

Product Thick Bleach
 Revision date 16 June 2017
 Revision 1



Safety Data Sheet (SDS)

Section 1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Product name Thick Bleach
Product no. DISTHKBLCH
Synonyms, Trade names No information available.

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

Identified uses Bleach.
Uses advised against Any other purpose.

1.3 Details of the supplier of the safety data sheet

Supplier Kitchenmaster NI Ltd
 11 Comber Road
 Belfast
 BT8 8AN
 United Kingdom
 Tel: 028 9081477 02890812881
 sales@kitchenmaster-ni.com

Contact person

1.4 Emergency telephone number

Emergency telephone Emergency Telephone Number: 028 9081 4777 08:30 - 17:00 Monday to Thursday 08:30 - 16:30 Friday

Section 2: Hazards identification

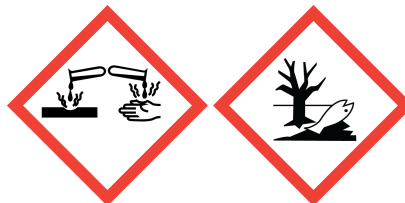
2.1 Classification of the substance or mixture

Classification (EC 1272/2008)
 Physical and chemical hazards Me. Corr 1 - H290
 Human health Skin Corr. 1B - H314, Eye Dam. 1 - H318
 Environment Aquatic Acute 1 - H400

2.2 Label elements

Contains Sodium Hypochlorite Solution
 sodium hydroxide caustic soda
 N,N-dimethyltetradecylamine N-oxide
 sodium hydroxide

Label in accordance with (EC) no. 1272/2008



Signal word Danger

Hazard statements H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H400 Very toxic to aquatic life.

Precautionary statements **Prevention**
 P260 Do not breathe dust/fume/ gas/mist/vapours/spray.

P280 Wear protective gloves/ protective clothing/eye protection/face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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 contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

EUH statements

EUH031 Contact with acids liberates toxic gas.

2.3 Other hazards

None known.

Section 3: Composition/identification of ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product identifier	Reg. EU 1272/2008	%
Sodium Hypochlorite Solution	CAS-No.: 7681-52-9 EC No.: 231-668-3 REACH Reg No.: 1-2119488154-34-xxxx	Skin Corr. 1B - H314, Eye Dam. 1 - H318, STOT SE 3 - H335, Me. Corr 1 - H290, Aquatic Acute 1 - H400	1-10%
sodium hydroxide caustic soda	CAS-No.: 1310-73-2 EC No.: 215-185-5	Skin Corr. 1A - H314	1-10%
N,N-dimethyltetradecylamine N-oxide	CAS-No.: 3332-27-2 EC No.: 222-059-3	Acute Tox 4 - H302, Skin Irrit.2 - H315, Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 2 - H411	1-10%
sodium hydroxide	CAS-No.: 1310-73-2 EC No.: 215-185-5	Skin Corr. 1A - H314, Eye Dam. 1 - H318, Me. Corr 1 - H290	1-10%
formaldehyde ... %	CAS-No.: 50-00-0 EC No.: 200-001-8	Acute Tox 3 - H301, Acute Tox 2 - H310, Skin Corr. 1B - H314, Skin. Sens 1 - H317, Acute Tox 3 - H331, Muta. 2- H341, Carc. 1B - H350	0.001-0.009%

The full text for all hazard statements are displayed in section 16.

Composition comments

The data shown are in accordance with the latest EC Directives. Formaldehyde is used in the raw material manufacturing process.

Section 4: First aid measures

4.1 Description of first aid measures

General information

As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue. Provide general first aid, rest, warmth and fresh air.

Inhalation

Move the exposed person to fresh air at once. If breathing is difficult, oxygen should be administered by qualified personnel. If not breathing, give artificial respiration. Get prompt medical attention.

Ingestion

Get medical attention immediately. Do not induce vomiting. Provided the patient is fully conscious, washout mouth with water. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Artificial respiration and/or oxygen may be necessary.

Skin contact

Take off contaminated clothing and shoes immediately. Promptly flush contaminated skin with water. Continue to rinse for at least 15 minutes. Seek medical attention immediately.

Eye contact

SPEED IS ESSENTIAL. Avoid contaminating unaffected eye. Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. Remove contact lenses if present and easy to do so. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependant of the concentration and the

Inhalation	length of exposure.
Ingestion	Irritating to respiratory system.
Skin contact	May cause chemical burns in mouth and throat. May cause stomach pain or vomiting. Symptoms: Redness, swelling of tissue, burns, ulceration. May in some instances cause burns to the skin.
Eye contact	May cause irreversible eye damage. Symptoms may include redness, lachrymation, swelling of tissue, burns.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician	Treat Symptomatically.
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Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray. Water fog. Foam. Dry powder. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	No unsuitable extinguishing media identified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	Hazardous decomposition products formed under fire conditions.
Unusual fire & explosion hazards	Acid will react with active metals to produce flammable hydrogen.
Specific hazards	During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting procedures	If possible, fight fire from protected position. Ventilate closed spaces before entering them. Keep up-wind to avoid fumes. Containers close to fire should be removed immediately or cooled with water. Suppress (knock down) gasses/vapours/mists with a water spray.
Protective equipment for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Personal protective equipment conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Do not mix with other chemicals. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Eliminate all sources of ignition.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Follow safe handling advice and personal protective equipment recommendations for normal use of product. Do not touch spilled material.

6.2 Environmental precautions

Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
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6.3 Methods and material for containment and cleaning up

Spill clean up methods	Ventilate and evacuate the area. Eliminate all ignition sources. Wear necessary protective equipment DO NOT touch spilled material! Stop leak if possible without risk. Use non-metallic tools/containers for clean up. Absorb spillage with inert, damp, non-combustible material or use a liquid binding material. Place waste material into suitable labelled sealed containers for disposal. Remove waste promptly to a safe area. Flush with plenty of water to clean spillage area.
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6.4 Reference to other sections

Reference to other sections	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
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Section 7: Handling and storage

7.1 Precautions for safe handling

Handling

Read and follow manufacturer's recommendations. Use personal protective equipment, see Section 8. Avoid contact with skin and eyes. Do not handle broken packages without protective equipment. Ensure adequate ventilation. If necessary, use local exhaust ventilation.

Do not use contact lenses. Keep away from flammable materials and incompatible substances. Use only equipment and materials which are compatible with the product. Do not confine the product in a circuit, between closed valves, or in a container without a vent. Always wash hands after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions

Keep locked up and out of reach of children. Store in tightly closed original container in a cool, dry and well-ventilated place.

Storage class

Corrosive storage

7.3 Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage description

Use only according to directions.

Section 8: Exposure controls/Personal protection

8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
sodium hydroxide caustic soda	OEL				2 mg/m ³	
sodium hydroxide	WEL				2 mg/m ³	
formaldehyde ... %	WEL	2 ppm	2,5 mg/m ³	2 ppm	2,5 mg/m ³	
formaldehyde ... %	OEL	0.2 ppm		0.4 ppm		

Ingredient comments

WEL - Workplace Exposure Limits - EH40/2005 Workplace exposure limits.
OEL - Occupational Exposure Limit - Ireland, Occupational Exposure Limits 2016.

8.2 Exposure Controls

Protective equipment



Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). If the respirator is the sole means of protection, use a full-face supplied air respirator. Self-contained breathing apparatus (EN 133). Respirator with a vapour filter (EN 141). In case of decomposition (see section 10), face mask with combined type B-P2 cartridge.

Hand protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. (EU Directive 89/686/EEC). Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Gloves must be inspected prior to use.
Suggested material: Nitrile. Minimum layer thickness: ≥ 0.35 mm. Break through time: 480 min. Gloves must be inspected prior to use. Consult manufacturer for specific advice on material. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Eye protection

Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN

Other protection	166(EU). Wear appropriate clothing to prevent any possibility of skin contact. The selected clothing must satisfy the European norm standard EN 943. Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Hygiene measures	DO NOT SMOKE IN WORK AREA! Wash hands after handling. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Process conditions	Keep container tightly sealed when not in use. Ensure that eye flushing systems and safety showers are located close by in the work place.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless to pale yellow.
Odour	Characterisitic Bleach Odour.
Odour threshold - lower	No information available.
Odour threshold - upper	No information available.
pH-Value, Conc. Solution	13 - 14.
pH-Value, Diluted solution	No information available.
Melting point	No information available.
Initial boiling point and boiling range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability state	No information available.
Flammability limit - lower(%)	No information available.
Flammability limit - upper(%)	No information available.
Vapour pressure	No information available.
Vapour density (air=1)	No information available.
Relative density	1.066g/cm ³ @ 20.00 °C
Bulk density	No information available.
Solubility	Soluble in water.
Decomposition temperature	No information available.
Partition coefficient; n-Octanol/Water	No information available.
Auto ignition temperature (°C)	No information available.
Viscosity	No information available.
Explosive properties	Not classified as explosive.
Oxidising properties	No information available.

9.2 Other information

Molecular weight	No information available.
Volatile organic compound	No information available.

Other information None noted.

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity Corrosive to metals. May react with active metals, such as aluminum and iron, to release flammable hydrogen gas. Reaction with acids. May decompose violently on mixing with acids, with rapid evolution of chlorine gas.

10.2 Chemical stability

Stability Stable under normal temperature conditions and recommended use. Corrosive in contact with metals.

10.3 Possibility of hazardous reactions

Hazardous reactions For information on hazardous reactions see section 10.1.
Hazardous polymerisation Unknown.
Polymerisation description Not applicable.

10.4 Conditions to Avoid

Conditions to avoid Heat, sparks, open flames, temperature extremes and direct sunlight. To avoid thermal decomposition do not overheat. Avoid freezing. Protect from static discharge.

10.5 Incompatible materials

Materials to avoid Metals, Salts of metals, Acids, Organic materials. Avoid acids and oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products Chlorine, Sodium chlorate, Hypochlorous acid, predominant at acid pH, is 4 to 5 fold more toxic than hypochlorite ion. The release of other hazardous decomposition products is possible.

Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicological information Caustic/ irritant effect on skin, eyes and mucous membranes (Respiratory tract).

Acute toxicity (Oral LD50) SODIUM HYDROXIDE (CAS 1310-73-2): 325 mg/kg bw Rabbit. SODIUM HYPOCHLORITE SOLUTION (CAS 7681-52-9): 1100 mg/kg Rat. FORMALDEHYDE (CAS: 50-00-0): 800 mg/kg bw Rat. REACH dossier information.

Acute toxicity (Dermal LD50) SODIUM HYDROXIDE (CAS 1310-73-2): 1350 mg/kg Rabbit. SODIUM HYPOCHLORITE SOLUTION (CAS 7681-52-9): > 20000 mg/kg Rabbit.

Acute toxicity (Inhalation LD50) SODIUM HYPOCHLORITE SOLUTION (CAS 7681-52-9): > 10.5 mg/l (vapours) Rat 1 hour. FORMALDEHYDE (CAS: 50-00-0): RD50 of 38 mg/m³ Rat. REACH dossier information.

Serious eye damage/irritation Causes serious eye damage.

Skin corrosion/irritation The product is classified as a skin corrosion/irritation hazard.

Respiratory sensitisation No information available.
Skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Specific target organ toxicity - Single exposure:
STOT - Single exposure No information available.
Specific target organ toxicity - Repeated exposure:
STOT - Repeated exposure No information available.

Inhalation Irritating to respiratory system.

Ingestion	May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.
Skin contact	Symptoms: Redness, swelling of tissue, burns, ulceration. May in some instances cause burns to the skin.
Eye contact	May cause irreversible eye damage. Symptoms may include redness, lachrymation, swelling of tissue, burns.
Waste management	Dispose of in accordance with local and national regulations. When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Routes of entry	No information available.
Target organs	Eyes, skin, digestive system, respiratory system.
Aspiration hazards:	No information available.
Reproductive toxicity:	No information available.

Name	LD50 oral	LD50 dermal	LD50 inhalation
N,N-dimethyltetradecylamine N-oxide	>2000.00mg/kg Rat		

Section 12: Ecological information

12.1 Toxicity

Acute toxicity - Fish	SODIUM HYDROXIDE (CAS 1310-73-2): LC50 96 hours 45.4 mg/l Onchorhynchus mykiss (Rainbow trout). SODIUM HYPOCHLORITE SOLUTION (CAS 7681-52-9): LC50 96 hours > .023 mg/l Pink salmon. FORMALDEHYDE (CAS: 50-00-0) LC50: 6.7 mg/L Morone saxatilis (striped bass), 96 hours. REACH dossier information.
Acute toxicity - Aquatic invertebrates	SODIUM HYDROXIDE (CAS 1310-73-2): EC50 48 hours 40.4 ug/L Ceriodaphnia sp. SODIUM HYPOCHLORITE SOLUTION (CAS 7681-52-9): EC50 48 hours 35 ug/L Ceriodaphnia dubia. NOEC 48 hours 25 ug/L Ceriodaphnia dubia. FORMALDEHYDE (CAS: 50-00-0): 1.9 mg/L Daphnia pulex, 48 hours. REACH dossier information.
Acute toxicity - Aquatic plants	SODIUM HYPOCHLORITE SOLUTION (CAS 7681-52-9): EC50 96 hours ~ 0.01 mg/l Myriophyllum spicatum. NOEC 96 hours 0.02 mg/l Myriophyllum spicatum. FORMALDEHYDE (CAS: 50-00-0) EC50: 03.48 mg/L Desmodesmus subspicatus (reported as Scenedesmus subspicatus), 72 hours. REACH dossier information.
Acute toxicity - Microorganisms	No information available.
Chronic toxicity - Fish	No information available.
Chronic toxicity - Aquatic invertebrates	No information available.
Chronic toxicity - Aquatic plants	No information available.
Chronic toxicity - Microorganisms	No information available.
Ecotoxicity	The product contains substance which is very toxic to aquatic life.
Eco toxicological information	The product contains a substance which is harmful to aquatic organisms.

12.2 Persistence and degradability

Degradability	The degradability of the product has not been stated.
Biological oxygen demand	No information available.
Chemical oxygen demand	No information available.

12.3 Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
Bioaccumulation factor	No information available.
Partition coefficient; n-Octanol/Water	No information available.

12.4 Mobility in soil

Mobility	Soluble in water.
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12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment The product does not contain any PBT or vPvB Substances.

12.6 Other adverse effects

Other adverse effects	No information available.
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Section 13: Disposal considerations

Waste management Dispose of in accordance with local and national regulations. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1 Waste treatment methods

Disposal methods Dispose of waste and residues in accordance with local authority requirements. Dispose in a safe manner in accordance with local/national regulations.

Section 14: Transport information**14.1 UN number**

UN no. (ADR) UN1903
 UN no. (IMDG) UN1903
 UN no. (IATA) UN1903

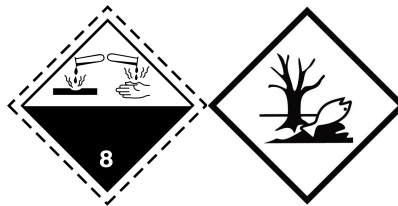
14.2 UN proper shipping name

ADR proper shipping name DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Sodium Hypochlorite Solution + sodium hydroxide caustic soda)
IMDG proper shipping name DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Sodium Hypochlorite Solution + sodium hydroxide caustic soda)
IATA proper shipping name DISINFECTANT, LIQUID, CORROSIVE N.O.S. (Sodium Hypochlorite Solution + sodium hydroxide caustic soda)

14.3 Transport hazard class(es)

ADR class 8
 IMDG class 8
 IATA class 8

Transport labels

**14.4 Packing group**

ADR/RID/ADN packing group II
 IMDG packing group II
 IATA packing group II

14.5 Environmental hazards

ADR Yes
 IMDG Yes
 IATA Yes

14.6 Special precautions for user

EMS F-A, S-B
 Emergency action code A3
 Hazard no. (ADR) 80
 Tunnel restriction code (E)

14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code**Section 15: Regulatory information****15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture**

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 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 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th

	May 2010 amending regulation (EC) No 1907/2006.
Approved code of practice	2016 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005). Workplace Exposure Limits Guidance Note EH40/2005.
Chemical safety assessment	No chemical safety assessment has been carried out.

Section 16: Other information

General information	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010
Revision comments	This is first issue
Revision date	16 June 2017
Revision	1
Safety data sheet status	Approved.

Hazard statements in full

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H411	Toxic to aquatic life with long lasting effects.
H319	Causes serious eye irritation.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects .
H350	May cause cancer .
EUH031	Contact with acids liberates toxic gas.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.