

CLEANING AND CARE

FOX2



Document: Cleaning and care

Modification journal

Revision:	Date:	Modification	Initials:
0	2011-06-15	Basic document, first edition FOX2	SO
1	2013-02-25	Added CTMC and milk cleaning key system to manual	SO
2	2014-09-03	Corrected the CTMC cleaning steps	RZ
3	2015-02-25	New machines added, safety data sheets added	MST
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Basic cleaning instructions

The proper cleaning of the machine is essential to ensure safe and reliable operation.

Note:

- Towels or sponges must be wrung out thoroughly to ensure they are only damp. Wet towels over control surfaces can cause malfunctions!
- Steam wands - if available - must be cleaned with a damp towel and a small amount of steam after every use.
- Pitchers of steamed liquid should always be removed immediately after desired temperature is reached. Do not leave the steam wand in the hot liquid when not dispensing steam.

The following cleaning principals always have to be observed:

- The automatic cleaning cycle with the supplied cleaning agents has to be performed daily, as described in the operating instructions.
- Thermoplan cleaning agents are the only authorised cleaning agents to be used for this purpose.
- The grounds drawer has to be emptied when the display prompts to do so. Rinse the drawer with warm water. At the end of daily operations, it must be hand washed with mild soapy water.
- Do not beat the grounds drawer on a hard surface to remove the coffee grounds.
- The bean hoppers must be removed daily, the beans emptied, and wiped clean with a clean dry towel, hand washed with mild soapy water then air-dried. Exception: The bean hoppers of NSF-certified machines have to be wiped with a damp towel and dried with a dry towel.
- Once the hopper is removed, take the opportunity to remove / vacuum any grounds or beans that may have collected around the mechanical module (grinders/mills).
- Remove the drip tray and clean with mild soapy water.
- Clean the outside surface of the machine with a soft towel or non-scratching sponge soaked in soapy water (make sure the towel / sponge is not dripping wet!). Pay special attention to all milk outlet areas.

Cleaning preparation

Description work steps: What to do on which machine?

For all machines (BW3-CT / CTM / CTS / CTMS / B / CBT / CBTM / CTMC)

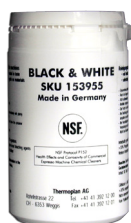
For machines with milk system (BW3-CTM / CTMS / CBTM / CTMC)

For machines with steam module (BW3-CTS / CTMS)

For machines with choco module (BW3-CTMC)

Preparation: Cleaning solutions

For all machines (BW3-CT / CTM / CTS / CTMS / B / CBT / CBTM / CTMC)



Black&White cleaning tablets

Cleaning tablets to clean the coffee system.

Order No.

105.371

105.365

Description

Cleaning tablets (1 tin, qty. 90)

Cleaning tablets (Box containing 36 tins)

For machines with milk system (BW3-CTM / CTMS / CBTM / CTMC)



ThermoBlue cleaning agent

(For liquid milk cleaning system without cleaning key)

Order No.

106.801

105.347

106.802

Description

ThermoBlue 1 liter

ThermoBlue 2.5 liters

ThermoBlue 5 liters



Thermoplan milk cleaning tablets "Thermo Milk Tabs"

(Only for milk cleaning key system)

Order No.

120.528

120.900

Description

Tub Thermo Milk Tabs (62 tablets)

Box Thermo Milk Tabs (12 tubs)

Security for cleaning

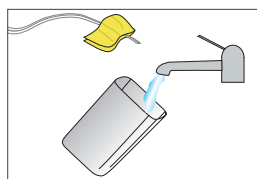
Injury hazard!

Always wear protective gloves and goggles for the daily cleaning work.



Automatic cleaning




For machines with milk system (BW3-CTM / CTMS / CBTM / CTMC)

**Empty milk container**

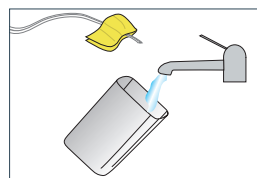
- Before starting the cleaning process empty the milk container.
- Rinse it with fresh water and put it back into the refrigerator.

For all machines (BW3-CT / CTM / CTS / CTMS / B / CBT / CBTM / CTMC)

**Start of the automatic cleaning process**

- Press and hold the cleaning button  on the display.
- Start cleaning: press cleaning button  again.
- Cancel cleaning: press cancel button .
- Now follow the display instructions carefully to successfully do the cleaning (The automatic cleaning process takes about 20 minutes).

For machines with milk system (BW3-CTM / CTMS / CBTM / CTMC)

**Clean milk container and suction tube**

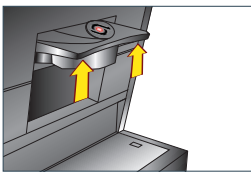
- After cleaning is finished, empty the milk container.
- Rinse it and clean it thoroughly with a wet cloth.
- Also clean the suction tube with a wet cloth.
- Be careful to not let any cleaning agent residues remain.

Manual cleaning

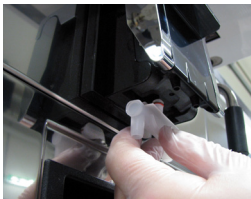
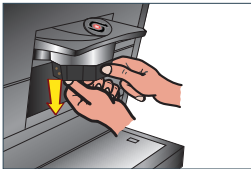
For all machines (BW3-CT / CTM / CTS / CTMS / B / CBT / CBTM / CTMC)

1) General

- Switch off the machine. Empty and clean the bean hoppers, pull out the remaining beans in the grinders with a vacuum cleaner. Remount the bean hoppers.
- Empty and clean the grounds drawer.
- Clean the drip tray.

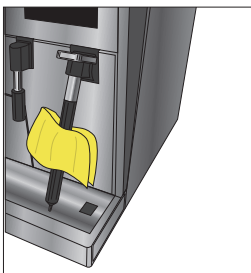
**2a) Cleaning of coffee / milk outlet non-POD edition**

- Pull the outlet head to the top position and unscrew the central screw.
- Pull down the distribution block and clean it with a brush.
- Remount the block with the central screw.

**2b) Cleaning of coffee / milk outlet POD edition**

- Remove the coffee / milk outlet and clean it thoroughly with warm water and a brush.
- After cleaning reinsert the outlet.

For machines with steam module (BW3-CTS / CTMS)

**Cleaning of the steam pipe**

- Remove the plastic protection of the steam pipe.
- Clean the protection and also the steel part of the steam pipe with a wet cloth and dry it afterwards with a dry cloth.
- Now remount the plastic protection.

⚠ CAUTION

Careful: The steam pipe is hot!
Allow it to cool down before you touch the steam pipe.
Wear protection gloves to prevent burn injuries.



For machines with milk system (BW3-CTM / CTMS / CBTM / CTMC)

Clean the refrigerator

Remove the milk container and clean the refrigerator with a wet cloth.
To defrost the refrigerator switch it off and leave the door open over night.

Important:

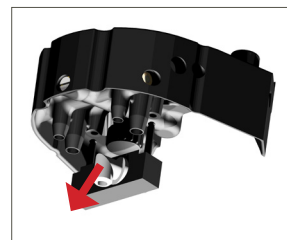
For longer downtimes (e.g. weekend, holidays) the refrigerator must be switched off and the door must be left open.
This is important to prevent odor.

Manual cleaning CTMC

For machines with chocolate module (BW3-CTMC)

Daily: Clean chocolate spout

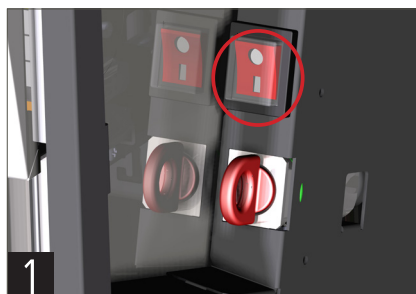
Pull the outlet head to the top position and remove the little chocolate outlet clip from the spout. Clean thoroughly with a small brush so that there are no chocolate remains left.

**Weekly cleaning of the chocolate module****⚠ WARNING****Electric shock hazard!**

Before working shut down the machine completely and remove from power supply!

⚠ WARNING**Injury hazard!**

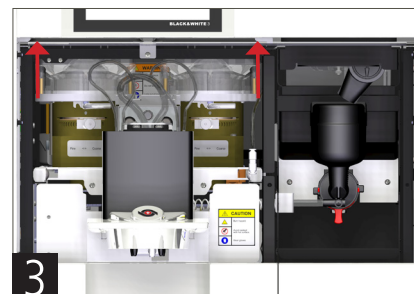
Never reach into chocolate module with hands! They could get seriously injured!



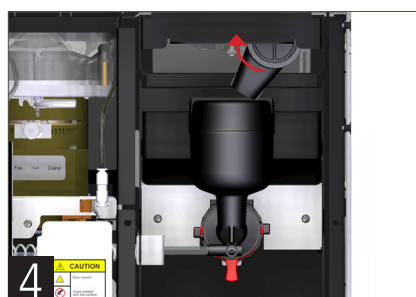
1 Switch off the machine and disconnect it from the power.



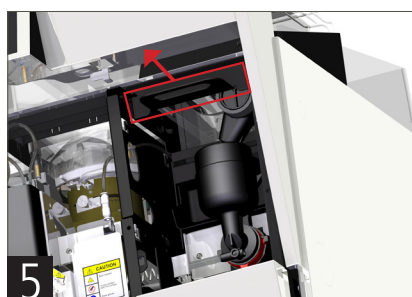
2 Open the machine front with the key.



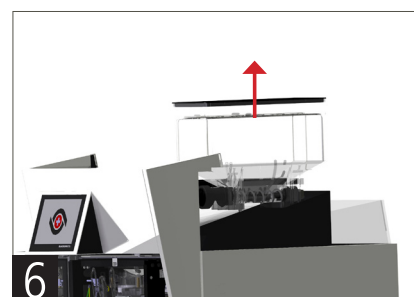
3 Push up the front to expose the chocolate module.



4 Turn the switch, so the arrow points up and the chocolate opening is closed.

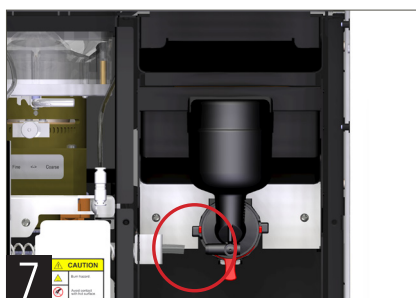


5 Pull out the lever below the chocolate hopper to unlock it.

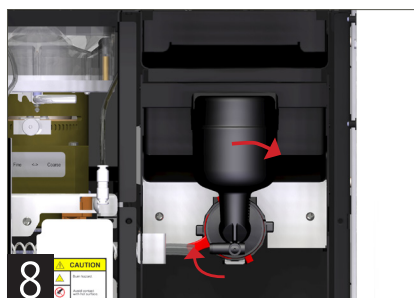


6 Lift the chocolate hopper up and remove it.

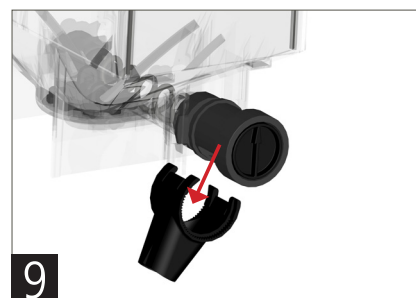
Manual cleaning CTMC



Pull off the connection tube to the left.



Turn the bayonet lock clockwise to unlock the mixing bowl and pull it towards you.



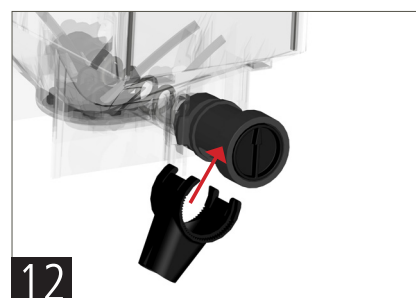
Pull off the chute from the chocolate hopper to the bottom left.



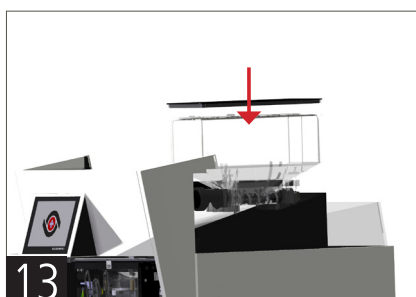
Clean the chocolate hopper, mixing bowl and chute with a wet cloth and dry well.



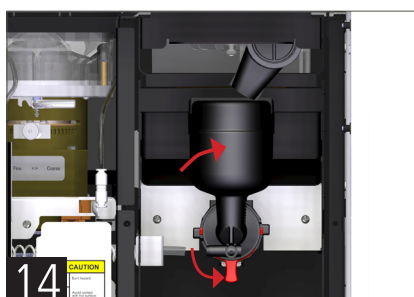
Check for chocolate remains within the machine.



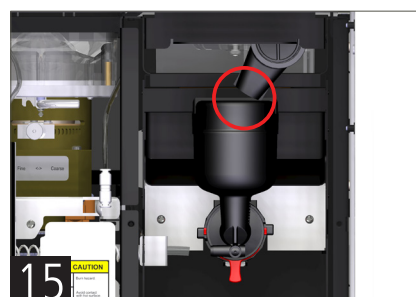
Remount the chute on the chocolate hopper.



Remount the chocolate hopper and pull back the lever below to lock it.



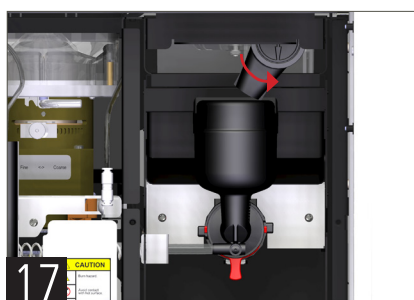
Reinsert the mixing bowl and turn the bayonet lock anti-clockwise to lock it.



Adjust the chute so it points into the mixing bowl.



Reattach the connection tube to the chocolate outlet.



Turn the switch with the arrow back, so the arrow points back down and the chocolate opening is open.



Close the machine. The cleaning of chocolate module was successful.

Manual cleaning CTMC USA / CAN

Cleaning of the chocolate module CTMC USA / CAN

⚠ WARNING**Electric shock hazard!**

Before working on the machine turn it off at the main switch!

⚠ WARNING**Chocolate hopper: risk of injury!**

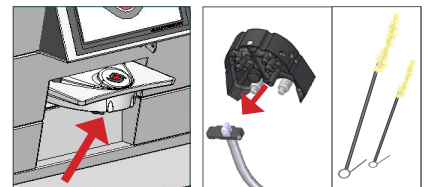
Never reach into chocolate hopper with the hands! They could get seriously injured.

⚠ CAUTION**Risk of scalding from hot water!**

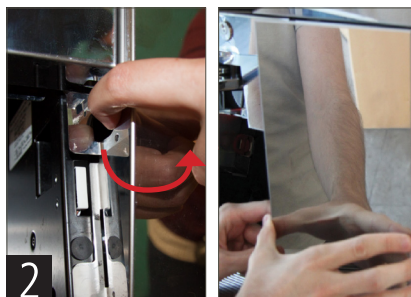
Follow these instructions step by step in order to avoid hot water burns!

Daily: Clean chocolate spout

Pull the outlet head to the top position and remove the little chocolate outlet clip from the spout. Clean thoroughly with a small brush so that there are no chocolate remains. Clean the tube with the large brush until it is free of any chocolate remains.

**Cleaning of the chocolate mixer (daily):**

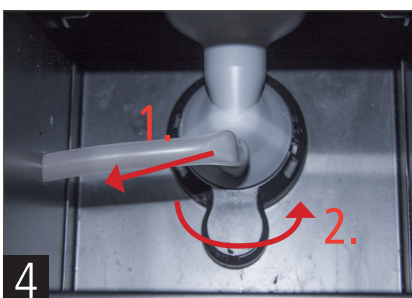
Remove the grounds drawer.



Pull off the cover of the chocolate module (on the right side of the machine).



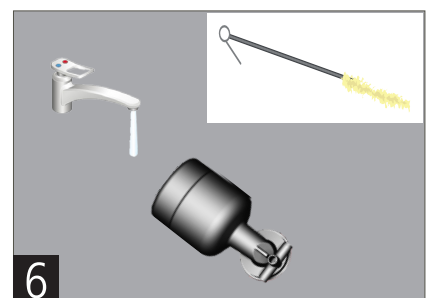
Close the powder outlet of the chocolate hopper by turning it to the position shown above.



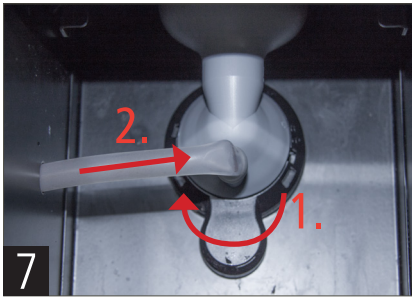
Remove the tube attached to the chocolate mixer. Unlock the mixer by turning it to the right and pulling it out.



Clean the inside of the housing thoroughly with a wet cloth and dry well.



Rinse the mixing bowl with warm water and dry well. Clean the tube and opening with a brush (included in the scope of delivery).

Cleaning of the chocolate hopper (daily):

1. Reinsert the mixing bowl and close the bayonet lock.
2. Reattach the tube to the mixing bowl. Put the cover back on and reinsert the grounds drawer.



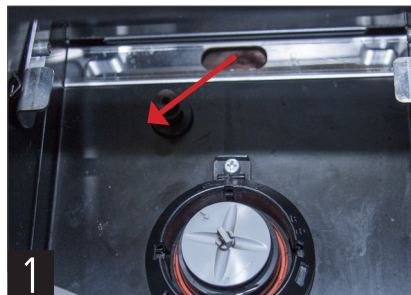
Unhook the chocolate hopper inside the chocolate module by pulling down the lever and lift out the chocolate hopper.



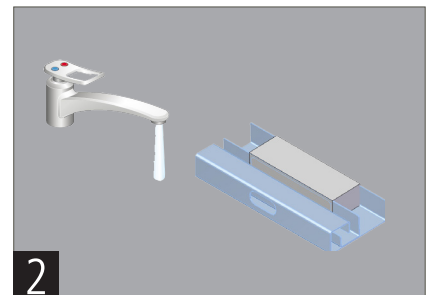
Use warm water to clean the chocolate hopper. Dry it thoroughly afterwards! Reinstall the chocolate hopper, put the cover of the chocolate module back on and reinsert the grounds drawer.

Cleaning of the chocolate filter (weekly):

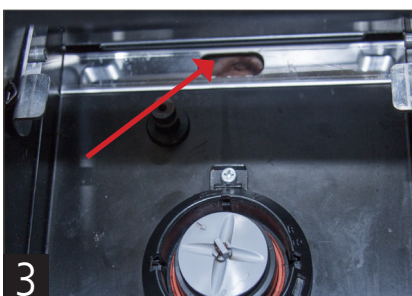
Also pull out the powder outlet and rinse it with warm water. Dry it thoroughly and put it back in.



Remove the chocolate mixer as shown before and pull out the filter at the back.



Put the filter in a container with warm water and let it soak for 15 minutes for the chocolate remains to dissolve. Remove it and let it dry thoroughly.



Reinsert the filter into the slot and reassemble the chocolate module.

NOTICE

The machine can only be operated if the grounds drawer is correctly inserted and the chocolate module cover is closed.

Safety data sheet

according to 1907/2006/EC, Article 31

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Revision: 23.09.2014

Version number 1

*** SECTION 1: Identification of the substance/mixture and of the company/undertaking****· 1.1 Product identifier:****· Trade name:** Black & White cleaning tablets**· Article number:** EP1000021ThCH**· 1.2 Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· Application of the substance / the preparation: Cleaning material/ Detergent**· 1.3 Details of the supplier of the safety data sheet:****· Manufacturer/Supplier:**

Schulz & Sohn GmbH
Chemie-Erzeugnisse
Hoherweg 327
D-40231 Duesseldorf
info@schulzchemie.com

Distributet by:
Thermoplan AG
Thermoplan-Platz 1
CH-6353 Weggis
thermoplan@thermoplan.ch

· Further information obtainable from: Product safety department**· 1.4 Emergency telephone number:**

Toxin emergency call (24 hours):

Phone: +49 (0)30 19240

Advice in English and German.

*** SECTION 2: Hazards identification****· 2.1 Classification of the substance or mixture:****· Classification according to Regulation (EC) No 1272/2008:**

Eye Dam. 1 H318 Causes serious eye damage.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

Xn; Harmful

R22: Harmful if swallowed.

Xi; Irritant

R41: Risk of serious damage to eyes.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· 2.2 Label elements:**· Labelling according to Regulation (EC) No 1272/2008:**

The product is classified and labelled according to the CLP regulation.

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Hazard pictograms

GHS05

Signal word Danger**Hazard-determining components of labelling:**sodium percarbonate
tartaric acid**Hazard statements**

H318 Causes serious eye damage.

Precautionary statements

P280 Wear protective clothing / eye 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.

P313 Get medical advice/attention.

2.3 Other hazards:**Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2 Reg.nr.: 2119485498-19	sodium carbonate Xi R36 Eye Irrit. 2, H319	15 - <30%
CAS: 15630-89-4 EINECS: 239-707-6 Reg.nr.: 2119457268-30	sodium percarbonate Xn R22; Xi R41; O R8 Ox. Sol. 2, H272; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332	15 - <30%
CAS: 133-37-9 EINECS: 205-105-7	tartaric acid Xi R41 Eye Dam. 1, H318	15 - <30%
Regulation (EC) No 648/2004 on detergents / Labelling for contents:		
oxygen-based bleaching agents, phosphates		15 - 30%

Additional information: For the wording of the listed risk phrases refer to section 16.*** SECTION 4: First aid measures****4.1 Description of first aid measures:****General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:** Call for a doctor immediately.

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- **4.2 Most important symptoms and effects, both acute and delayed:**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

*** SECTION 5: Firefighting measures**

- **5.1 Extinguishing media:**
- **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters:**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities:**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** 13
- **7.3 Specific end use(s):** No further relevant information available.

*** SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters:**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.

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· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Tightly sealed goggles!

* **SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties:****· General Information:****· Appearance:**

Form:	Solid
Colour:	White
Odour:	Characteristic
Odour threshold:	Not determined.

· pH-value (10 g/l) at 20 °C: 10,2

· Change in condition:

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not determined.

· Ignition temperature:

Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure: Not applicable.

· Density:

Relative density:	Not determined.
Vapour density:	Not applicable.
Evaporation rate:	Not applicable.

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· Solubility in / Miscibility with:	
water:	Soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0,0 %
VOC (EC):	0,00 %
Solids content:	100,0 %
· 9.2 Other information:	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity:**
- **10.2 Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

* **SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects:**
- **Acute toxicity:**

· LD/LC50 values relevant for classification:		
15630-89-4 sodium percarbonate		
Oral	LD50	1034 mg/kg (rat)
Dermal	LD50	2001 mg/kg (rabbit)
Inhalative	LC50/4 h	2,275 mg/L (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitisation:** No sensitising effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

SECTION 12: Ecological information

- **12.1 Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **12.5 Results of PBT and vPvB assessment:**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects:** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods:**

· **Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	-

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

No further relevant information available.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases:**

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R41 Risk of serious damage to eyes.
- R8 Contact with combustible material may cause fire.

- **Department issuing MSDS:** Product safety department

- **Contact:** Mr. Saubier

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Ox. Sol. 2: Oxidising Solids, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

- *** Data compared to the previous version altered.**

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*** SECTION 1: Identification of the substance/mixture and of the company/undertaking****· 1.1 Product identifier:****· Trade name:** Thermo Milk Tabs**· Article number:** EP1000056ThCH**· 1.2 Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· Application of the substance / the preparation: Cleaning material/ Detergent**· 1.3 Details of the supplier of the safety data sheet:****· Manufacturer/Supplier:**

Schulz & Sohn GmbH
Chemie-Erzeugnisse
Hoherweg 327
D-40231 Duesseldorf
info@schulzchemie.com

Distributet by:
Thermoplan AG
Thermoplan-Platz 1
CH-6353 Weggis
thermoplan@thermoplan.ch

· Further information obtainable from: Product safety department**· 1.4 Emergency telephone number:**

Toxin emergency call (24 hours):

Phone: +44 (0) 845 4647

*** SECTION 2: Hazards identification****· 2.1 Classification of the substance or mixture:****· Classification according to Regulation (EC) No 1272/2008:**

Eye Dam. 1 H318 Causes serious eye damage.

Skin Irrit. 2 H315 Causes skin irritation.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.**· Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· 2.2 Label elements:**· Labelling according to Regulation (EC) No 1272/2008:**

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms

GHS05

· Signal word Danger**· Hazard-determining components of labelling:**

sodium lauryl sulphate

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disodium metasilicate

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements





P280 Wear protective clothing / eye protection.

P262 Do not get in eyes, on skin, or on clothing.

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

P302+P352 IF ON SKIN: Wash with plenty of water.

2.3 Other hazards:**Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.*** SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 6834-92-0	disodium metasilicate	1 - <5%
EINECS: 229-912-9	 C R34;  Xi R37	
Index number: 014-010-00-8	 Met. Corr. 1, H290; Skin Corr. 1B, H314;  STOT SE 3, H335	
Reg.nr.: 2119449811-37		

Additional information: For the wording of the listed risk phrases refer to section 16.*** SECTION 4: First aid measures****4.1 Description of first aid measures:****General information:** Personal protection for the First Aider.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water.**After swallowing:**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

*** SECTION 5: Firefighting measures****5.1 Extinguishing media:****Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.**5.3 Advice for firefighters:****Protective equipment:** No special measures required.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:** Avoid formation of dust.**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
- **6.4 Reference to other sections:**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

* **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling:** Keep receptacles tightly sealed.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities:**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** None.
 - **Storage class:** 13
 - **7.3 Specific end use(s):** No further relevant information available.

* **SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters:**
- **Ingredients with limit values that require monitoring at the workplace:**
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves:**
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.

* **SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties:**
- **General Information:**
- **Appearance:**
 - Form:** Tablets
 - Colour:** White
 - Odour:** Odourless

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· Odour threshold:	Not determined.
· pH-value (100 g/l) at 20 °C:	11,4
· Change in condition:	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density:	
Relative density:	Not determined.
Vapour density:	Not applicable.
Evaporation rate:	Not applicable.
· Solubility in / Miscibility with:	
water:	Soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0,0 %
VOC (EC):	0,00 %
Solids content:	95,3 %
· 9.2 Other information:	No further relevant information available.

* **SECTION 10: Stability and reactivity**

- **10.1 Reactivity:** Not determined
- **10.2 Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

* **SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects:**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritating to skin

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- **on the eye:** Irritating effect.
- **Sensitisation:** No sensitising effects known.

SECTION 12: Ecological information

- **12.1 Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:**
The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects:** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods:**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

* **SECTION 14: Transport information**

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	-

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**
No further relevant information available.
- **15.2 Chemical safety assessment::** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases:

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

R34 Causes burns.

R37 Irritating to respiratory system.

- **Department issuing MSDS:** Product safety department

- **Contact:** Mr. Saurbier

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

Met. Corr.1: Corrosive to metals, Hazard Category 1

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

- *** Data compared to the previous version altered.**

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