SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	CHLORINATED MACHINE DISHWASH LIQUID
Product code	504

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

Identified uses	Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Supplier	Kitchenmaster NI Ltd 11 Comber Road Belfast BT8 8AN 028 9081477 02890812881 sales@kitchenmaster-ni.com
Contact Person	SDS Contact: sds@kitchenmaster-ni.com

1.4. Emergency telephone number

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

2.1.1 Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human Health	EUH031 Skin Corr. 1A - H314
Environment	Not classified.

2.1.2 Classification (1999/45/EEC)

C R35. R31.

2.2. Label elements

2.2.1 Label in Accordance With (EC) No. 1272/2008

Contains	SODIUM HYDROXIDE
Detergent Labelling	<5% chlorine based bleaching agents

Pictogram(s)

Signal Word	DANGER
Hazard Statements	H314 Causes severe skin burns and eye damage.
Precautionary Statements	P280 Wear protective gloves/protective clothing/eye protection/face protection. P260 Do not breathe vapour/spray. P264 Wash contaminated skin thoroughly after handling. P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338 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. P363 Wash contaminated clothing before reuse. P405 Store locked up.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

This product is a preparation.

3.2. Mixtures

Product name	Product identifier	REACH Registration	%	Classification (1999/45/EEC)	Classification (EC 1272/2008)
SODIUM HYDROXIDE	CAS: 1310-73-2 EC: 215-185-5		10-20%	C;R35.	Skin Corr. 1A - H314
SODIUM HYDROXIDE	CAS: 1310-73-2 EC: 215-185-5	01-2119457892-27-xxxx	< 1%	C;R35.	Skin Corr. 1A - H314
SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE	CAS: 7681-52-9 EC: 231-668-3	01-2119488154-34-xxxx	1-10%	C;R34 R31 N;R50	EUH031 Skin Corr. 1B - H314 Aquatic Acute 1 - H400

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

The data shown is in accordance with the latest EC directives

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Information	General first aid, rest, warmth and fresh air.
Inhalation	Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention.
Ingestion	Remove victim immediately from source of exposure. Rinse mouth thoroughly. Do not induce vomiting.

	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention immediately!
Skin contact	Remove victim immediately from source of exposure. Remove contaminated clothes and rinse skin thoroughly with water. Contact physician if irritation continues or sores develop.
Eye contact	Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Obtain medical attention for all cases where eye contact occurs

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

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. Causes severe skin burns
Eye contact	Extreme irritation of eyes and mucous membranes, including burning and tearing. Corrosive to eyes.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media	This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials

5.2. Special hazards arising from the substance 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	No unusual fire or explosion hazards noted.
Specific hazards	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

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
Protective equipment for fire-fighters	Self contained breathing apparatus and full protective clothing must be worn in case of fire

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. In case of inadequate ventilation, use respiratory protection.

6.2. Environmental precautions

Do not discharge onto the ground or into water courses

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. DO NOT touch spilled material! When dealing with a spillage, please consult the section relating to suitable protective measures. Wear necessary protective equipment. Absorb spillage with non-combustible, 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

For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Do not handle broken packages without protective equipment. Do not use contact lenses. Keep away from heat, sparks and open flame.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep upright. Do not mix with other chemicals. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store seperate from other products which react with acids and strong oxidising agents.

7.3. Specific end use(s)

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA 8 Hrs		STEL 15 Min		Notes
SODIUM HYDROXIDE	OEL	-		-	2 mg/m3	-
	WEL	No Std	No Std	No Std	2 mg/m3	
SODIUM HYDROXIDE	OEL	-		-	2 mg/m3	-
	WEL	No Std	No Std	No Std	2 mg/m3	

Ingredient Comments OEL - Occulational Exposure Limit - Ireland, Occupational Exposure Limits 2011
WEL - Workplace Exposure Limits - EH40/2005 Workplace exposure limits

8.2. Exposure controls

8.2.1 Engineering measures

Provide adequate ventilation.

8.2.3 Protective equipment

Eye protection Wear safety goggles in accordance with EN166. Eye protection equipment should be tested and approved according to regulations applicable, like NIOSH (US) or EN 166 (EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. 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. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Butyl rubber gloves are recommended. Layer thickness 0.11mm.Breakthrough time > 480 minutes.)

Other protection Provide eyewash station

8.2.4 Hygiene measures

Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Take off immediately all contaminated clothing. Avoid contact with skin, eyes and clothing.

8.2.5 Environmental Exposure Controls

Keep container tightly sealed when not in use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a)	**Appearance**	Liquid
b)	**Colour**	Clear/Slighty Opaque
c)	**Odour**	No information available
d)	**pH-Value, Conc. Solution**	14
e)	**Melting point (°C)**	No information available
f)	**Initial boiling point and boiling range (°C)**	No information available
g)	**Flash point (°C)**	No information available
h)	**Evaporation rate**	No information available
i)	**Evaporation Factor**	No information available
j)	**Flammability Limit - Lower(%)**	No information available
k)	**Flammability Limit - Upper(%)**	No information available
l)	**Vapour pressure**	No information available
m)	**Vapour density (air=1)**	No information available
n)	**Relative density**	1.18+/- 0.005
o)	**Bulk Density**	No information available
p)	**Solubility**	Soluble in water.
q)	**Decomposition temperature (°C)**	No information available
s)	**Partition coefficient; n-octanol/water**	No information available
t)	**Auto Ignition Temperature (°C)**	No information available
u)	**Viscosity**	No information available
v)	**Explosive properties**	Not considered to be explosive
w)	**Oxidising properties**	Does not meet the criteria for oxidising

9.2. Other information

No information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reaction with Oxidisers.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Reaction with: See section 10.1 for information on hazardous reactions.

Hazardous Polymerisation Will not polymerise.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid contact with oxidisers. Do not mix with other chemicals unless listed on directions. Avoid storing in large quanitites or for long periods of time.

10.5. Incompatible materials

Materials To Avoid Avoid oxidising substances.Do not mix with other chemicals unless listed on directions.

10.6. Hazardous decomposition products

During fire, toxic gases (CO, CO2) are formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1 Toxicological Information

No toxicological information for the overall finished product.

Toxicological Information on ingredients

Name	Identifier	Acute Toxicity (Oral LD50)	Acute Toxicity (Dermal LD50)	Acute Toxicity (Inhalation LC50)
SODIUM HYDROXIDE	CAS: 1310-73-2	325 mg/kg bw Rabbit REACH dossier information	1350 mg/kg Rabbit IUCLID chemical data sheet.	No information available
SODIUM HYDROXIDE	CAS: 1310-73-2	325 mg/kg bw Rabbit REACH dossier information	1350 mg/kg Rabbit IUCLID chemical data sheet.	No information available
SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE	CAS: 7681-52-9	1100 mg/kg Rat REACH dossier information	> 20000 mg/kg Rabbit REACH dossier information	> 10.5 mg/l (vapours) Rat 1 hour REACH dossier information

11.1.2 Acute toxicity:

Acute Toxicity (Oral LD50) No toxicological information for the overall finished product.

Acute Toxicity (Dermal LD50) No toxicological information for the overall finished product.

Acute Toxicity (Inhalation LC50) No toxicological information for the overall finished product.

11.1.3 Skin Corrosion/Irritation:

Corrosive. Causes severe skin burns

11.1.4 Serious eye damage/irritation:

Extreme irritation of eyes and mucous membranes, including burning and tearing. Corrosive to eyes.

11.1.5 Respiratory or skin sensitisation:

Respiratory sensitisation	Inhalation of mist or vapor may cause respiratory tract irritation
Skin sensitisation	May cause chemical burns in mouth and throat. May cause severe internal injury.

11.1.6 Germ cell mutagenicity:

Genotoxicity - In Vitro	No information available.
Genotoxicity - In Vivo	No information available.

11.1.7 Carcinogenicity:

Carcinogenicity	No information available.

11.1.8 Specific target organ toxicity - single exposure:

STOT - Single exposure	No information available.
STOT - Repeated exposure	No information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

The product components are 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.

12.2. Toxicity

No ecological toxicity available on the overall finished product.

Ecological Information on ingredients

Name	Identifier	Acute Toxicity – Aquatic Invertebrates	Acute Toxicity – Aquatic Plants	Acute Toxicity – Fish
SODIUM HYDROXIDE	CAS: 1310-73-2	EC50 48 hours 40.4 ug/L Ceriodaphnia sp REACH dossier information	No information available	LC50 96 hours 45.4 mg/l Onchorhynchus mykiss (Rainbow trout) IUCLID chemical data sheet.
SODIUM HYDROXIDE	CAS: 1310-73-2	EC50 48 hours 40.4 ug/L Ceriodaphnia sp REACH dossier information	No information available	LC50 96 hours 45.4 mg/l Onchorhynchus mykiss (Rainbow trout) IUCLID chemical data sheet.

SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE	CAS: 7681-52-9	EC50 48 hours 35 ug/L Ceriodaphnia dubia NOEC 48 hours 25 ug/L Ceriodaphnia dubia REACH dossier information	Acute Toxicity - Aquatic Plants EC50 96 hours ~ 0.01 mg/l Myriophyllum spicatum NOEC 96 hours 0.02 mg/l Myriophyllum spicatum REACH dossier information	LC50 96 hours > .023 mg/l Pink salmon REACH dossier information

12.3. Persistence and degradability

Degradability The degradability of the product has not been stated.

12.4 Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.5. Mobility in soil

Mobility: The product is soluble in water.

12.6. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.7. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 3266

UN No. (IMDG) 3266

UN No. (ICAO) 3266

14.2. UN proper shipping name

Proper Shipping Name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE SOLUTION)

14.3. Transport hazard class(es)

ADR/RID/ADN 8

ADR/RID/ADN Class 8

ADR Label No.	8
IMDG Class	8
ICAO Class/Division	8
Transport Labels	

14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant	No.

14.6. Special precautions for user

EMS	F-A, S-B
Emergency Action Code	2X
Hazard No. (ADR)	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

15.1.1 EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. 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.

15.1.2 Approved Code of Practice

2011 Code of Practice for the Safety, Health and Welfare at Work(Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Indication of Changes	
Revision Date	25/06/2015
Revision	2

Risk Phrases in Full	R34 Causes burns. R35 Causes severe burns. R31 Contact with acids liberates toxic gas. R50 Very toxic to aquatic organisms.
Hazard Statements In Full	H314 Causes severe skin burns and eye damage H400 Very toxic to aquatic life
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.