	-1,55

12.4. Mobility in soil
Test data are not available.

12.5. Results of PBT and vPvB assessment
The product does not meet the criteria for PBT or vPvB.

12.6. Endocrine disrupting properties
Test data are not available.

12.7. Other adverse effects
May affect acidity in the aquatic environment, potentially causing harmful effects to aquatic organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
The product is covered by the regulations on dangerous waste.
Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC-Code	Description
20 01 29	Detergents containing hazardous substances

Specific labelling:
-

Contaminated packaging:
Empty packaging and residues must be disposed of through the municipal waste collection service for hazardous waste.

SECTION 14: Transport information

The product is covered by the rules for transport of dangerous goods.

14.1 -14.4.
ADR

14.1. UN number or ID number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
1759	CORROSIVE SOLID, N.O.S. (Sodium metasilicate)	8	II

IMDG/IATA

14.1. UN number or ID number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
1759	CORROSIVE SOLID, N.O.S. (Sodium metasilicate)	8	II

14.5. Environmental hazards
-

14.6. Special precautions for user
-

14.7. Maritime transport in bulk according to IMO instruments
Not relevant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Sources:
Commission Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, EU 2017/164 and EU 2019/1831 (the first, second, third, fourth and fifth IOELV Directives).

Additional labelling:
-

Declaration in accordance to the EU regulation no. 648/2004:
15% or over but less than 30%:
Anionic surfactants

5% or over but less than 15%:
Oxygen-based bleaching agents

Restrictions for application:
Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product. Young people above 15 years are exempted this rule, if the product is a part of an education/training.

Demands for specific education:
-

15.2. Chemical safety assessment
None.

SECTION 16: Other information

According to EU regulation 1907/2006 (REACH)

Other information:
Sources:
EC regulation 1907/2006 (REACH), with amendments.
EC Regulation 1272/2008 (CLP), with amendments.
Directive 2008/98/EC
ECHA - The European Chemicals Agency

Full text of H-phrases as mentioned in section 2+3:

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Classification according to Regulation (EC) Nr. 1272/2008:

Acute Tox. 4;H302	Calculation method
Skin Corr. 1B;H314	Calculation method
Eye Dam. 1;H318	Calculation method
STOT SE 3;H335	Calculation method

Abbreviations and acronyms used in the safety data sheet:
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals. Regulation (EC) No 1907/2006.
CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.
CAS-Number.: Chemical Abstracts Service number.
EC-Number.: EINECS and ELINCS Number (see also EINECS and ELINCS).
DNEL: Derived No Effect Level.
PNEC(s): Predicted No Effect Concentration(s).
STOT: Specific Target Organ Toxicity.
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
LC50: Lethal Concentration to 50 % of a test population.
EC50: The effective concentration of substance that causes 50% of the maximum response.
PBT: Persistent, Bioaccumulative and Toxic.
vPvB: Very Persistent and Very Bioaccumulative.
NOEC: The highest tested concentration at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group.
NOAEL: The highest tested dose or exposure level at which there are no statistically significant increases in the frequency or severity of adverse effects between the exposed population and an appropriate control group; some effects may be produced at this level, but they are not considered adverse or precursors of adverse effects.

Other:
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

Minor changes have been made in following sections:
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This material safety data sheet replaces version:
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