Product	Oxybleach
Revision date	19 July 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	**Oxybleach**
Product no.	**LMOXYBLCH**
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
Contact person	sales@kitchenmaster-ni.com

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	Ox Liq 1 - H271
Human health	Acute Tox 4 - H302, Acute Tox 4 - H332, Eye Dam. 1 - H318, Skin Corr. 1A - H314
Environment	Not classified

2.2 Label elements

Contains Hydrogen peroxide solution

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

Signal word Danger

Hazard statements

H271 May cause fire or explosion; strong oxidiser.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.

Precautionary statements

Response
P310 Immediately call a POISON CENTER or doctor/physician.
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.
P370 + P378 In case of fire: Use foam, powder, or CO2 for extinction.
Prevention
P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.
P221 Take any precaution to avoid mixing with combustibles/organic materials/flammable materials.

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	%
Hydrogen peroxide solution	CAS-No.: 7722-84-1 EC No.: 231-765-0	Ox Liq 1 - H271, Acute Tox 4 - H302, Skin Corr. 1A - H314, Acute Tox 4 - H332	60-100%

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.

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. Submerge soiled clothing in a basin of water to prevent possibility of fire.

Inhalation If inhaled, remove to fresh air. Keep person warm and at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and seek medical attention.

Ingestion If this product is ingested, remove victim immediately from source of exposure. Seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth out and then drink plenty of water.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Immediately wash with water, preferably under a shower, removing contaminated clothing while washing proceeds. Promptly remove soiled clothing and submerge in a basin of water to prevent possibility of fire. Continue to rinse for at least 15 minutes. Seek medical attention immediately.

Eye contact Do not rub eye. Avoid contaminating unaffected eye. Rinse with a gentle stream water for at least 15 minutes. Hold eye lids open. Remove contact lenses if present and easy to do so. Get prompt medical attention.

4.2 Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation Harmful if inhaled. Inhalation of mist or vapour may cause respiratory irritation.

Ingestion May cause chemical burns in mouth and throat. May cause severe internal injury. Harmful if swallowed.

Skin contact May cause irritation, redness, and pain.

Eye contact Causes severe eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician Treat symptomatically.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. Foam, powder, CO2.
Unsuitable extinguishing media	Organic compounds.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	Oxygen. During fire, toxic gases (CO, CO2) are formed.
Unusual fire & explosion hazards	Oxidising agent: Non-combustible but when involved in a fire it liberates oxygen which increases the rate of burning of the combustible materials involved and can cause an explosion.
Specific hazards	Decomposition is accelerated by heat and is accompanied by evolution of oxygen, which may enhance the combustion of other flammable materials. Containers can burst violently when heated, due to excess pressure build-up. Water used for fire extinguishing, which has been in contact with the product, may be corrosive

5.3 Advice for firefighters

Special fire fighting procedures	Ventilate closed spaces before entering them. Keep up-wind to avoid fumes. Avoid breathing fire vapours. If possible, fight fire from protected position. Keep run-off water out of sewers and water sources. Dike for water control.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) 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	Eliminate all sources of ignition. Read and follow manufacturer's recommendations. Avoid prolonged or repeated exposure. In case of inadequate ventilation, use respiratory protection. Do not touch or walk through spilled material. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust or vapours and contact with skin and eyes.
For emergency responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions	Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Spill clean up methods	Prevent further leakage or spillage if safe to do so. Ventilate and evacuate the area. Eliminate all ignition sources. Wear necessary protective equipment. Wear respirator if ventilation is not adequate. Cover drains. Absorb spillage with non-combustible, absorbent material - sand. Collect mechanically. In case of a large scale of spill, dyke area with sand to stop the spill spreading. Do not seal defective containers or waste receptacles airtight (danger of bursting due to product decomposition). Never return spilled product into its original container for re-use. (Risk of decomposition). Place defective containers in waste receptacle made of plastic (not metal) Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

6.4 Reference to other sections

Reference to other sections	For waste disposal, see section 13. See section 1 for emergency contact. For personal protection, see section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handling

Avoid inhalation of vapours and contact with skin and eyes. Use personal protective equipment, see Section 8. Wear appropriate respirator when ventilation is inadequate. Keep away from heat, sparks and open flame.
Keep away from flammable materials and incompatible substances. Never return spilled product into its original container for re-use. (Risk of decomposition).

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Oxidising material - Keep away from flammable and combustible materials. Store separate from alkalis. Store in locked, well ventilated room and isolated from acids. Store at 5-35°C.

Storage class

Oxidiser storage

7.3 Specific end use(s)

Specific end use(s)

The identified uses are in section 1 of this Safety Data Sheet.

Usage description

Use only according to directions. Replace and tighten cap after use.

Section 8: Exposure controls/Personal protection

8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
Hydrogen peroxide solution	OEL	1 ppm	1.5 mg/m^3	2 ppm	3 mg/m^3	
Hydrogen peroxide solution	WEL	1 ppm	1,4 mg/m^3	2 ppm	2,8 mg/m^3	

Ingredient comments

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

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

Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN 143 should be used, and suitable respirator cartridges as a backup to engineering controls. Suitable respiratory protection for lower concentrations or short-term effect: Filter type NO-P3, code colour blue-white.
In case of intensive or longer exposure: Self-contained breathing apparatus (EN 133). Consult manufacturer for specific advice. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). Change filters frequently.

Hand protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. (EU Directive 89/686/EEC). Gloves must be inspected prior to use. Suggested material: Wear natural rubber (latex) gloves. Minimum layer thickness: 0.22 mm. Break through time: >480 minutes. 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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU). Wear chemical goggles with full face shield. Basket-shaped glasses recommended.

Other protection

Wear appropriate clothing to prevent any possibility of skin contact. Suggested PPE:

	chemical resistant full-length overalls and boots. 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. The selected clothing must satisfy the European norm standard EN 943.
Hygiene measures	Observe normal hygiene standards. Wash hands after use. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. DO NOT SMOKE IN WORK AREA!
Process conditions	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.
Odour	No information available.
Odour threshold - lower	No information available.
Odour threshold - upper	No information available.
pH-Value, Conc. Solution	2.0 - 4.0.
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	1.131 - 1.196 @ 20°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	Oxidiser.

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 Product is a(n) oxidizing agent and reactive.

10.2 Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Hazardous reactions Danger of decomposition if exposed to heat. Contact with impurities, decomposition catalysts, metallic salts, alkalis, and reducing agents may lead to self-accelerated, exothermic decomposition and the formation of oxygen. Risk of overpressure and burst due to decomposition in confined spaces and pipes. Release of oxygen may support combustion. Mixtures with organic materials (e.g. solvents) can display explosive properties.

Hazardous polymerisation Unknown.

Polymerisation description Unknown.

10.4 Conditions to Avoid

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid exposure to direct sunlight. Store in a cool place - risk of decomposition at >60 degrees C.

10.5 Incompatible materials

Materials to avoid Impurities, decomposition catalysts, metal salts, alkalis, reducing substances, metals, non ferrous heavy metal, aluminium, zinc, flammable materials, and organic solvents. Organic materials, flammable materials, combustible materials.

10.6 Hazardous decomposition products

Hazardous decomposition products Produces steam and oxygen under condition of thermal decomposition.

Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicological information Harmful if swallowed. Harmful if inhaled.

Acute toxicity (Oral LD50) Hydrogen peroxide (CAS 7722-84-1): 693.7 mg/kg, Rat. REACH dossier information.

Acute toxicity (Dermal LD50) Hydrogen peroxide (CAS 7722-84-1): > 2000 mg/kg, Rabbit. REACH dossier information.

Acute toxicity (Inhalation LD50) Hydrogen peroxide (CAS 7722-84-1): > 170 mg/m³, (aerosol) Rat. REACH dossier information.

Serious eye damage/irritation Causes serious eye damage.

Skin corrosion/irritation No information available.

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 Harmful if inhaled. Inhalation of mist or vapour may cause respiratory irritation.

Ingestion May cause chemical burns in mouth and throat. May cause severe internal injury. Harmful if swallowed.

Skin contact May cause irritation, redness, and pain.

Eye contact Causes severe eye damage.

Waste management 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.

Section 12: Ecological information

12.1 Toxicity

Acute toxicity - Fish	Hydrogen peroxide (CAS 7722-84-1) LC50: (96 hours) 16.4 mg/l, Pimephales promelas. (Fat-head Minnow.) NOEC: (96 hours) 5 mg/l, Pimephales promelas. (Fat-head Minnow.) REACH dossier information.
Acute toxicity - Aquatic invertebrates	Hydrogen peroxide (CAS 7722-84-1) EC50: (48 hours) 2.4 mg/l, Daphnia pulex. NOEC: (48 hours) 1 mg/l, Daphnia pulex. REACH dossier information.
Acute toxicity - Aquatic plants	Hydrogen peroxide (CAS 7722-84-1) EC50: (72 hours) 1.38 mg/l, Skeletonema costatum. NOEC: (72 hours) 0.63 mg/l, Skeletonema costatum. 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 may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.
Eco toxilogical information	The product is not classified as dangerous for the environment.

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.
Bioacculmation factor	No information available.
Partition coefficient; n-Octanol/Water	No information available.

12.4 Mobility in soil

Mobility	Soluble in water.

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	None known.

Section 13: Disposal considerations

Waste management	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, and in accordance with all local, national and international regulations. For waste disposal, use a licensed industrial waste disposal agent.

Section 14: Transport information

14.1 UN number

UN no. (ADR)	UN2015
UN no. (IMDG)	UN2015
UN no. (IATA)	UN2015

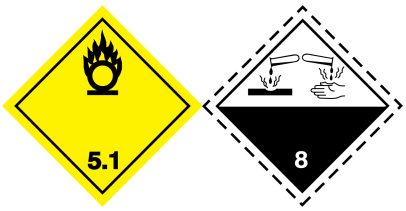
14.2 UN proper shipping name

ADR proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION, STABILIZED
IMDG proper shipping name	HYDROGEN PEROXIDE, STABILIZED or HYDROGEN PEROXIDE, AQUEOUS SOLUTION, STABILIZED with more than 60% hydrogen peroxide
IATA proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION, STABILIZED

14.3 Transport hazard class(es)

ADR class	5.1 +8
IMDG class	5.1+ 8
IATA class	5.1+8

Transport labels



14.4 Packing group

ADR/RID/ADN packing group	I
IMDG packing group	I
IATA packing group	<none>

14.5 Environmental hazards

ADR	No
IMDG	No
IATA	No

14.6 Special precautions for user

EMS	F-H, S-Q
Emergency action code	Not applicable.
Hazard no. (ADR)	559
Tunnel restriction code	(B/E)

14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code

Not applicable.

Section 15: Regulatory information

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

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 a first issue.
Revision date	19 July 2017
Revision	1
Safety data sheet status	Approved.

Hazard statements in full

H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.

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.