Product MACHINE DISHWASH DETERGENT

Revision date 18 September 2020

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

Productname MACHINE DISHWASH DETERGENT

Product no. 308 plus

Synonyms, Trade names No information available.

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

Identified usesCleaning agent.Uses advised againstAny 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 andchemical hazards Me. Corr 1 - H290 Human health Skin Corr. 1A - H314 Environment Not classified

2.2 Label elements

Contains 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.

Precautionary statements Prevention

P260 Do not breathe dust/fume/ gas/mist/vapours/spray.

 ${\tt P280~Wear~protective~gloves/~protective~clothing/eye~protection/face~protection.}$

Response

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

P303 +P361 +P353 IF ON SKIN (or hair): Remove/Take offimmediately 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	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%

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 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

Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media

Unsuitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

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. Keep up-wind to avoid fumes.

Protective equipment for fire-fighters 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, userespiratory 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 intowater 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 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
Sodium hydroxide	OEL				2 mg/m ³	
Sodium hydroxide	WEL				2 mg/m ³	

Ingredient comments Ireland, Occupational Exposure Limits 2020.

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 thatthe

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. 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 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

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 Clear liquid.

ColourColourless - Pale Straw.OdourCharacteristic, Slight Caustic.

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 - 14

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 Non-Flammable

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

Flammability state Not applicable as the product contains no flammable ingredients.

Flammability limit - lower(%) Not applicable as the product contains no flammable ingredients.

Flammability limit - upper(%) Not applicable as the product contains no flammable ingredients.

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

Vapour density (air=1) Noinformation available as testing has not been completed.

Relative density 1.10 - 1.20 kg/l (at 20°C)

Bulk density Not applicable as the product is a liquid.

Solubility Soluble in water.

Decomposition temperature No information available as testing has not been completed.

Partition coefficient; n-

Octanol/Water

No information available as testing has not been completed.

Auto ignition temperature (°C) Not applicable as the product contains no flammable ingredients.

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

Stable under normal temperature conditions andrecommended 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 Will not polymerise.

Polymerisation description 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 toxicological effects

Toxicological information No toxicological information for the overall finished product.

Acute toxicity (Oral LD50) SODIUM HYDROXIDE: (CAS 1310-73-2) 325 mg/kg bw Rabbit.

Acute toxicity (Dermal LD50) SODIUM HYDROXIDE: (CAS 1310-73-2) 1350 mg/kg Rabbit.

Acute toxicity (Inhalation LD50) Noinformation 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 sensitisationThe 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 exposureThe 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.

Section 12: Ecological information

12.1 Toxicity

Acute toxicity - Fish

Acute toxicity - Aquatic invertebrates

No information available as testing has not been completed.

Acute toxicity - Aquatic plants

Acute toxicity - Microorganisms

No information available as testing has not been completed.

Acute toxicity - Microorganisms

No information available as testing has not been completed.

Chronic toxicity - Fish

No information available as testing has not been completed.

No information available as testing has not been completed.

No information available as testing has not been completed.

invertebrates

Chronic toxicity - Aquatic plants

Chronic toxicity - Microorganisms

Ecotoxicity

Noinformation available as testing has not been completed. Noinformation available as testing has not been completed.

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

12.3 Bioaccumulative potential

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

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

12.4 Mobility in soil

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 Other adverse effects

Other adverse effects No information available.

Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
Sodium hydroxide	LC5096 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

 UN no. (ADR)
 UN1824

 UN no. (IMDG)
 UN1824

 UN no. (IATA)
 UN1824

14.2 UN proper shipping name

ADR propershipping name

IMDG propershipping name

SODIUM HYDROXIDE SOLUTION

SODIUM HYDROXIDE SOLUTION

SODIUM HYDROXIDE SOLUTION

SODIUM HYDROXIDE SOLUTION

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 | | |
IMDG packing group | | |
IATA packing group | | |

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 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. Commission Regulation (EU) 2019/1691 of 9 October 2019 amending Annex V to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning 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)

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. [2]Information updated. [5]Information updated. [8]Information

updated. [9]Information updated. [11]Information updated. [12]Information updated.

[15]Information updated.

Revision date 18 September 2020

Revision 2

Safety data sheet status Approved.

Hazard statements in full

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

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

