ProductLEMON SANITIZRevision date04 June 2017

Revision date

LEMON SANITIZING HARD SURFACE CLEANER

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Safety Data Sheet (SDS)

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

<u>1.1 Product identifier</u>

Product name	LEMON SANITIZING HARD SURFACE CLEANER
Product no.	605L
Synonyms, Trade names	No information available.

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

Identified uses	Cleaning agent.
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

2.1 Classification of the substance or m	lixture
Classification (EC 1272/2008) Physical and chemical hazards Human health Environment	Not classified Skin Corr. 1C - H314, Eye Dam. 1 - H318 Not classified
2.2 Label elements	
Contains Detergent labeling	disodium metasilicate Alcohols, C12-15, ethoxylated Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides sodium hydroxide caustic soda <5% amphoteric surfactants <5% Phosphates <5% non-ionic surfactants
Label in accordance with (EC) no. 1272/2008	
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.
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.

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	%
disodium metasilicate	CAS-No.: 6834-92-0 EC No.: 229-912-9	Skin Corr. 1B - H314, STOT SE 3 - H335	1-10%
Alcohols, C12-15, ethoxylated	CAS-No.: 68131-39-5 EC No.: 500-195-7	Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 3 - H412	1-10%
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides		Acute Tox 3 - H301, Acute Tox 3 - H311, Skin Corr. 1C - H314, Eye Dam. 1 - H318, Aquatic Acute 1 - H400	0-1%
coduum hydrovido caustic soda	EC NO.: 215-185-5		0-1%
Ibornan-7-one	CAS-No.: 76-22-2 EC No.: 200-945-0	Flam. Sol 2- H228, Acute Tox 4 - H302, Acute Tox 4 - H332, STOT SE 2 - H371	0-1%

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

<u>4.1 Description of first aid measures</u>

General information	Provide general first aid, rest, warmth and fresh air. 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.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Ingestion	If this product is ingested, remove victim immediately from source of exposure. Rinse mouth thoroughly. Do not induce vomiting. Provide fresh air, warmth and rest. Get medical attention. Never give anything by mouth to an unconscious person.
Skin contact	Remove victim immediately from source of exposure. Remove contaminated clothing, shoes and jewelry and wash before reuse. Wash the skin immediately with water. Obtain medical attention if irritation persists or if blistering occurs.
Eye contact	Do not rub eye. If this product contacts the eyes, gently flush eyes with water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if present and easy to do so. Avoid contaminating unaffected eye. Seek 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	Inhalation of mist or vapor may cause respiratory tract irritation.
Ingestion	May cause chemical burns in mouth and throat. May cause severe internal injury.
Skin contact	Corrosive. Cause severe skin burns.
Eye contact	Corrosive to eyes. Causes severe eye damage.

<u>4.3 Indication of any immediate medical attention and special treatment needed</u>

Notes to the physician	Treat symptomatically.	
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Section 5: Fire-fighting measures				
5.1 Extinguishing media				
Extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None noted.			
5.2 Special hazards arising from the su	bstance or mixture			
Hazardous combustion products	When heated, toxic and corrosive vapours/gases may be formed. During fire, toxic gases (CO, CO2) are formed.			
Unusual fire & explosion hazards Specific hazards	Flammable hydrogen can form when the product contacts metals. Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Water used for fire extinguishing, which has been in contact with the product, may be corrosive. Do not allow run-off from fire fighting to enter drains or water courses.			
5.3 Advice for firefighters				
Special fire fighting procedures	If possible, fight fire from protected position. Avoid breathing fire vapours. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so.			
Protective equipment for firefighte	rs 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

<u>6.1 Personal precautions, protective equipment and emergency procedures</u>

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Personal precautions For emergency responders	Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Eliminate all sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. Do not touch or walk through spilled material. If necessary evacuate surrounding areas. Follow safe handling advice and personal protective equipment recommendations for normal use of product.
6.2 Environmental precautions	
Environmental precautions	Do not discharge onto the ground or into water courses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Protection Agency or local authority.
6.3 Methods and material for containme	ent and cleaning up
Spill clean up methods	Stop leak if possible without risk Eliminate all ignition sources. Ventilate and evacuate the area. When dealing with a spillage, wear necessary protective equipment. DO NOT touch spilled material! Cover drains. Absorb spillage with non-combustible, inert absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash thoroughly after dealing with a spillage.
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.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handling

Read and follow manufacturer's recommendations. Use proper personal protection when handling (refer to Section 8). Do not handle broken packages without protective equipment.

Do not use contact lenses. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions Storage class	Keep upright, locked up and out of reach of children. Keep the product in its original container. Store in cool dry areas away from direct sunlight or sources of ignition. Keep away from incompatible materials (see section 10). Corrosive storage.
7.3 Specific end use(s)	
Specific end use(s) Usage description	The identified uses for this product are detailed in Section 1.2. Use only according to directions. Replace and tighten cap after use.

Section 8: Exposure controls/Personal protection

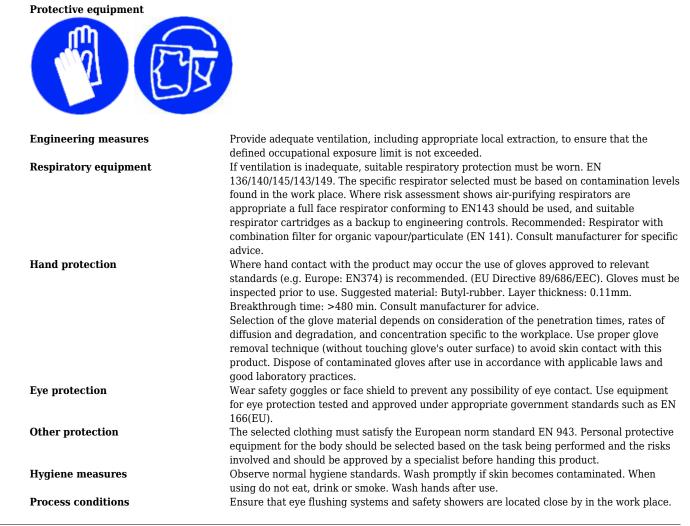
8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
sodium hydroxide caustic soda	OEL				2 mg/m ³	
sodium hydroxide caustic soda	WEL				2 mg/m ³	
bornan-2-one	OEL	2 ppm	12 mg/m ³	3 ppm	18 mg/m ³	
bornan-2-one	WEL	2 ppm	13 mg/m ³	3 ppm	19 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



Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Appearance Colour	Liquid. Yellow.
Odour	Strong Lemon fragrance.
Odour threshold - lower	No information available.
Odour threshold - upper	No information available.
pH-Value, Conc. Solution	14.00
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	1.030g/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

Reaction with: Strong oxidising agents. Reaction with strong acid. May react with active metals, such as aluminum and iron, to release flammable hydrogen gas.

10.2 Chemical stability

10.2 Chemical Stability		
Stability	Stable under normal temperature conditions and recommended use.	
10.3 Possibility of hazardous reactions		
Hazardous reactions	Avoid contact with acids and oxidising substances. Attacks metals liberating flammable Hydrogen gas.	
Hazardous polymerisation Polymerisation description	ill not polymerise. ot applicable.	
10.4 Conditions to Avoid		
Conditions to avoid	Heat, sparks, open flames, temperature extremes and direct sunlight.	
10.5 Incompatible materials		
Materials to avoid	Avoid oxidising agents. Strong acids. Do not mix with other chemicals unless listed on directions. Avoid contact with metals.	
10.6 Hazardous decomposition products		

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Section 11: Toxicological information

<u>11.1 Information on toxicological effects</u>

Toxicological information	No toxicological information for the overall finished product.	
Acute toxicity (Oral LD50)	Alcohols, C12 -15, ethoxylated (CAS: 68131-39-5) > 5000 mg/kg Rat. REACH dossier information. SODIUM HYDROXIDE (CAS: 1310-73-2): 325 mg/kg bw Rabbit. REACH dossier information.	
Acute toxicity (Dermal LD50)	Alcohols, C12 -15, ethoxylated (CAS: 68131-39-5) > 2000 mg/kg Rat. REACH dossier information. SODIUM HYDROXIDE (CAS: 1310-73-2): 325 mg/kg bw Rabbit. REACH dossier information.	
Acute toxicity (Inhalation LD50)	Alcohols, C12 -15, ethoxylated (CAS: 68131-39-5) > 1.6 mg/l (dust/mist) Rat 4 hours. REACH dossier.	
Serious eye damage/irritation	Causes severe eye damage.	
Skin corrosion/irritation	The product is classified as a skin corrosion/irritation hazard.	
Respiratory sensitisation Skin sensitisation	The product is not classified as a respiratory hazard. No information available.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	No information available.	
Specific target organ toxicity - Single exposure:STOT - Single exposureNo information available.Specific target organ toxicity - Repeated exposure:STOT - Repeated exposureNo information available.		
Inhalation Ingestion Skin contact Eye contact Waste management	Inhalation of mist or vapor may cause respiratory tract irritation. May cause chemical burns in mouth and throat. May cause severe internal injury. Corrosive. Cause severe skin burns. Corrosive to eyes. Causes severe eye damage. When handling waste, consideration should be made to the safety precautions applying to handling of the product.	
Routes of entry Target organs	No information available. Eyes, skin, digestive system, respiratory system.	
Aspiration hazards: Reproductive toxicity:	No information available. No information available.	

Name	LD50 oral	LD50 dermal	LD50 inhalation
disodium metasilicate	600.00mg/kg Rat		
Alcohols, C12-15, ethoxylated	>5000.00mg/kg Rat		

Section 12: Ecological information	
12.1 Toxicity	
Acute toxicity - Fish	Alcohols, C12 -15, ethoxylated (CAS: 68131-39-5): LC50 96 hours 0.59 mg/l Pleuronectes platessa. REACH dossier information. DISODIUM METASILICATE (CAS: 6834-92-0): LC50 96 hours 210 mg/l Brachydanio rerio (Zebra Fish). REACH dossier information. SODIUM HYDROXIDE (CAS: 1310-73-2): LC50 96 hours 45.4 mg/l Onchorhynchus mykiss (Rainbow trout).
Acute toxicity - Aquatic invertebrate	ss Alcohols, C12 -15, ethoxylated (CAS: 68131-39-5): EC50 48 hours 0.14 mg/l Daphnia magna
Acute toxicity - Aquatic plants	REACH dossier information. DISODIUM METASILICATE (CAS: 6834-92-0): EC50 48 hours 7.8 pH Daphnia magna. REACH dossier information. SODIUM HYDROXIDE (CAS: 1310-7- -2): EC50 48 hours 40.4 ug/L Ceriodaphnia sp. REACH dossier information. Alcohols, C12 -15, ethoxylated (CAS: 68131-39-5): EC50 72 hours 0.75 mg/l Selenastrum capricornutum REACH dossier information. DISODIUM METASILICATE (CAS: 6834-92-0): EC50 72 hours 207 mg/l Desmodesmus subspicatus. 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 Chronic toxicity - Microorganisms Ecotoxicity	No information available. No information available. The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.
Eco toxilogical information	No ecological toxicity available on the overall finished product.
12.2 Persistence and degradability	
Degradability Biological oxygen demand Chemical oxygen demand	The degradability of the product has not been stated. No information available. No information available.
12.3 Bioaccumulative potential	
Bioaccumulative potential Bioacculmation factor Partition coefficient; n- Octanol/Water	No data available on bioaccumulation. No information available. No information available.
<u>12.4 Mobility in soil</u>	
Mobility	Soluble in water.
12.5 Results of PBT and vPvB assessme	nt
Results of PBT and vPvB assessmen	t This product is not identified as a PBT/vPvB substance.
12.6 Other adverse effects	
Other adverse effects	None known.

Other adverse effects

None known.

Name	LACHTE TOXICITY (FISD)	5 · · ·	Acute toxicity (Aquatic plants)
Alcohols, C12-15, LC50 96 Hours >2.00ppm Brachydanio rerio (Zebra Fish)			

	Revision Date, 04 June 2017 - Revision
Section 13: Disposal considerations	
Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
3.1 Waste treatment methods	
Disposal methods	Dispose of waste and residues in accordance with local authority requirements. For waste disposal, use a licensed industrial waste disposal agent.
Section 14: Transport information	
4.1 UN number	
UN no. (ADR) UN no. (IMDG) UN no. (IATA)	UN1760 UN1760 UN1760
4.2 UN proper shipping name	
ADR proper shipping name	CORROSIVE LIQUID, N.O.S. (disodium metasilicate + Quaternary ammonium compounds,
IMDG proper shipping name	benzyl-C12-16-alkyldimethyl, chlorides) CORROSIVE LIQUID, N.O.S. (disodium metasilicate + Quaternary ammonium compounds benzyl-C12-16-alkyldimethyl, chlorides)
IATA proper shipping name	CORROSIVE LIQUID N.O.S. (disodium metasilicate + Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)
4.3 Transport hazard class(es)	
ADR class IMDG class IATA class	8 8 8
Transport labels	
4.4 Packing group	
ADR/RID/ADN packing group	
IMDG packing group IATA packing group	III III
4.5 Environmental hazards	
ADR	No
IMDG IATA	No No
4.6 Special precautions for user	
EMS	F-A, S-B
Emergency action code Hazard no. (ADR)	A3 80
Tunnel restriction code	(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	Workplace Exposure Limits Guidance Note EH40/2005.
	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).
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	04 June 2017	
Revision	1	
Safety data sheet status	Approved.	

Hazard statements in full

H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H317	May cause an allergic skin reaction.
H226	Flammable liquid and vapour.
H410	Very toxic to aquatic life with long lasting effects.
H228	Flammable solid.
H332	Harmful if inhaled.
H371	May cause damage to organs .
H304	May be fatal if swallowed and enters airways.

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.