

Thermoplan Descaler Safety Data Sheet

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Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758. Issue date: 7/7/2021 Revision date: 7/7/2021 Version: 1.0

SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Thermoplan Descaler
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Industrial use
Use of the substance/mixture	: For research purpose only
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety	data sheet
Manufacturer	Distributor
Urnex Brands, LLC	Thermoplan AG
700 Executive Blvd.	Thermoplan-Platz 1 6353 Weggis
Elmsford, NY 10523 - USA T +1-914-963-2042 - F +1-914-963-2145	Tel: +41.41.392.12.00
info@urnex.com	
1.4. Emergency telephone number	
Emergency number	: International (Infotrac): +1 (352) 323-3500
SECTION 2: Hazards identification	
2.1. Classification of the substance or m	ixture
Classification according to Regulation (EC) N	lo. 1272/2008 [CLP]
Eye Irrit. 2	1319
Full text of hazard classes, H- and EUH-stateme	nts: see section 16
Adverse physicochemical, human health and	environmental effects
No additional information available	environmental enects
2.2. Label elements	
Labelling according to Regulation (EC) No. 12	272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07
Signal word (CLP)	: Warning
•	5
Hazard statements (CLP)	: H319 - Causes serious eye irritation.
Precautionary statements (CLP)	: P280 - Wear eye protection / face protection. P337+P313 - If eye irritation persists: Get medical advice/attention.
2.3. Other hazards	
No additional information available.	
SECTION 3: Composition/informatio	n on ingredients
3.1. Substances	
Not applicable	

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Organic Acid Salt	(CAS-No.) Trade Secret	20 – 30	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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Full text of H- and EUH-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 skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything b mouth to an unconscious person. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause 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 medical	attention and special treatment needed
Symptoms may be delayed. In case of accident of	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	istance or mixture	
Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon. Oxides of nitrogen.	
5.3. Advice for firefighters		
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).	
SECTION 6: Accidental release measures		

6.1.	Personal precautions, protective equip	oment and emergency procedures
Genera	al measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
<mark>6.1.1.</mark> No addi	For non-emergency personnel tional information available	
6.1.2. No addi	For emergency responders tional infomration available	
6.2.	Environmental precautions	
Prevent	entry to sewers and public waters.	
6.3.	Methods and material for containment	and cleaning up
For co	ntainment	: Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
Metho	ds for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Provide ventilation.
6.4.	Reference to other sections	
For furth	ner information refer to section 8: "Exposure	e controls/personal protection".
SECT	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	utions for safe handling	: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.
Hygier	ne measures	: Wash contaminated clothing before reuse. Always wash hands after handling the product.
72	Conditions for safe storage including	any incompatibilities

7.2.	Conditions for safe storage, including	any incompatibilities	
Storage	e conditions	: Keep out of the reach of children. Store tightly closed in a dry, cool and well-ventilated place	e.
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7.3. Specific end use(s)

For research purpose only

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Hand protection:

Wear suitable gloves

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:

Wear suitable protective clothing

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.

Thermal hazard protection:

Use personal protective equipment as required.

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and o	chemical properties	
Physical state	: Liquid	
Appearance	: Red Liquid	
Colour	: Red	
Odour	: None	
Odour threshold	: No data available	
pН	: 1.16 (Acid Reserve = 5.3 g)	
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	: No data available	
Density	: 1.038 – 1.105 g/ml (Bulk)	
Solubility	: Soluble in water	
Partition coefficient n-octanol/water	: No data available	
Partition coefficient n-octanol/water (Log Kow)	: Not applicable	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
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Explos	ive limits : No data available
9.2.	Other information
No add	tional information available.
SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No dan	gerous reactions known under normal conditions of use.
10.2.	Chemical stability
Stable ι	Inder normal conditions.
10.3.	Possibility of hazardous reactions
No dan	gerous reactions known under normal conditions of use.
10.4.	Conditions to avoid
Heat. Ir	compatible materials.
10.5.	Incompatible materials
Strong	oxidizing agents. Strong bases.
10.6.	Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Oxides of nitrogen.

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.
ATE CLP (oral)	5175.19 mg/kg
Organic Acid Salt (Trade Secret)	
LD50 oral rat	1350 mg/kg
LD50 dermal rabbit	3698
Skin corrosion/irritation :	Not classified.
	pH: 1.16 (Acid Reserve = 5.3 g)
Additional information	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Causes serious eye irritation.
	pH: 1.16 (Acid Reserve = 5.3 g)
Respiratory or skin sensitisation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Germ cell mutagenicity :	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Carcinogenicity :	Not classified.
Additional information :	Based on available data, the classification criteria are not met.
Reproductive toxicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
STOT-single exposure	Not classified.
Additional information :	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Aspiration hazard	Not classified.
Additional information	Based on available data, the classification criteria are not met.
SECTION 12: Ecological information	

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12.1. Toxicity

Ecology - general	: May cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short- term (acute)	: Not classified.
Hazardous to the aquatic environment, long- term (chronic)	: Not classified.

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12.2. Persistence and degradability	
Thermoplan Descaler	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Thermoplan Descaler	
Partition coefficient n-octanol/water (Log Kow)	Not applicable
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessmen	4
No additional information available	L
12.6. Other adverse effects	
Additional information	: No other effects known
SECTION 13: Disposal considerations	S
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance
	with local, regional, national and/or international regulation. The generation of waste should be
	avoided or minimized wherever possible. Recycle empty containers where allowed.
SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA / ADN / RI	D
14.1. UN number	
UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not regulated
IMDG	
Transport hazard class(es) (IMDG)	: Not regulated
	. Net regulated
Transport hazard class(es) (IATA)	: Not regulated
ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
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14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: 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	
Not regulated	
- Transport by sea	
Not regulated	
- Air transport	
Not regulated	
- Inland waterway transport	
Not regulated	
- Rail transport	
Not regulated	
14.7. Transport in bulk according to Annex	II of Marpol and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regu	ulations/legislation specific for the substance or mixture
Relevant EU provisions transposed through retained	ed EU law
15.1.1. EU-Regulations	
Contains no REACH substances with Annex XVII n	restrictions
Contains no REACH candidate substance	

Contains no REACH candidate substance.

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no REACH Annex XIV substances

15.1.2. National regulations

Not determined

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes: None.

Abbreviations and acronyms:

°C – Degrees Celsius
°F – Degrees Fahrenheit
ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.
ACGIH – American Conference of Governmental Industrial Hygienists
ATE – Acute Toxicity Estimate
BCF – Bioconcentration Factor
BEI – Biological Exposure Index
CAS – Chemical Abstracts Service
CLP – Regulation (EC) No 1272/2008 on the Classification, Labeling and Packaging of substances and mixtures.
CMR – Carcinogen, Mutagen, Reproductive toxin
cP – centipoise (unit of dynamic viscosity)
cSt – centistokes (unit of kinematic viscosity)
DNEL – Derived No-effect Level
DMEL – Derived Minimal Effect Level
EC50 – Half maximal effective concentration

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EC-No. – European Community number EU – European Union GHS – Globally Harmonized System of Classification and Labelling of Chemicals			
GHS – Globally Harmonized System of Classification and Labelling of Chemicals			
	h – Hours		
IATA – International Air Transport Association			
IC50 – Inhibition concentration			
IDLH – Immediately Dangerous to Life or Health			
IMDG – International Maritime Dangerous Goods			
IOELV – Indicative Occupational Exposure Limit Value			
KIFS – Swedish Chemicals Agency's (Keml's) Code of Statutes			
kPa – kilopascal			
Koc – Adsorption Coefficient			
Kow – Octanol-Water Partition Coefficient			
LC50 – Median Lethal Concentration			
LD50 – Median Lethal Dose			
LOAEL – Lowest Observed Adverse Effect level			
mg/l – Milligram per liter			
mg/kg – Milligram per kilogram			
mg/m3 – Milliaram per cubic meter			
Min – Minutes			
NIOSH – National Institute for Occupational Safety and Health			
NOEC – No Observed Effect Concentration			
NO(A)EL – No Observed (Adverse) Effect Level			
N.O.S. – Not Otherwise Specified			
	OEL – Occupational Exposure Limit PBT - Persistent, Bioaccumulative and Toxic PCN – Poison Centre Notification PNEC – Predicted No Effect Concentration		
ppm – Parts per million			
	PVC – Polyvinyl chloride REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
RID – European Agreement concerning the International Carriage of Dangerous Goods by Rail			
SDS – Safety Data Sheet			
STEL – Short Term Exposure Limit			
STOT – Specific Target Organ Toxicity			
SVHC – Substance of Very High Concern (CMR, vPvB, PBT)			
TDI – Tolerable Daily Intake			
TLV – Threshold Limit Value			
TWA – Time Weighted Average			
UFI – Unique Formulation Identifier			
UN – United Nations			
vPvB - Very Persistent and Very Bioaccumulative			
WEL – Workplace Exposure Limit			
WGK – Wassergefahrdungklasse – German water quality classification			
Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND COUNCIL of 16 December 2008 on classification, labelling and packaging of s mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and December 2008.	ubstances ar		
Regulation (EC) No 1907/2006.			
Other information : None.			
Full text of H- and EUH-statements:			

Acute toxicity (o	ral), Category 4			
Serious eye damage/eye irritation, Category 2				
H302 Harmful if swallowed.				
Causes serious eye irritation.				
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:				
H319	Expert judgement			
	Serious eye dar Harmful if swall Causes serious lerive the classific			

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