

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**SECTION 1: Identification of the substance/mixture and of the company/  
undertaking****1.1 Product identifier**Trade name: **hth™ BORKLER GEL**

Article number: 10614 hth

UFI: UVP3-D01N-700H-78XR

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

Sector of Use SU21 Consumer uses: Private households / general public / consumers

Product category PC0 Other

**Application of the substance / the mixture**

Deliming agent

Surface cleaning

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

INNOVATIVE WATER CARE EUROPE

BP 219 - 37402 Amboise Cedex - FRANCE

phone : +33 (0)2 47 23 43 00

fax : +33 (0)2 47 23 12 21

eu.sds@sigurawater.com

INNOVATIVE WATER CARE Ltd

The Studios - Colorado Way - Castleford - West Yorkshire -

WF10 4TA - UNITED KINGDOM

Telephone: +44 (0) 1924 792909

eu.sds@sigurawater.com

**1.4 Emergency telephone number:**

Europe &gt;&gt;&gt; NCEC - Tel. +44 (0)1235 239 670

Africa &amp; Middle East &gt;&gt;&gt; NCEC - Tel. +44 (0)1235 239 671

N.AMERICA &gt;&gt;&gt; ACEAN (Arch Chemicals Emergency Action Network) - Tel. +1 423

(Contd. on page 2)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**Trade name: hth<sup>™</sup> BORKLER GEL**

(Contd. of page 1)

780 2970}  
CALL A LOCAL NATIONAL POISON CONTROL UNIT  
FOR UK CONTACT NCEC Tel 01865 407 333

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture** **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.  
Eye Dam. 1 H318 Causes serious eye damage.

### **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:**

phosphoric acid  
hydrogen chloride  
2-Propylheptanol, ethoxylated

#### **Hazard statements**

H314 Causes severe skin burns and eye damage.

#### **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P260 Do not breathe mist/vapours/spray.  
P280 Wear protective gloves / eye protection / face protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

(Contd. on page 3)

**Safety data sheet**  
 according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**Trade name: hth™ BORKLER GEL**

(Contd. of page 2)

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P405 Store locked up.  
 P501 Dispose of contents/container to special treatment scheme according to official regulations.

**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: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60-XXXX	Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit	10-<25%
CAS: 7664-38-2 EINECS: 231-633-2 Index number: 015-011-00-6 Reg.nr.: 01-2119485924-24-XXXX	phosphoric acid ⚠ Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	10-<25%
CAS: 7647-01-0 EINECS: 231-595-7 Index number: 017-002-00-2	hydrogen chloride ⚠ Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ STOT SE 3, H335	2.5-<10%
CAS: 160875-66-1 Polymer	2-Propylheptanol, ethoxylated ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	2.5-<10%

**Regulation (EC) No 648/2004 on detergents / Labelling for contents**

CONTAINS AMONG OTHER COMPONENTS AT LESS THAN 5%:

- NON-IONIC SURFACE AGENTS,

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**Trade name: hth<sup>™</sup> BORKLER GEL**

**Additional information** For the wording of the listed hazard phrases refer to section 16. (Contd. of page 3)

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

**General information** Immediately remove any clothing soiled by the product.

#### **After inhalation**

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

#### **After skin contact**

Rinse with warm water.

Immediately wash with water and soap and rinse thoroughly.

#### **After eye contact**

Rinse opened eye for several minutes (15) under running water. Then consult a doctor.

**After swallowing** Drink plenty of water and provide fresh air. Call for a doctor immediately.

### **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**

Water spray

Use fire extinguishing methods suitable to surrounding conditions.

### **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Hydrogen chloride (HCl)

During heating or in case of fire poisonous gases are produced.

### **5.3 Advice for firefighters**

**Protective equipment:** Mount respiratory protective device.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

### **6.2 Environmental precautions:**

Keep contaminated washing water and dispose of appropriately.

(Contd. on page 5)

**Safety data sheet**  
 according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**Trade name: hth™ BORKLER GEL**

(Contd. of page 4)

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**6.3 Methods and material for containment and cleaning up:**

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**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**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**Information about fire - and explosion protection:** Keep respiratory protective device available.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage**

**Requirements to be met by storerooms and receptacles:**

Store only in unopened original receptacles.

**Information about storage in one common storage facility:** Store away from oxidising agents.

**Further information about storage conditions:**

Protect from frost.

Keep receptacle tightly sealed.

**7.3 Specific end use(s)** No further relevant information available.

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

**8.1 Control parameters**

**Additional information about design of technical facilities:** No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:**

**CAS: 34590-94-8 Dipropylene glycol monomethyl ether**

WEL	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm
Sk	

(Contd. on page 6)

**Safety data sheet**  
 according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**Trade name: hth<sup>™</sup> BORKLER GEL**

(Contd. of page 5)

**CAS: 7647-01-0 hydrogen chloride**

WEL	Short-term value: 8 mg/m <sup>3</sup> , 5 ppm Long-term value: 2 mg/m <sup>3</sup> , 1 ppm (gas and aerosol mists)
-----	--

**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.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes.  
 Avoid contact with the eyes and skin.

**Respiratory protection:**

Combination filter ABE1

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:**

Neoprene gloves



Protective gloves.

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**

Neoprene 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.

(Contd. on page 7)

**Safety data sheet**  
 according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**Trade name: hth<sup>™</sup> BORKLER GEL**

(Contd. of page 6)

**Eye protection:**



Tightly sealed goggles.

**Body protection:** Protective work clothing.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

**Appearance:**

Form:	Pasty
Colour:	Whitish
Odour:	Acidic
Odour threshold:	Not determined.
pH-value at 20 °C:	<0

**Change in condition**

Melting point/freezing point:	undetermined
Initial boiling point and boiling range:	171 °C

Flash point: Not applicable

Flammability (solid, gaseous) Not applicable.

Ignition temperature: 240 °C

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

**Explosion limits:**

Lower:	1.1 Vol %
Upper:	10.6 Vol %

Vapour pressure at 20 °C: 23 hPa

Density at 20 °C:	1.15 g/cm <sup>3</sup>
Relative density	Not determined.

(Contd. on page 8)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**Trade name: hth<sup>™</sup> BORKLER GEL**

(Contd. of page 7)

**Vapour density** Not determined.  
**Evaporation rate** Not determined.**Solubility in / Miscibility with Water:** Fully miscible**Partition coefficient: n-octanol/water:** Not determined.**Viscosity:**  
**dynamic:** Not determined.  
**kinematic:** Not determined.**Solvent content:**  
**Organic solvents:** 20.0 %  
**Water:** 47.8 %**Solids content:** 32.2 %**9.2 Other information** No further relevant information available.**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**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:**

Poisonous gases/vapours

Hydrogen chloride (HCl)

Phosphoric acids

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity** Based on available data, the classification criteria are not met.

(Contd. on page 9)

GB



**Safety data sheet**  
 according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**Trade name: hth<sup>™</sup> BORKLER GEL**

(Contd. of page 8)

**LD/LC50 values relevant for classification:**

**CAS: 34590-94-8 Dipropylene glycol monomethyl ether**

Oral	LD50	5,135 mg/kg (rat)
Dermal	LD50	9,500 mg/kg (rat)

**Primary irritant effect:**

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

**Additional toxicological information:**

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**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.

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

(Contd. on page 10)

**Safety data sheet**  
 according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**Trade name: hth™ BORKLER GEL**

**vPvB:** Not applicable.

(Contd. of page 9)

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

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation**

Must be specially treated adhering to official regulations.  
 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, IMDG, IATA

UN1760

**14.2 UN proper shipping name**

ADR

1760 CORROSIVE LIQUID, N.O.S.  
 (HYDROCHLORIC ACID, PHOSPHORIC ACID,  
 SOLUTION)

IMDG, IATA

CORROSIVE LIQUID, N.O.S.  
 (HYDROCHLORIC ACID, PHOSPHORIC ACID,  
 SOLUTION)

**14.3 Transport hazard class(es)**

ADR



**Class**

8 (C9) Corrosive substances.

**Label**

8

(Contd. on page 11)

**Safety data sheet**  
 according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**Trade name: hth<sup>™</sup> BORKLER GEL**

(Contd. of page 10)

**IMDG, IATA**



<b>Class</b>	8 Corrosive substances.
<b>Label</b>	8
<b>14.4 Packing group</b>	
<b>ADR, IMDG, IATA</b>	II
<b>14.5 Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b>	Warning: Corrosive substances.
<b>Hazard identification number (Kemler code):</b>	80
<b>EMS Number:</b>	F-A,S-B
<b>Segregation groups</b>	Acids
<b>Stowage Category</b>	A
<b>Stowage Code</b>	SW2 Clear of living quarters.
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.

**Transport/Additional information:**

<b>ADR</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>Transport category</b>	2
<b>Tunnel restriction code</b>	E

<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

(Contd. on page 12)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**Trade name: hth<sup>™</sup> BORKLER GEL**

**UN "Model Regulation":**

(Contd. of page 11)  
UN 1760 CORROSIVE LIQUID, N.O.S.  
(HYDROCHLORIC ACID, PHOSPHORIC ACID,  
SOLUTION), 8, II

## **SECTION 15: Regulatory information**

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

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**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.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

### **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

(Contd. on page 13)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 16.04.2021

Rev. Index : 14.8

Revision: 24.03.2021

**Trade name: hth<sup>™</sup> BORKLER GEL**

(Contd. of page 12)

PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Met. Corr.1: Corrosive to metals – Category 1  
Acute Tox. 4: Acute toxicity - oral – Category 4  
Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
**\* Data compared to the previous version altered.**

GB