Product MACHINE DISHWASH DETERGENT 330

**Revision date** 10 February 2021

Revision 2



# Safety Data Sheet (SDS)

according to Regulation (EC) No. 1907/2006

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name MACHINE DISHWASH DETERGENT 330

Product no. MDL330

**Other means of identification** No information available.

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

**Identified uses** Cleaning agent.

For professional use only.

**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 90814777

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 Me. Corr 1 - H290 Human health Skin Corr. 1A - H314 Environment Not classified

### 2.2 Label elements

Contains Sodium hydroxide potassium hydroxide

**Detergent labeling** <5% phosphonates

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



Signal word Danger

**Hazard statements** H290 May be corrosive to metals.

 $\ensuremath{\mathsf{H314}}$  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.

 $P303 + P361 + P353 \ IF \ ON \ SKIN \ (or hair): Remove/Take \ of fimmediately \ all \ contaminated \ clothing. Rinse \ skin \ with \ water/\ shower.$ 

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/information on ingredients

#### 3.1 Substance

Not applicable.

#### 3.2 Mixtures

Name	Product identifier	Regulation (EC) No 1272/2008	%
Sodium hydroxide	CAS-No.: 1310-73-2 EC No.: 215-185-5 REACH Reg No.: 01-2119457892-27-XXXX	Skin Corr. 1A - H314, Me. Corr 1 - H290	5-10%
Pentasodium hydrogen C,C',C''- nitrilotris(methylphosphonate)	CAS-No.: 2235-43-0 EC No.: 218-791-8	Skin Irrit.2 - H315, Eye Dam. 1 - H318, Eye Irrit.2A - H319	1-5%
Tetrasodium (1- hydroxyethylidene)bisphosphonate	CAS-No.: 3794-83-0 EC No.: 223-267-7	Skin Irrit.2 - H315, Eye Dam. 1 - H318, Eye Irrit.2A - H319	1-5%
[nitrilotris(methylene)]trisphosphonic acid, potassium salt	CAS-No.: 27794-93-0 EC No.: 248-660-0	Skin Irrit.2 - H315, Eye Dam. 1 - H318, Eye Irrit.2A - H319	1-5%
potassium hydroxide	CAS-No.: 1310-58-3 EC No.: 215-181-3	Acute Tox 4 - H302, Skin Corr. 1A - H314	0.1-0.9%

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

Composition comments The

The data shown are in accordance with the latest EC Directives.

Sodium hydroxide - SCL Skin Corr. 1A: C >= 5%; Skin Corr. 1B: C >= 2 - < 5%; Skin Irrit. 2:

 $C \ge 0.5 - < 2\%$ ; Eye Irrit. 2:  $C \ge 0.5 - < 2\%$ .

#### **Section 4: First aid measures**

#### 4.1 Description of first aid measures

**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** 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

Notes to the physician Treat symptomatically.

#### **Section 5: Firefighting measures**

#### 5.1 Extinguishing media

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

flammable.

Unsuitable extinguishing media High volume water jet.

#### 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

Specific hazards

Flammable hydrogen can form when the product contacts metals. 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 if safe to do so.

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

For non-emergency personnel 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.

For emergency responders 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.

### 6.3 Methods and material for containment and cleaning up

Spill clean up methods Stop leak if possible without risk Ventilate and evacuate the area. Eliminate all ignition

sources. DO NOT touch spilled material! When dealing with a spillage, wear necessary

protective equipment.

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. 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** 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. Store  $\,$ 

separate from other products which react with acids and strong oxidising agents.

**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 descriptionUse only according to directions. Replace and tighten cap after use.

#### Section 8: Exposure controls/Personal protection

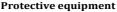
#### 8.1 Control parameters

Component	STD	TWA (	8 Hrs)	STEL (1	5mins)	Notes
sodium hydroxide caustic soda	OEL				2 mg/m <sup>3</sup>	
sodium hydroxide caustic soda	WEL				2 mg/m <sup>3</sup>	
potassium hydroxide	OEL				2 mg/m <sup>3</sup>	
potassium hydroxide	WEL				2 mg/m <sup>3</sup>	

**Ingredient comments** Ireland, Occupational Exposure Limits 2020.

WEL - Workplace Exposure Limits - EH40/2005 Workplace exposure limits.

### **8.2 Exposure Controls**





**Engineering measures** Provide adequate ventilation, including appropriate local extraction, to ensure that the

defined occupational exposure limit is not exceeded.

**Respiratory equipment** If ventilation is inadequate, suitable respiratory protection must be worn. EN

136/140/145/143/149. The specific respirator selected must be based on contamination levels found in the work place. Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143 should be used, and suitable respirator cartridges as a backup to engineering controls. Use type ABEK (EN 14387)

respirator cartridges. Consult manufacturer for specific advice.

**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). Gloves must be inspected prior to use. Suggested material: Butyl rubber - Layer thickness: 0.11~mm,

Breakthrough time: >480 min. Consult manufacturer for specific advice.

Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. 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** 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  $\ensuremath{\mathsf{EN}}$ 

166(EU).

**Other protection** The selected clothing must satisfy the European norm standard EN 943. Personal protective

equipment for the body should be selected based on the task being performed and the risks  $% \left\{ \left( 1\right) \right\} =\left\{ \left($ 

involved and should be approved by a specialist before handing this product.

**Hygiene measures** Observe normal hygiene standards. Wash promptly if skin becomes contaminated. When

using do not eat, drink or smoke. Wash hands after use.

**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** Pale, straw colour. Clear.

**Odour** Characteristic.

**Odour threshold - lower** No information available as testing has not been completed.

**Odour threshold - upper** No information available as testing has not been completed.

pH-Value, Conc. Solution >13

**pH-Value, Diluted solution** Not applicable as the product is a concentrated solution.

**Melting point** No information available as testing has not been completed.

Initial boiling point and boiling

range

No information available as testing has not been completed.

**Flash point** Not applicable as the product is not flammable.

**Evaporation rate** No information available as testing has not been completed.

**Flammability state** Not applicable as the product is not flammable.

**Flammability limit - lower(%)** Not applicable as the product is not flammable.

**Flammability limit - upper(%)** Not applicable as the product is not flammable.

Vapour pressure No information available as testing has not been completed.

Vapour density (air=1) No information available as testing has not been completed.

**Relative density**  $1.10 - 1.20 \text{ kg/l (at } 20^{\circ}\text{C)}$ 

**Bulk density** Not applicable as the product is a liquid.

**Soluble** in water.

 $\textbf{Decomposition temperature} \qquad \qquad \text{No information available as testing has not been completed.}$ 

Partition coefficient; n-

Octanol/Water

Not applicable as the product is a mixture.

 $\textbf{Auto ignition temperature (°C)} \qquad \qquad \text{Not applicable as the product is not flammable}.$ 

Viscosity No information available as testing has not been completed.

**Explosive properties** Not classified as explosive.

Oxidising properties The product does not meet the criteria to be classified as oxidising.

9.2 Other information

**Molecular weight** Not applicable as the product is a mixture.

Volatile organic compound No information available as testing has not been completed.

**Other information** None noted.

### Section 10: Stability and reactivity

10.1 Reactivity

**Reactivity** Reaction with: Acids oxidising agents. Reactive with metals.

10.2 Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

**Hazardous reactions** For information on hazardous reactions see section 10.1. Attacks metals liberating

flammable Hydrogen gas.

**Hazardous polymerisation Polymerisation description**Will not polymerise.
Not applicable.

10.4 Conditions to Avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time. Avoid extreme temperatures and storing

in large quantities and for long periods of time.

10.5 Incompatible materials

Materials to avoid Do not mix with other chemicals unless listed on directions. Keep away from acids and

oxidants. Corrosive to metals.

10.6 Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other harmful gases

or vapors.

### Section 11: Toxicological information

### 11.1 Information on hazard classses as defined in Regulation (EC) No. 1272/2008

**Toxicological information** No toxicological information for the overall finished product.

Acute toxicity (Oral LD50)No information available as testing has not been completed.Acute toxicity (Inhalation LD50)No information available as testing has not been completed.No information available as testing has not been completed.

**Serious eye damage/irritation** Causes serious eye damage.

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

**Respiratory sensitisation**The product is not classified as a respiratory hazard. **Skin sensitisation**The product is not classified as a skin sensitisation hazard.

**Germ cell mutagenicity** The product is not classified as a mutagen.

**Carcinogenicity** The product is not classified as a carcinogen hazard.

Specific target organ toxicity - Single exposure:

**STOT - Single exposure** The product is not classified as a single exposure specific target organ toxin.

Specific target organ toxicity - Repeated exposure:

**STOT - Repeated exposure**The product is not classified as a repeat exposure specific target organ toxin.

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

to eyes.

**Waste management** When handling waste, consideration should be made to the safety precautions applying to

handling of the product.

**Routes of entry** Eyes, skin, ingestion or inhalation.

**Target organs** Eyes, skin, digestive system, respiratory system.

**Aspiration hazards:** The product is not classified as an aspiration hazard. **Reproductive toxicity:** The product is not classified as a reproductive hazard.

#### 11.2 Information on other hazards

**Information on other hazards** None known.

### Section 12: Ecological information

### 12.1 Toxicity

Acute toxicity - FishNo information available as testing has not been completed.Acute toxicity - Aquatic invertebratesNo information available as testing has not been completed.Acute toxicity - Aquatic plantsNo information available as testing has not been completed.Acute toxicity - MicroorganismsNo information available as testing has not been completed.Chronic toxicity - FishNo information available as testing has not been completed.Chronic toxicity - AquaticNo information available as testing has not been completed.

invertebrates

**Chronic toxicity - Aquatic plants**No information available as testing has not been completed. **Chronic toxicity - Microorganisms**No information available as testing has not been completed.

**Ecotoxicity** 

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

DegradabilityThe degradability of the product has not been stated.Biological oxygen demandNo information available as testing has not been completed.Chemical oxygen demandNo information available as testing has not been completed.

#### 12.3 Bioaccumulative potential

Bioaccumulative potentialNo data available on bioaccumulation.Bioaccumulation factorNo information available as testing has not been completed.Partition coefficient; n-Not applicable as the product is a mixture.

12.4 Mobility in soil

Octanol/Water

**Mobility** The product is soluble in water.

### 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Product is not identified as PBT or vPvB.

### 12.6 Endocrine disrupting properties

**Endocrine disrupting properties**The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%.

### 12.7 Other adverse effects

Other adverse effects No information available.

Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
Sodium hydroxide	LC50 96 Hours 125.00mg/l Freshwater Fish		

#### 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.

#### **Section 14: Transport information**

### 14.1 UN number or ID number

 UN no. (ADR)
 UN1760

 UN no. (IMDG)
 UN1760

 UN no. (IATA)
 UN1760

### 14.2 UN proper shipping name

ADR proper shipping name IMDG proper shipping name IATA proper shipping name CORROSIVE LIQUID, N.O.S. (Sodium hydroxide + potassium hydroxide) CORROSIVE LIQUID, N.O.S. (Sodium hydroxide + potassium hydroxide) CORROSIVE LIQUID N.O.S. (Sodium hydroxide + potassium hydroxide)

#### 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 No IMDG No IATA No

### 14.6 Special precautions for user

EMS F-A, S-B
Emergency action code A3 A803
Hazard no. (ADR) 80
Tunnel restriction code (E)

#### 14.7 Maritime transport in bulk according to IMO instruments

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 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals

(REACH).

**Approved code of practice** Workplace Exposure Limits Guidance Note EH40/2005.

2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens)

Regulations (2001-2019)

# 15.2 Chemical safety assessment

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 second issue. [1]Information updated. [2]Information updated. [3]Information  $updated.\ [5] Information\ updated.\ [8] Information\ updated.$ 

 $[9] Information\ updated.\ [11] Information\ updated.\ [12] Information\ updated.\ [15] Information$ 

updated. [14]Information updated.

**Revision date** 10 February 2021

Revision

Safety data sheet status Approved.

### Hazard statements in full

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H302 Harmful if swallowed.

#### 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.