



Thick bleach

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 07/04/2015

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Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : Thick bleach
Type of product : Detergent
Product group : Trade product

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Consumer use, Industrial use

Title	Use descriptors
Thick bleach	SU21, SU22, PC35

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Met. Corr. 1 H290

Skin Corr. 1A H314

Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

GHS09

Signal word (CLP) :

Danger

Hazardous ingredients :

sodium hypochlorite, solution ... % Cl active

Hazard statements (CLP) :

H290 - May be corrosive to metals
H314 - Causes severe skin burns and eye damage
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P103 - Read label before use
P234 - Keep only in original container
P273 - Avoid release to the environment
P280 - Wear protective gloves, protective clothing, eye protection, face protection
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P390 - Absorb spillage to prevent material damage
P391 - Collect spillage
P405 - Store locked up
P501 - Dispose of contents/container to according to local regulations.

EUH phrases : EUH206 - Warning! Do not use together with other products. May release dangerous gases (chlorine)

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium hypochlorite, solution ... % Cl active	(CAS No) 7681-52-9 (EC no) 231-668-3 (EC index no) 017-011-00-1 (REACH-no) 01-2119488154-34	2,5<=x%<10	Met. Corr. 1, H290 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
N,N-dimethyltetradecylamine N-oxide	(CAS No) 3332-27-2 (EC no) 222-059-3 (REACH-no) 01-2119949262-37	0<=x%<2,5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400

Specific concentration limits:

Name	Product identifier	Specific concentration limits
sodium hypochlorite, solution ... % Cl active	(CAS No) 7681-52-9 (EC no) 231-668-3 (EC index no) 017-011-00-1 (REACH-no) 01-2119488154-34	(C >= 5) EUH031

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Reactivity in case of fire : Stable at ambient temperature and under normal conditions of use.

Hazardous decomposition products in case of fire : At high temperature may liberate dangerous gases. Carbon dioxide. Carbon monoxide. Chlorine.

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5.3. Advice for firefighters

Firefighting instructions	: Prevent fire-fighting water from entering environment. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: The product itself is not combustible.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Use protective clothing. Wear protective gloves. Safety glasses.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Rinse immediately with plenty of water. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Do not use solvents or thinners.
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6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: May be corrosive to metals.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe vapours.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep out of reach of children. Keep only in the original container in a cool, well-ventilated place. Keep container closed when not in use. The floor of the depot should be impermeable and designed to form a water-tight basin.
Special rules on packaging	: Keep only in original container.

7.3. Specific end use(s)

The product is intended for private use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

N,N-dimethyltetradecylamine N-oxide (3332-27-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	11 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6,2 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,44 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1,53 mg/m ³
Long-term - systemic effects, dermal	5,5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,0335 mg/l
sodium hypochlorite, solution ... % Cl active (7681-52-9)	
DNEL/DMEL (Workers)	
Long-term - local effects, dermal	0,5 % in mixture
Long-term - systemic effects, inhalation	1,55 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,26 mg/kg bodyweight/day

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sodium hypochlorite, solution ... % Cl active (7681-52-9)

Long-term - systemic effects, inhalation : 1,55 mg/m³

Long-term - local effects, dermal : 0,5 % in mixture

PNEC (Water)

PNEC aqua (freshwater) : 0,21 µg/l

PNEC aqua (marine water) : 0,042 µg/l

8.2. Exposure controls

Appropriate engineering controls : Provide good ventilation in process area to prevent formation of vapour.

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Safety glasses. Protective clothing. High gas/vapour concentration: gas mask.

Hand protection : Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (>=0.4 mm), chloroprene rubber (>=0.5 mm), butyl rubber (>=0.7 mm) and others. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection : Use eye protection according to EN 166, designed to protect liquid splashes. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

Skin and body protection : Wear suitable protective clothing. Overall. boots made of natural rubber

Type	Standard
Protective clothing	EN 14605, EN 13034
Boots.	EN 13832-2, EN 13832-3, EN ISO 20346

Respiratory protection : Wear appropriate mask. particulates filter device (DIN EN 143).



Other information : Do not eat, drink or smoke during use. Remove immediately contaminated clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
pH	: > 12
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)	: Non flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: > 1
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

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Explosion limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use. Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, NOx.

10.4. Conditions to avoid

Contact with : metals.

10.5. Incompatible materials

May be corrosive to metals.

10.6. Hazardous decomposition products

Thermal decomposition generates : fume. Carbon monoxide. Carbon dioxide. Chlorine (Cl₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

N,N-dimethyltetradecylamine N-oxide (3332-27-2)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
sodium hypochlorite, solution ... % Cl active (7681-52-9)	
LD50 oral rat	1100 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 inhalation rat (mg/l)	> 10,5 mg/l

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: > 12

Serious eye damage/irritation : Serious eye damage, category 1, implicit
pH: > 12

Respiratory or skin sensitisation : Not classified
Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met

Carcinogenicity : Not classified
Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure) : Not classified
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified
Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Other information : Exposure to organic solvent vapours above the indicated exposure limits may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Avoid release to the environment.

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Ecology - water : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Thick bleach	
EC50 Daphnia	<= 10 mg/l
N,N-dimethyltetradecylamine N-oxide (3332-27-2)	
LC50 fishes	10,3 mg/l
EC50 other aquatic organisms 1	0,81 mg/l
sodium hypochlorite, solution ... % Cl active (7681-52-9)	
LC50 fishes	0,01 - 0,1 mg/l
EC50 Daphnia	0,01 - 0,1 mg/l Ceriodaphnia spec
ErC50 (algae)	0,01 - 0,1 mg/l
TLM fish 1	<= 0,1 mg/l
TLM other aquatic organisms 1	<= 0,01 mg/l Ceriodaphnia spec
Threshold limit algae 1	0,01 mg/l

12.2. Persistence and degradability

Thick bleach	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Thick bleach	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.
European List of Waste (LoW) code : 20 01 00 - separately collected fractions (except 15 01)

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1791

14.2. UN proper shipping name

Proper Shipping Name (ADR) : HYPOCHLORITE SOLUTION
Transport document description (ADR) : UN 1791 HYPOCHLORITE SOLUTION, 8, III, (E), ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



14.4. Packing group

Packing group (ADR) : III

14.5. Environmental hazards

Dangerous for the environment : Yes

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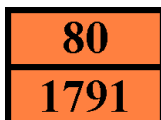
according to Regulation (EC) No. 453/2010

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C9
Special provisions (ADR) : 521
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC02, LP01, R001
Special packing provisions (ADR) : B5
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP2, TP24
Tank code (ADR) : L4BV(+)
Tank special provisions (ADR) : TE11
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2X

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Thick bleach
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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Other information, restriction and prohibition regulations : Packaging with child-resistant fastening. Tactile warning according to EN/ISO 11683.

Detergent Regulation : Ingredient data sheet:

Component	CAS No	%
SODIUM HYPOCHLORITE	7681-52-9	1 - 10%
MYRISTAMINE OXIDE	3332-27-2	1 - 10%

Detergent Regulation : Labelling of contents:

Component	%
non-ionic surfactants, chlorine-based bleaching agents	<5%

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

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Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
EUH206	Warning! Do not use together with other products. May release dangerous gases (chlorine)
PC35	Washing and cleaning products (including solvent based products)
SU21	Consumer uses: Private households (= general public = consumers)
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product