

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## BLEACH THIN (NORMAL)

Date of creation	21. June 2017	Revision no.	
Date of revision		Version	1

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

- 1.1 Product identifier**  
Substance / mixture BLEACH THIN (NORMAL) mixture
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Intended use of the mixture Biocide

Not recommended use of the mixture not available

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

Name or trade name	CHEMOTEX Děčín a.s.
Address	Děčín XXXII - Boletice nad Labem 63, Děčín, 407 11 Czech Republic
Phone	+420412709265
Fax	+420412547200
E-mail	MiluseBolfikova@chemotex.cz

#### Competent person responsible for the safety data sheet

Name	CHEMOTEX Děčín a.s.
E-mail	MiluseBolfikova@chemotex.cz

### 1.4 Emergency telephone number

National poisoning information centre UK, tel.: +44 844 892 0111.  
National Poisons Information Service Ireland, tel.: +353 1 809 2566.  
National poisoning information centre Scotland, tel.: 08454 242424 or 111.  
National Poisons Information Service Edinburgh, Royal Infirmary of Edinburgh, Little France Crescent, Edinburgh, EH16 4SA, tel.: +44 131 242 1383.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Skin Irrit. 2, H315  
Eye Dam. 1, H318  
Aquatic Acute 1, H400

Full text of all classifications and H-phrases is given in the section 16.

##### The most serious adverse effects on human health and the environment

Causes serious eye damage. Causes skin irritation. Very toxic to aquatic life.

#### 2.2 Label elements

##### Hazard pictogram



##### Signal word

Danger

##### Hazardous substances

sodium hypochlorite, solution ... % Cl active  
caustic soda

##### Standard hazardous statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## BLEACH THIN (NORMAL)

Date of creation 21. June 2017 Revision no.  
Date of revision Version 1

### Instructions for safe handling

P102 Keep out of reach of children.  
P260 Do not breathe mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.

### Additional information

EUH 031 Contact with acids liberates toxic gas.

### 2.3 Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Name of the substance	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 017-011-00-1 CAS: 7681-52-9 EC: 231-668-3 Registration number: 01-2119488154-34-XXXX	sodium hypochlorite, solution ... % Cl active	4,7	Skin Corr. 1B, H314 Aquatic Acute 1, H400	1
Index: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 Registration number: 01-2119457892-27-XXXX	caustic soda	<0,3	Met. Corr. 1, H290 Skin Corr. 1A, H314	2

#### Notes

- Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- The substance with a specific concentration limit

Full text of all classifications and H-phrases is given in the section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this Safety Data Sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## BLEACH THIN (NORMAL)

Date of creation	21. June 2017	Revision no.	
Date of revision		Version	1

### **Skin contact**

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

### **Eye contact**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

### **Ingestion**

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

## **4.2 Most important symptoms and effects, both acute and delayed**

### **Inhalation**

Inhaling vapours can cause corrosion of the breathing system. Not expected.

### **Skin contact**

Causes skin irritation.

### **Eye contact**

Causes serious eye damage.

### **Ingestion**

Corrosion of the digestion system can occur. Irritation, nausea.

## **4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### **Unsuitable extinguishing media**

water - full jet

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### **5.3 Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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

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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

### **6.2 Environmental precautions**

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

### **6.4 Reference to other sections**

See the Section 7, 8 and 13.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## BLEACH THIN (NORMAL)

Date of creation 21. June 2017 Revision no.  
Date of revision Version 1

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

#### 7.3 Specific end use(s)

not available

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### United Kingdom of Great Britain and Northern Ireland

Name of the substance (component)	Type	Time of exposure	Value	Note	Source
caustic soda (CAS: 1310-73-2)	WEL	Short-term	2 mg/m <sup>3</sup>		Gestis

#### 8.2 Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

##### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

##### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer.

##### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

##### Thermal hazard

Not available.

##### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

### SECTION 9: Physical and chemical properties

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

Appearance	liquid
Physical state	liquid at 20°C
color	yellowish to slightly green-yellowish
Odour	Hypochlorite
Odour threshold	data not available
pH	10.0-11.5 (1% solution at 20 °C)
Melting point/freezing point	<0 °C
Initial boiling point and boiling range	>100 °C
Flash point	>100 °C
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	data not available
Vapour density	data not available
Relative density	1.15 (water=1)
Solubility(ies)	

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## BLEACH THIN (NORMAL)

Date of creation	21. June 2017	Revision no.	
Date of revision		Version	1

solubility in water	easily dissolvable in cold water
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	< 10 mPa.s při 20 °C
Explosive properties	The product does not have explosive properties.
Oxidising properties	Oxidizing agent
<b>9.2 Other information</b>	
Density	1.150 g/cm <sup>3</sup> at 20 °C
auto-ignition temperature	data not available

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

The mixture reacts with concentrated and diluted acids, acidic materials, reducing and strong oxidizing agents and ammonia. It can be corrosive to some metals.

#### 10.2 Chemical stability

Under normal conditions, a small amount of chlorine is spontaneously released from the product.

#### 10.3 Possibility of hazardous reactions

It reacts with concentrated and diluted acids, acidic substances, reductive and strong oxidizing agents and ammonia to produce dangerous chemical reactions (the risk of toxic chlorine gas leakage).

#### 10.4 Conditions to avoid

Increased temperature, significant changes in storage temperatures, long-term effects of direct sunlight. Avoid shaking the product - its durability is reduced.

#### 10.5 Incompatible materials

Reducing agents, acids, ammonia, aluminum and its alloys, other metals. There is an exothermic reaction and decomposition.

#### 10.6 Hazardous decomposition products

Under normal conditions, a small amount of chlorine is spontaneously released from the product. During thermal decomposition chlorine and chlorine oxides are released.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

No toxicological data is available for the mixture.

##### Acute toxicity

Based on available data the classification criteria are not met.

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/irritation

Causes serious eye damage.

##### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

##### 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.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## BLEACH THIN (NORMAL)

Date of creation	21. June 2017	Revision no.	
Date of revision		Version	1

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Acute toxicity

Very toxic to aquatic life.

### 12.2 Persistence and degradability

Inorganic substances. Can not be applied to the biodegradability method. The sodium hypochlorite solution is not stable. It spreads over sodium chloride and water.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

Not available.

### 12.5 Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6 Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

## SECTION 14: Transport information

### 14.1 UN number

UN 3082

### 14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Content Sodium hypochlorite)

### 14.3 Transport hazard class(es)

9 Miscellaneous dangerous substances and articles

### 14.4 Packing group

III - substances presenting low danger

### 14.5 Environmental hazards

not available

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## BLEACH THIN (NORMAL)

Date of creation	21. June 2017	Revision no.	
Date of revision		Version	1

### 14.6 Special precautions for user

Reference in the Sections 4 to 8.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not available

#### Additional information

The hazard identification number

**90** (Kemler Code)

UN number

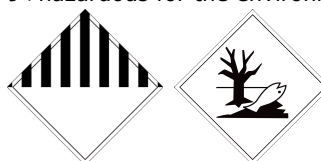
**3082**

Classification code

M6

Safety signs

9+dangerous for the environment



### Air transport - ICAO/IATA

Packaging instructions passenger

964

Cargo packaging instructions

964

### Marine transport - IMDG

EMS (emergency plan)

F-A, S-F

## SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). The Act No. 258/2000 Coll., on Protection of Public Health as amended. Decree No. 361/2007 Coll., determining conditions of occupational health protection as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its determination and implementation of certain other provisions of the Air Protection Act as amended. The Act No. 185/2001 Coll., on Waste and the Amendment of Some Other Acts as amended. The Act No. 201/2012 Coll., on the Protection of Atmosphere – Clean Air Act as amended. Decree No. 80/2014 Coll., amending the Decree No. 194/2001 Coll., laying down technical requirements for aerosol sprays as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

### 15.2 Chemical safety assessment

not available

## SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

### Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## BLEACH THIN (NORMAL)

Date of creation	21. June 2017	Revision no.	
Date of revision		Version	1

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.

### A list of additional standard phrases used in the safety data sheet

EUH 031 Contact with acids liberates toxic gas.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road  
BCF Bioconcentration Factor  
CAS Chemical Abstracts Service  
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures  
DNEL Derived no-effect level  
EC50 Concentration of a substance when it is affected 50% of the population  
EINECS European Inventory of Existing Commercial Chemical Substances  
Ems Emergency plan  
ES Identification code for each substance listed in EINECS  
EU European Union  
IATA International Air Transport Association  
IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals  
IC50 Concentration causing 50 % blockade  
ICAO International Civil Aviation Organization  
IMDG International Maritime Dangerous Goods Transport  
INCI International Nomenclature of Cosmetic Ingredients  
ISO International Organization for Standardization  
IUPAC International Union of Pure and Applied Chemistry  
LC50 Lethal concentration of a substance in which it can be expected death of 50% of the population  
LD50 Lethal dose of a substance in which it can be expected death of 50% of the population  
LOAEC Lowest observed adverse effect concentration  
LOAEL Lowest observed adverse effect level  
Log Kow Octanol-water partition coefficient  
MARPOL International Convention for the Prevention of Pollution From Ships  
MFAG First Aid Manual  
NOAEC No observed adverse effect concentration  
NOAEL No observed adverse effect level  
NOEC No observed effect concentration  
NOEL No observed effect level  
OEL Occupational Exposure Limits  
PBT Persistent, Bioaccumulative and Toxic  
PEL Permissible Exposure Limit  
PNEC Predicted no-effect concentration  
ppm Parts per million  
REACH Registration, Evaluation, Authorisation and Restriction of chemicals (EP and Council Regulation (EC) No 1907/2006)  
RID Agreement on the transport of dangerous goods by rail  
UN Four-figure identification number of the substance or article taken from the UN Model Regulations  
UVCB Substances of unknown or variable composition, complex reaction products or biological materials  
VOC Volatile organic compounds



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## BLEACH THIN (NORMAL)

Date of creation	21. June 2017	Revision no.	
Date of revision		Version	1

vPvB	Very Persistent and very Bioaccumulative
w/w	Weight by weight

Aquatic Acute	Hazardous to the aquatic environment
Eye Dam.	Serious eye damage
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornyčová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.