



SAFETY DATA SHEET

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

1.1 Product identifiers

Trade Name	Description	Unit	Code
Raynor	Dishmachine Detergent (Hard Water)	2 x 5L UNII	MDHW002
Raynor	Dishmachine Detergent (Hard Water)	20 L Drum	MDHW002

1.2 Relevant identified uses of the substance/mixture and uses advised

against Machine dish washing liquid for use in extreme hard water conditions.

1.3 Details of the supplier of the safety data sheet

Company	Teepol Products,		
Address	Murray Road,	Telephone	01689 877020
	Orpington,	Fax	01689 877027
	Kent BR5 3QY	E-Mail	sales@teepol.co.uk

1.4 Emergency telephone number +44 (0)1689 877020 (09:00 - 16:00 Monday to Friday)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
 Acute. Tox. 4 - Inha, H332
 Met. Corr. 1, H290
 Rep Tox 2, H361d
 Skin. Corr. 1A B C, H314

2.2 Label elements

Signal Word: *Hazard Pictograms:*

DANGER

Hazard Statements:





H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H361d Suspected of damaging the unborn child.

Precautionary Statements:

Disposal

P501 Dispose of contents/container to licensed waste disposal site.

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

P363 Wash contaminated clothing before reuse.

2.3 Other hazards

EUH none

None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<u>Substance Name</u>	<u>REACH Reg. No.</u>	<u>CAS-No</u>	<u>EC-No. 205-</u>	<u>Amount</u>
Pentasodium Diethylenetriaminepentaacetate	01-2119474445-33	140-01-2	391-3	[%] 5-15
<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statements</u>		
Reproductive toxicant	Rep Tox 2	H361d Reproductive toxicant		
None	None	None None		
Acute toxicity	Acute. Tox. 4 - Inha	H332 Acute toxicity		

<u>Substance Name</u>	<u>REACH Reg. No.</u>	<u>CAS-No</u>	<u>EC-No.</u>	<u>Amount</u>
Sodium Hydroxide	011-002-00-6	1310-73-2	215-185-5	[%] 5-15
<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statements</u>		
Skin corrosion/irritation	Skin. Corr. 1A B C	H314 Skin corrosion/irritation		
Serious eye damage/irritation	Eye. Dam. 1	H318 Serious eye damage/irritation		
Corrosive to metals	Met. Corr. 1	H290 Corrosive to metals		

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Remove contaminated clothing and wash off skin/eyes immediately.

After inhalation

Ensure supply of fresh air and seek medical attention.

After contact with skin

Wash splashes from skin immediately. If skin becomes sore or inflamed seek medical attention.

After contact with eyes

Irrigate with water for 10 to 15 minutes until irritation subsides and seek medical attention.

After ingestion:

If conscious, give plenty of water to drink, do not induce vomiting, obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation may cause pain in respiratory system, sneezing. Soreness and reddening of skin. Painful irritation, reddening and watering of eyes. Ingestion may cause pain in digestive tract.

4.3 Indication of any immediate medical attention and special treatment needed

Use water to neutralize product in the case of skin, eye contact or ingestion.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: This product is not flammable. Use fire extinguishing media appropriate for surrounding area.

5.1 Unsuitable extinguishing media: Not applicable.

5.2 Special hazards arising from the substance or mixture May produce oxides of carbon, nitrogen, sodium and sulphur.

5.3 Advice fo Fire Fighters

Wear self-contained breathing apparatus and protective clothing as appropriate to the associated fire.

SECTION 6: ACCIDENTAL RELEASE MEAS

6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate PPE. Avoid breathing vapours if any and ensure adequate ventilation. Cordon off area to other personnel.

6.2 Environmental precaution

Do not allow to enter surface water drains, soil/subsoil.

6.3 Methods and material for containment and cleaning up

Absorb with sand or binder and dispose of according to local regulations. Small spillages may be flushed to a foul drain.

6.4 Reference to Other Sections: See Section 8 and 13 for more information on exposure and disposal.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for safe handling

Provide good ventilation in working area. Wash hands after use and do not allow to enter surface water drains.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original containers out of reach of children. Storage temperature should be between 5°C and 30°C.

7.3 Specific end use(s)

Use only as directed on the container or label.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control paramenters

(Sodium Hydroxide) OES: TWA 8 hours-STEEL 15 mins 2mg/m³.

8.2 Exposure Controls

Do not eat, drink or smoke whilst working and wash hands after use.

Exposure Controls - Eyes: Avoid contact with eyes. Wear suitable eye protection if appropriate.

Exposure Controls - Skin: Wear vinyl, latex or nitrile gloves.

Exposure Controls - Respiratory Avoid inhaling dust from dried material.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance / Odourless pale straw coloured liquid (Method:

Odour pH (10% soln.) QP22)

Melting/freezing point: >13 (Method: QP03)

Flammable / Flash 0°C

point Relative density Not Flammable

Solubility: 1.12 g/cm³ @ 20°C (Method: QP07)

Viscosity: Soluble/dispersible in water As

Oxidising properties: water @20°C (Method: QP04)

Explosive properties: Not applicable.

Not applicable.

9.2 Other Information

No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Gives off hydrogen by reaction with base metals (zinc, aluminium).

10.2 Chemical Stability: No decomposition if stored and applied as directed.

10.3 Hazardous Reactions: Exothermic reaction with strong acids. Gives off hydrogen by reaction with base metals (zinc, aluminium).Risk of explosion.

10.6 Hazardous Decomposition Products Contact with aluminium may produce flammable hydrogen.

10.4 Conditions to Avoid: No information available.

10.5 Incompatible Materials: Acids, light metals, aluminium and zinc
Organic peroxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Substance	Toxicity
Pentasodium	11.1. Information on toxicological effects
Diethylenetriamine	Acute toxicity - inhalation
pentaacetate	ATE inhalation (gases ppm) 17,482.52
	ATE inhalation (vapours mg/l) 42.74
	ATE inhalation (dusts/mists mg/l) 5.83
	Reproductive toxicity
	Reproductive toxicity - fertility Contains a substance/a group of substances which may damage the unborn child.
	Inhalation Gas or vapour in high concentrations may irritate the respiratory system. Ingestion May cause severe internal injury.
	Skin contact Irritating to skin.
	Eye contact Irritating to eyes.
Sodium	Toxicological Data: Estimated fatal dose 5.0 grams.
Hydroxide	Inhalation: Dust from dried product may cause lung damage.
	Skin Contact: Will cause severe burns.
	Eye Contact: Will cause injury with possible LOSS OF SIGHT.

No information regarding interactions between the ingredients in this mixture is available, therefore, the information shown above is separately reported for each relevant ingredient used in the mixture even though it may be present below its concentration limit and represent no toxicity in the mixture as a whole.

SECTION 12: ECOLOGICAL INFORMATION

No specific information is available for this mixture, therefore, the following information regarding the relevant substances used in this mixture is provided, even though they may be present below the concentration limit and represent minimal or no toxicity to the environment.

Substance	ECO Toxicity
Pentasodium Diethylenetriamine	<p>Ecotoxicity:</p> <p>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.</p> <p>12.1. Toxicity</p> <p>Acute Fish Toxicity</p> <p>Not considered toxic to fish.</p> <p>12.2. Persistence and degradability</p> <p>Degradability:</p> <p>There are no data on the degradability of this product.</p> <p>12.3. Bioaccumulative potential</p> <p>Bioaccumulative Potential:</p> <p>The product does not contain any substances expected to be bioaccumulating.</p> <p>12.4. Mobility in soil</p> <p>Mobility:</p> <p>The product is soluble in water.</p> <p>12.5. Results of PBT and vPvB assessment</p> <p>This product does not contain any PBT or vPvB Substances.</p> <p>12.6. Other adverse effects Not determined.</p>
Sodium Hydroxide	<p>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.</p> <p>12.1 Toxicity:</p> <p>LC 50, 96 Hrs, FISH mg/l 55.6</p> <p>EC 50, 48 Hrs, DAPHNIA, mg/l 156</p> <p>12.2 Persistence and degradability:</p> <p>The product is expected to be biodegradable.</p>

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

When disposing of surplus or waste product use suitable PPE etc. ensuring empty containers are rinsed out and disposed of safely. Do not allow product to enter land or surface water drains. Dispose of in accordance with local authority regulations. Do not mix with other waste materials.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number: 1760

14.2 Shipping Name: Raynor Dishmachine Detergent (Hard Water)

14.3 Transport hazard class CORROSIVE LIQUID, N.O.S : **14.4 Packing group:** II

14.5 Environmental Hazards: CORROSIVE LIQUID, N.O.S

14.6 Special precautions for user:

No information

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:

No information



SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environment regulation/legislation specific to 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.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Guidance

ECHA Guidance on the application of CLP criteria (Version 4: November 2013)

ECHA Guidance on the compilation of safety data sheets (Version 2.1: February 2014)

15.2 Chemical safety assessment

No information

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under section 3

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H361D Suspected of damaging the unborn child.

Contains Sodium Hydroxide.

Directions:

For use via dosing equipment please refer to machine manufacturer's instructions.

(CONTAINS 10% SODIUM HYDROXIDE)

Further Information: The latest version of this data sheet may be obtained from the Harvey Waddington Web Site at: www.teepol.co.uk

GLOSSARY:	PPE	Personal protective equipment.	N/A	Not applicable.	N/K	Not known	OES	Occupational exposure limit
	TWA	Time weighted average	W/V	Weight to volume				

The data contained in this Safety Data Sheet has been supplied for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

ANIMAL TESTING: Rushbrook do not test their finished products on animals.

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