



# Thermoplan Milk System Cleaning Tablets Safety Data Sheet

# Alkaline Formula Thermoplan Article Number **135.283**

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 6/25/2018 Revision date: 5/21/2021 Version: 2.1

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

#### 1.1. **Product identifier**

Product form Product name

1.2.

: Mixture

: Milk System Cleaning Tablets

Thermoplan Article

- : 135.283

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

#### Label Identification Elements:

ALKALINE FORMULA





1.2.1.Relevant identified usesMain use categoryUse of the substance/mixture	: Industrial use : Cleaner
<b>1.2.2.</b> Uses advised against No additional information available	
1.3. Details of the supplier of the safety	/ data sheet
Manufacturer Urnex Brands, LLC 700 Executive Blvd. 10523 Elmsford, NY - USA T 1-914-963-2042 F 1-914-963-2145 info@urnex.com	Distributor
1.4. Emergency telephone number	
Emergency number	: International (Infotrac): +1 (352) 323-3500 US (Infotrac): 800-535-5053
<b>SECTION 2: Hazards identification</b>	
SECTION 2: Hazards identification	
2.1. Classification of the substance or r	mixture
2.1. Classification of the substance or r Classification according to Regulation (EC)	
2.1. Classification of the substance or r Classification according to Regulation (EC) Skin Irrit. 2	No. 1272/2008 [CLP]
2.1. Classification of the substance or r Classification according to Regulation (EC) Skin Irrit. 2	No. 1272/2008 [CLP] H315 H319
2.1. Classification of the substance or r Classification according to Regulation (EC) Skin Irrit. 2 Eye Irrit. 2	No. 1272/2008 [CLP] H315 H319 see section 16
2.1. Classification of the substance or in Classification according to Regulation (EC) in Skin Irrit. 2 Eye Irrit. 2 Full text of hazard classes and H-statements : su Adverse physicochemical, human health and	No. 1272/2008 [CLP] H315 H319 see section 16
2.1. Classification of the substance or in Classification according to Regulation (EC) in Skin Irrit. 2 Eye Irrit. 2 Full text of hazard classes and H-statements : su Adverse physicochemical, human health and No additional information available	No. 1272/2008 [CLP] H315 H319 see section 16 d environmental effects

: Warning

Signal word (CLP) Hazard statements (CLP)

: H315 - Causes skin irritation. H319 - Causes serious eye irritation.

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Precautionary statements (CLP)

- : P264 Wash hands thoroughly after handling. P280 Wear protective gloves, eye protection. P337+P313: If eye irritation persists: Get medical advice/attention.

**Other hazards** 2.3.

No additional information available

### SECTION 3: Composition/information on ingredients

#### Substances 3.1.

#### Not applicable

#### 3.2. **Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Disodium carbonate	(CAS-No.) 497-19-8 (EC-No.) 207-838-8 (EC Index-No.) 011-005-00-2	10 - 30	Eye Irrit. 2, H319
Phosphonic acid, (1-hydroxyethylidene)bis-, tetrasodium salt	(CAS-No.) 3794-83-0 (EC-No.) 223-267-7	5 - 10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Sodium lauryl sulphate	(CAS-No.) 68955-19-1 (EC-No.) 273-257-1	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Sodium metasilicate	(CAS-No.) 6834-92-0 (EC-No.) 229-912-9 (EC Index-No.) 014-010-00-8	< 3	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 STOT SE 3, H335
Alcohols, C9-11, ethoxylated	(CAS-No.) 68439-46-3 (EC-No.) 614-482-0	< 3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Sodium lauryl sulphate	(CAS-No.) 68955-19-1 (EC-No.) 273-257-1	( 10 = <c 2<="" <="" td=""><td>0) Eye Irrit. 2, H319</td></c>	0) Eye Irrit. 2, H319

#### Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if preser and easy to do. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
4.3. Indication of any immediate medica	I attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.	
Unsuitable extinguishing media	: None known.	
5.2. Special hazards arising from the sub	stance or mixture	
Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon.	
5.3. Advice for firefighters		
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respin protection (SCBA).	ratory
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SECT	ION 6: Accidental release mea	asures
6.1.	Personal precautions, protective e	quipment and emergency procedures
Gene	ral measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
6.1.1.	For non-emergency personnel	
No add	itional information available	
6.1.2.	For emergency responders	
No add	itional information available	
6.2.	Environmental precautions	
Preven	t entry to sewers and public waters.	
6.3.	Methods and material for containm	nent and cleaning up
For co	ontainment	: Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Metho	ods for cleaning up	: Vacuum or sweep material and place in a disposal container. Avoid dust formation.
6.4.	Reference to other sections	
For furt	her information refer to section 8: "Expo	sure controls/personal protection".
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Preca	utions for safe handling	: Avoid contact with skin and eyes. Avoid generating and breathing dust. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Good housekeeping is important to prevent accumulation of dust.
Hygie	ne measures	: Wash contaminated clothing before reuse. Always wash hands after handling the product.
7.2.	Conditions for safe storage, includ	ling any incompatibilities
Stora	ge conditions	: Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well- ventilated place.
7.3	Specific end use(s)	

Not available.

	SECTION 8: Exposure controls/p	personal protection
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#### 8.1. **Control parameters**

No additional information available

#### 8.2. **Exposure controls**

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

#### Eye protection:

Safety eyewear complying with an approved standard such as the European Standard EN166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

#### Skin and body protection:

None necessary under normal conditions of use.

### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Environmental exposure controls:

Avoid release to the environment.

### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and c	hemical properties	
Physical state	: Solid	
Appearance	: Granules	
Colour	: White / yellowish	
Odour	: None	
Odour threshold	: No data available	
рН	: 10.45 (10% solution)	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not flammable	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: 1.095	
Solubility	: No data available	
Partition coefficient n-octanol/water	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	

#### 9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
10.1. Reactivity			
No dangerous reactions known under normal conditions of use.			
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal conditions of use.			
10.4. Conditions to avoid			
Heat.			
10.5. Incompatible materials			
None known.			
10.6. Hazardous decomposition products			
May include, and are not limited to: oxides of carbon.			

SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity (oral)	: Not classified.		
Acute toxicity (dermal)	: Not classified.		
Acute toxicity (inhalation)	: Not classified.		
Disodium carbonate (497-19-8)			
LD50 oral rat	4090 mg/kg		
Phosphonic acid, (1-hydroxyethylidene)bis-, tetrasodium salt (3794-83-0)			
LD50 oral rat	990 mg/kg		
Sodium lauryl sulphate (68955-19-1)			
LD50 oral rat	> 2000 mg/kg		

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Sodium lauryl sulphate (68955-19-1)	
LD50 dermal rabbit	> 10000 mg/kg
Sodium metasilicate (6834-92-0)	
LD50 oral rat	1153 mg/kg
Alcohols, C9-11, ethoxylated (68439-	-46-3)
LD50 oral rat	1400 mg/kg
Skin corrosion/irritation	: Causes skin irritation. pH: 10.45 (10% solution)
Serious eye damage/irritation	: Causes serious eye irritation. pH: 10.45 (10% solution)
Additional information	: On basis of test data.
Respiratory or skin sensitisation Additional information	<ul><li>Not classified.</li><li>Based on available data, the classification criteria are not met.</li></ul>
Germ cell mutagenicity Additional information	<ul><li>Not classified.</li><li>Based on available data, the classification criteria are not met.</li></ul>
Carcinogenicity Additional information	<ul><li>Not classified.</li><li>Based on available data, the classification criteria are not met.</li></ul>
Reproductive toxicity Additional information	<ul><li>Not classified.</li><li>Based on available data, the classification criteria are not met.</li></ul>
STOT-single exposure Additional information	<ul><li>Not classified.</li><li>Based on available data, the classification criteria are not met.</li></ul>
STOT-repeated exposure Additional information	<ul><li>Not classified.</li><li>Based on available data, the classification criteria are not met.</li></ul>
Aspiration hazard Additional information	<ul><li>Not classified.</li><li>Based on available data, the classification criteria are not met.</li></ul>
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.
ECTION 12: Ecological information	ation
2.1. Toxicity Ecology - general	: May cause long-term adverse effects in the aquatic environment.

Acute aquatic toxicity	e aquatic toxicity : Not classified.	
Chronic aquatic toxicity	: Not classified.	
Disodium carbonate (497-19-8)		
LC50 fish 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
LC50 fish 2	310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
Sodium lauryl sulphate (68955-19-1)		
EC50 96h algae (1)	42 mg/l (Species: Desmodesmus subspicatus)	
Sodium metasilicate (6834-92-0)		
LC50 fish 1	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])	
LC50 fish 2	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)	

### 12.2. Persistence and degradability

Mil	ilk System Cleaning Tablets			
Per	sistence and degradability	Not established.		
12.3. Bioaccumulative potential				
Milk System Cleaning Tablets				

	Milk System Cleaning Tablets			
Bioaccumulative potential		Not established.		
	Disodium carbonate (497-19-8)			
	BCF fish 1	(no bioaccumulation)		
12.4. Mobility in soil				
No. and the set of the second second second set of the				

No additional information available

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12.5. Results of PBT and vPvB assessme	
No additional information available	ent
12.6. Other adverse effects	
Additional information	: No other effects known
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
SECTION 14: Transport information	
In accordance with ADR	
14.1. UN number UN-No. (ADR)	: Not regulated
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not regulated
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: No
Other information	: No supplementary information available.
14.6. Special precautions for user	
Special transport precautions	: Do not handle until all safety precautions have been read and understood.
- Overland transport	
Martine and a test	
Not regulated	
Not regulated 14.7. Transport in bulk according to Anne	ex II of Marpol and the IBC Code
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14.7. Transport in bulk according to Anne	
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14.7.       Transport in bulk according to Anne         Not applicable       SECTION 15: Regulatory information         15.1.       Safety, health and environmental regulations         15.1.1.       EU-Regulations         Detergent Directive (EC) No. 648/2004:         Product contains 5-15% phosphonate, <5% non-	n gulations/legislation specific for the substance or mixture -ionic surfactant, <5% anionic surfactant
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### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (or	Acute toxicity (oral), Category 4		
Aquatic Chronic 3	Hazardous to the	Hazardous to the aquatic environment — Chronic Hazard, Category 3		
Eye Dam. 1	Serious eye dam	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye dam	age/eye irritation, Category 2		
Skin Corr. 1B	Skin corrosion/irr	Skin corrosion/irritation, Category 1B		
Skin Irrit. 2	Skin corrosion/irr	Skin corrosion/irritation, Category 2		
STOT SE 3	Specific target or	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H302	Harmful if swallo	Harmful if swallowed.		
H314	Causes severe s	Causes severe skin burns and eye damage.		
H315	Causes skin irrita	Causes skin irritation.		
H318	Causes serious e	Causes serious eye damage.		
H319	Causes serious e	Causes serious eye irritation.		
H335	May cause respi	May cause respiratory irritation.		
H412	Harmful to aquat	Harmful to aquatic life with long lasting effects.		
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:				
Skin Irrit. 2	H315	Calculation method		
Eye Irrit. 2	H319	On basis of test data		

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