

## SAFETY DATA SHEET MACHINE DISHWASH DETERGENT

According to Regulation (EU) No 453/2010

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

#### 1.1. Product identifier

**Product name** MACHINE DISHWASH DETERGENT  
**Product No.** 330PLUS

#### 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  
Tel. 028 90814777  
Fax. 028 90812881  
email: sds@kitchenmaster-ni.com

#### 1.4. 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 (1999/45/EEC)** C;R35.

##### Human health

Corrosive. Prolonged contact causes serious eye and tissue damage.

##### Environment

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

#### 2.2. Label elements

**Contains** PENTASODIUM HYDROGEN C,C',C"-NITRILOTRIS(METHYLPHOSPHONATE)  
SODIUM HYDROXIDE  
TETRASODIUM 1-HYDROXYETHYLIDENE DISPHOSPHONATE

##### Detergent Labelling:

15 - < 30%                      Phosphonates

##### Labelling



Corrosive

##### Risk Phrases

R35                                      Causes severe burns.

##### Safety Phrases

S24/25                                  Avoid contact with skin and eyes.  
S26                                      In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39                              Wear suitable protective clothing, gloves and eye/face protection.  
S45                                      In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
S60                                      This material and its container must be disposed of as hazardous waste.

#### 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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## 3.2. Mixtures

<b>ATMP TRIPOTASSIUM SALT</b>	<b>1-5%</b>
<b>CAS-No.: 27794-93-0</b>	<b>EC No.: 248-660-0</b>
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318, H319 Eye Irrit. 2 - H318, H319	Classification (67/548/EEC) Xi;R41,R36/38.
<b>PENTASODIUM HYDROGEN C,C',C"-NITRILOTRIS(METHYLPHOSPHONATE)</b>	<b>5-10%</b>
<b>CAS-No.: 2235-43-0</b>	<b>EC No.: 218-791-8</b>
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318, H319 Eye Irrit. 2 - H318, H319	Classification (67/548/EEC) Xi;R41,R36/38.
<b>SODIUM HYDROXIDE</b>	<b>5-10%</b>
<b>CAS-No.: 1310-73-2</b>	<b>EC No.: 215-185-5</b>
Classification (EC 1272/2008) Skin Corr. 1A - H314	Classification (67/548/EEC) C;R35
<b>TETRASODIUM 1-HYDROXYETHYLIDENE DISPHOSPHONATE</b>	<b>5-10%</b>
<b>CAS-No.: 3794-83-0</b>	<b>EC No.: 223-267-7</b>
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318, H319 Eye Irrit. 2 - H318, H319	Classification (67/548/EEC) Xi;R41,R36/38.

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

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### 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 rest, warmth and fresh air. 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.

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

#### Inhalation.

Spray mists may cause respiratory tract irritation.

#### Ingestion

May cause discomfort if swallowed. May cause internal injury.

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## Skin contact

Causes burns. Blistering may occur.

## Eye contact

May cause chemical eye burns.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

#### **Extinguishing media**

Use fire-extinguishing media appropriate for surrounding materials.

#### **Unsuitable extinguishing media**

Not applicable.

### **5.2. Special hazards arising from the substance or mixture**

#### **Hazardous combustion products**

When heated, toxic and corrosive vapours/gases may be formed.

#### **Unusual Fire & Explosion Hazards**

No unusual fire or explosion hazards noted.

#### **Specific hazards**

The product is non-combustible. If heated, corrosive and toxic vapours/gases may be formed.

### **5.3. Advice for firefighters**

#### **Special Fire Fighting Procedures**

Keep run-off water out of sewers and water sources. Dike for water control.

#### **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.

### **6.2. Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

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

Stop leak if possible without risk. DO NOT touch spilled material! Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

### **6.4. Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Wash hands after handling.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed original container in a dry, cool and well-ventilated place.

#### **Storage Class**

Corrosive storage.

### **7.3. Specific end use(s)**

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	WEL		2 mg/m <sup>3</sup>	

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WEL = Workplace Exposure Limit.

## **8.2. Exposure controls**

### **Protective equipment**



### **Engineering measures**

Provide adequate ventilation.

### **Hand protection**

Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

### **Eye protection**

Wear approved safety goggles.

### **Other Protection**

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

### **Hygiene measures**

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. Wash hands after handling. When using do not eat, drink or smoke.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Yellow.
<b>Odour</b>	Characteristic.
<b>Relative density</b>	1.17
<b>pH-Value, Conc. Solution</b>	14.0

### **9.2. Other information**

Not determined.

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

Acids.

### **10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

### **10.3. Possibility of hazardous reactions**

#### **Hazardous Polymerisation**

Will not polymerise.

### **10.4. Conditions to avoid**

Avoid excessive heat for prolonged periods of time.

### **10.5. Incompatible materials**

#### **Materials To Avoid**

Acids.

### **10.6. Hazardous decomposition products**

None under normal conditions.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

#### **Inhalation**

May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

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## Ingestion

Causes burns. Swallowing concentrated chemical may cause severe internal injury.

## Skin contact

Causes burns. Blistering may occur.

## Eye contact

Causes burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

### Toxicological information on ingredients.

#### SODIUM HYDROXIDE (CAS: 1310-73-2)

##### **Toxic Dose 1 - LD 50**

40 mg/kg (oral-mouse)

##### **Acute toxicity:**

##### **Acute Toxicity (Dermal LD50)**

1350 mg/kg Rabbit

IUCLID chemical data sheet.

#### PENTASODIUM HYDROGEN C.C'.C'-NITRILOTRIS(METHYLPHOSPHONATE) (CAS: 2235-43-0)

##### **Acute toxicity:**

##### **Acute Toxicity (Oral LD50)**

17800 mg/kg Rat

Miscellaneous information sources.

##### **Acute Toxicity (Dermal LD50)**

> 15800 mg/kg Rabbit

Miscellaneous information sources.

#### ATMP TRIPOTASSIUM SALT (CAS: 27794-93-0)

##### **Toxicological information**

No information available.

#### TETRASODIUM 1-HYDROXYETHYLIDENE DISPHOSPHONATE (CAS: 3794-83-0)

##### **Acute toxicity:**

##### **Acute Toxicity (Oral LD50)**

2850 mg/kg Rat

REACH dossier information

##### **Acute Toxicity (Dermal LD50)**

> 5000 mg/kg Rabbit

REACH dossier information

## SECTION 12: ECOLOGICAL INFORMATION

### **Ecotoxicity**

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

### **12.1. Toxicity**

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## Ecological information on ingredients.

### SODIUM HYDROXIDE (CAS: 1310-73-2)

#### **Acute Toxicity - Fish**

LC50 96 hours 45.4 mg/l Onchorhynchus mykiss (Rainbow trout)  
IUCLID chemical data sheet.

### PENTASODIUM HYDROGEN C.C'.C'-NITRILOTRIS(METHYLPHOSPHONATE) (CAS: 2235-43-0)

#### **Acute Toxicity - Fish**

LC50 96 hours > 330 mg/l Onchorhynchus mykiss (Rainbow trout)  
Miscellaneous information sources.

#### **Acute Toxicity - Aquatic Invertebrates**

EC50 48 hours 297 mg/l Daphnia magna  
Miscellaneous information sources.

#### **Acute Toxicity - Aquatic Plants**

EC50 96 hours 20 mg/l Freshwater algae  
Miscellaneous information sources.

### ATMP TRIPOTASSIUM SALT (CAS: 27794-93-0)

No information available.

### TETRASODIUM 1-HYDROXYETHYLIDENE DISPHOSPHONATE (CAS: 3794-83-0)

#### **Acute Toxicity - Fish**

LC50 96 hours 3.01 g/L Poecilia reticulata (Guppy)  
REACH dossier information

#### **Acute Toxicity - Aquatic Invertebrates**

48 hours 0.32 g/L Daphnia magna  
REACH dossier information

## **12.2. Persistence and degradability**

### **Degradability**

There are no data on the degradability of this product.

## **12.3. Bioaccumulative potential**

### **Bioaccumulative potential**

No data available on bioaccumulation.

## **12.4. Mobility in soil**

### **Mobility:**

The product is soluble in water.

## **12.5. Results of PBT and vPvB assessment**

Not determined.

## **12.6. Other adverse effects**

Not determined.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **General information**

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

### **13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

## **SECTION 14: TRANSPORT INFORMATION**

### **14.1. UN number**

UN No. (ADR/RID/ADN)	1824
UN No. (IMDG)	1824
UN No. (ICAO)	1824

### **14.2. UN proper shipping name**

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Proper Shipping Name SODIUM HYDROXIDE SOLUTION

## 14.3. Transport hazard class(es)

ADR/RID/ADN Class 8  
ADR/RID/ADN Class Class 8: Corrosive substances.  
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 2W  
Hazard No. (ADR) 80

## 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

#### **Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

#### **Approved Code Of Practice**

Classification and Labelling of Substances and Preparations Dangerous for Supply.

#### **Guidance Notes**

Workplace Exposure Limits EH40.

#### **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.

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

#### **Revision Comments**

Re-issued according to Regulation (EU) No 453/2010.

Revision Date 04-2012

Revision 3

Supersedes date 05-2008

## MACHINE DISHWASH DETERGENT

### Risk Phrases In Full

R35 Causes severe burns.  
R36/38 Irritating to eyes and skin.  
R41 Risk of serious damage to eyes.

### Hazard Statements In Full

H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.