acc. to OSHA HCS

1 Identification

· Product identifier:

· Trade name: ThermoBlue

· Article number: EP1000032ThCH

· Application of the substance / the preparation: Cleaning material/ Detergent

· Details of the supplier of the safety data sheet:

• Manufacturer/Supplier: Schulz & Sohn GmbH Chemie-Erzeugnisse Hoeherweg 327 D-40231 Duesseldorf info@schulzchemie.com

Distributet by: Thermoplan AG Thermoplan-Platz 1 CH-6353 Weggis Tel.: +41 41 3921200 thermoplan@thermoplan.ch

- · Information department: Product safety department
- · Emergency telephone number:

POISON CONTROL

National Capital Poison Center

Tel.: 1-800-222-1222

2 Hazard(s) identification

· Classification of the substance or mixture:

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements:
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



GHS07

- · Signal word: Warning
- · Hazard statements:

Causes skin irritation.

Causes serious eye irritation.

Precautionary statements:

Keep out of reach of children.

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

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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- · Classification system:
- · NFPA ratings (scale 0 4):



· HMIS-ratings (scale 0 - 4):



- Other hazards:
- Results of PBT and vPvB assessment:
- · **PBT**: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
		5-<15%
	♦ Met. Corr.1, H290	
	potassium metasilicate	1-<5%
	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318	

4 First-aid measures

- 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 rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

- · Information for doctor:
- Most important symptoms and effects, both acute and delayed:

No further relevant information available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-fighting measures

- Extinguishing media:
- · Suitable extinguishing agents:

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

- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters:
- · Protective equipment: No special measures required.

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6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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.

7 Handling and storage

- · Handling:
- · Precautions for safe handling: No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · 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: Keep receptacle tightly sealed.
- · Storage class: 12
- · Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters:
- · Components 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 that were valid during the creation were used as basis.
- · Exposure controls:
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves!

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

Recommendation:

uvex u-chem 3000 (DIN EN 374) Material: Nitrile rubber, NBR Thickness of the material: 0.5 mm

Value for the permeation: > 480 min (Level 6)

Recommendation:

uvex u-fit strong N2000 (DIN EN 374)

Material: Nitrile rubber, NBR

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Thickness of the material: 0,2 mm

Value for the permeation: > 480 min (Level 6)

Penetration time of glove material:

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· Eye protection:



Tightly sealed goggles!

9 Physical and chemical properties

Information on basic physical and chemical properties:				
General Information:	nemical properties:			
· Appearance:				
Form:	Fluid			
Color:	Blue			
· Odor:	Characteristic			
· Odor threshold:	Not determined.			
pH-value at 20 °C (68 °F):	12.7 (DIN 38404-5)			
Change in condition:				
Melting point/Melting range:	Undetermined.			
Boiling point/Boiling range:	> 100 °C (>212 °F)			
· Flash point:	Not applicable.			
Flammability (solid, gaseous):	Not applicable.			
· Decomposition temperature:	Not determined.			
· Auto igniting:	Product is not selfigniting.			
· Danger of explosion:	Product does not present an explosion hazard.			
· Explosion limits:				
Lower:	Not determined.			
Upper:	Not determined.			
· Vapor pressure:	Not determined.			
Density at 20 °C (68 °F):	1.11 g/cm³ (9.263 lbs/gal)			
· Relative density:	Not determined.			
· Vapour density:	Not determined.			
· Evaporation rate:	Not determined.			
· Solubility in / Miscibility with:				
Water:	Fully miscible.			
· Partition coefficient (n-octanol/water	r): Not determined.			
· Viscosity:				
Dynamic:	Not determined.			
Kinematic:	Not determined.			
· Solvent content:				
Organic solvents:	0.0 %			
Water:	78.6 %			
Solids content:	6.8 %			
Other information:	No further relevant information available.			
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10 Stability and reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability:
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects:
- · Acute toxicity:
- · Primary irritant effect:
- on the skin:

No irritant effect.

Caustic effect on skin and mucous membranes.

on the eye:

OECD Guideline 435: No caustic effect.

Strong caustic effect.

No irritating effect.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories:

· IARC (International Agency for Research on Cancer):

None of the ingredients is listed.

NTP (National Toxicology Program):

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity:
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability:

The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.

- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · **Mobility in soil:** No further relevant information available.
- · Additional ecological information:
- General notes:

Water hazard class 1 (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.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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- · Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

13 Disposal considerations

- · Waste treatment methods:
- · Recommendation:

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

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

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

15 Regulatory information

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

· Section 355 (extremely hazardous substances):			
None of the in	None of the ingredients is listed.		
· Section 313	· Section 313 (Specific toxic chemical listings):		
None of the in	None of the ingredients is listed.		
· TSCA (Toxic Substances Control Act):			
164462-16-2	methylglycinediacetic acid, Na-salt		
1312-76-1	potassium metasilicate		
28348-53-0	sodium cumenesulphonate		
2372-82-9	dodecyl dipropylene triamine		
13708-85-5	disodium phosphonate		
6419-19-8	nitrilotrimethylenetris(phosphonic acid)		
100-51-6	benzyl alcohol		
69011-36-5	alkyl polyethylene glycol ether		
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10294-56-1	phosphonic acid
	Benzyl cinnamate
	Benzyl benzoate
	benzyl salicylate
7732-18-5	water

· Proposition 65:

· Chemicals known to cause cancer:

None of the ingredients is listed

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories:

EPA (Environmental Protection Agency):

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients is listed.

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

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.

H318 Causes serious eye damage.

· Department issuing SDS: Product safety department

· Contact: Mr. Saurbier

· Date of preparation / last revision 02/06/2019 / 2

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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Met. Corr.1: Corrosive to metals – Category 1

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Data compared to the previous version altered.

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