



PRODUCT INFORMATION SHEET

DISH WASH

PRODUCT INFORMATION:

A high quality, concentrated alkaline dish washing detergent suitable for use in all types of spray dish washing machines. Contains a scale inhibitor to optimise detergency even in very hard water areas to cut through grease & grime leaving a streak free finish.

ADVANTAGES:

REMOVES EVEN TENACIOUS SOILING:	Contains a powerful blend of caustic alkalis, sequestering agent & non-ionic detergents, which cuts through even the heaviest of grease & grime.
NON-FOAMING:	Dish Wash is totally non-foaming making it ideal for use in industrial & catering operations.
PREVENTS LIME SCALE BUILD UP:	Contains a sequestering agent which inhibits scale formation & optimises detergency even in very hard water areas.
LEAVES NO STREAKS OR SMEARS:	Easily rinsed off, particularly if a good quality rinse aid is used in conjunction with it, during the rinse cycle.
BIODEGRADABLE:	Fully biodegradable.
SOLUBILITY:	100% soluble in water.

DIRECTIONS FOR USE:

Use in dish washing machines as per manufacturer's guidelines at a rate of 0.01% - 0.05% or 1ml - 5ml per litre of water depending on degree of soiling. Not suitable for aluminium or aluminium alloy utensils. Do not use for hand washing of utensils. Do not mix with other cleaners, particularly acid based cleaners

PACKAGING:

All our plastic drums are high molecular weight; high-density polyethylene designed to bring the product to the customer in perfect conditions.
Size: 5Lt & 20Lt Drums.

QUALITY ASSURANCE:

This product is manufactured in Ireland to ISO 9002 quality standards & conforms to R.E.A.C.H & CLP regulations. Shelf life: Not less than 3 years.

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PRODUCT NAME: DISH WASH

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

1.1. Product identifier

Product Name DISH WASH
Product No. KR 307

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

Identified uses: Alkaline machine wash detergent

1.3. Details of the supplier of the safety data sheet

Supplier Total Cleaning Supplies
Limerick: 061 436 402 | Cork: 021 435 5262
sales@totalcleaningsupplies.ie www.totalcleaningsupplies.ie

1.4. Emergency Contact: National Poisons Information Centre, Beaumont Hospital,
Beaumont Road, Dublin 9. Tel: +353(01)8092566

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification: Regulation (EC) No 1272/2008: H290, H302, H314
Human health: Harmful if swallowed. Causes severe skin burns and eye damage.
Environment: This product is Readily Biodegradable and not expected to be hazardous to the environment

2.2. Label elements

Detergent Labelling: Contains: Sodium Hydroxide



DANGER



WARNING

Labelling

Hazard	H302	Harmful if swallowed
Statements	H314	Causes severe skin burns and eye damage.
	H290	May be corrosive to metals.
Precautionary	P102	Keep out of the reach of children
Statements	P260	Do not breathe mist/spray
	P262	Do not get in eyes, on skin or on clothing
	P264	Wash hands thoroughly after handling
	P270	Do not eat, drink or smoke when using this product.
	P280	Wear protective gloves/clothing/eye & face protection
	P301	IF SWALLOWED: Rinse out mouth immediately with water.
	& 310	Immediately call a poison centre or doctor/physician.
	P302	IF ON SKIN: Remove contaminated clothing & rinse skin thoroughly with soap & water. Obtain medical attention if irritation persists
	P304	IF INHALED: Remove immediately from source to fresh air. Obtain medical attention if any discomfort continues.
	P305	IF IN EYES: Flush eyes with water, remove contact lenses if present
	&310	& continue rinsing. Immediately call poison centre or doctor/physician.
	P501	Dispose of contents/container to in accordance with local regulations. Recover, reclaim or recycle, where possible.

2.3. Other hazards

N/A

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

SODIUM HYDROXIDE	5-10%
CAS-No.: 1310-73-2	EC No.: 215-185-5
Classification (EC 1272/2008) Skin Corr. 1A - H314	
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	5-10%
CAS-No.: 64-02-8	EC No.: 200-573-9
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	

A Full Text for all Hazard Statements are Displayed in Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:	Remove immediately from source to fresh air. Obtain medical attention if any discomfort continues.
Skin Contact:	Remove contaminated clothing & rinse skin thoroughly with soap & water. Obtain medical attention if irritation persists.
Eye Contact:	Flush eyes with water immediately. Obtain medical attention if irritation persists.
Ingestion:	DO NOT INDUCE VOMITING! Rinse out mouth immediately with water. Immediately call a poison centre or doctor/physician
Protection of first aider:	Avoid ingestion, contact with skin and eyes (see Section 8.)

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

Inhalation:	Spray mists may cause respiratory tract irritation.
Ingestion:	May cause internal injury, pain and/or vomiting
Skin contact:	Corrosive to the skin, causing ulceration and burns.
Eye contact:	Damaging to eyes. Risk of serious damage to eyes.

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: FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Media:	Water, Foam.
5.2 Unsuitable:	N/A
5.3 Specific Hazards:	May generate toxic and explosive fumes in a fire.
5.4 Special Equipment for the protection of Fire Fighters:	Fire fighters should wear self-contained breathing apparatus & body protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:	Avoid contact with skin and eyes (see Section 8.)
6.2 Environmental Precautions:	No special measures required
6.3 Methods for Cleaning up:	Small Spills - Flush with water. Large Spills - Contain and collect spillage and absorb on to sand.

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SECTION 7: HANDLING AND STORAGE

7.1 Handling

Technical Measures: No special measures required.
Safe Handling Advice: Avoid contact with eyes and skin. Comply with instructions for use.

7.2 Storage

Technical Measures: No special measures required.
Storage Conditions: Store in a cool dry place. (See section 10)
Incompatible Products: Acids &/or oxidizing agents. Aluminium, brass, tin & zinc are readily attacked to produce hydrogen gas.
Packaging: Plastic Drums.
Packaging Materials: Recommended: Plastic Materials, Polyethylene, Polypropylene.
Not Suitable - Uncoated Metal Drums.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Name	STD	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15 minute reference period)		Notes
		ppm	mg/m3	ppm	mg/m3	
SODIUM HYDROXIDE	OELV	-		-	2	

OELV = Occupational Exposure Limit Value.

8.2 Personal Protection Equipment:



Respiratory Protection: Provide adequate ventilation in areas of confined space.
Hand Protection: Use Chemical Resistant Gloves to EN Standard 374 Level 1, Letter Code K
Eye Protection: Use Chemical Goggles or Face Shield to EN Standard 166 Level 3 or higher
Skin Protection: Wear Plastic Apron EN Standard 13034 Type PB[6] & Face Shield EN Standard 166 Level 3 or higher

8.3 Hygiene Measures: Handle in accordance with good industrial hygiene and safety practices.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a)	Appearance:	Yellow Liquid.
b)	Odour:	Chemical
c)	Odour threshold:	N/A
d)	pH:	13+/-0.5
e)	Melting point / freezing point:	No data available
f)	Initial boiling point & boiling range:	No data available
g)	Flash point:	No data available
h)	Evaporation rate:	No data available
i)	Flammability solid, gas):	No data available
j)	Upper/lower flammability or explosive limits:	No data available
k)	Vapour pressure:	No data available
l)	Vapour density:	No data available
m)	Relative density:	1.12kg/dm ³
n)	Solubility(ies):	Soluble in Water
o)	Partition coefficient: n-octanol/water:	No data available
p)	Auto-ignition temperature:	No data available
q)	Decomposition temperature:	No data available
r)	Viscosity:	No data available
s)	Explosive properties:	No data available
t)	Oxidising properties:	No data available

SECTION 10: STABILITY AND REACTIVITY

<u>10.1. Reactivity:</u>	There are no known reactivity hazards associated with this product.
<u>10.2. Chemical stability:</u>	Stable under normal temperature conditions and recommended use.
<u>10.3. Possibility of hazardous reactions:</u>	Hazardous Polymerisation N/A
<u>10.4. Conditions to avoid:</u>	Avoid Extreme Temperatures. Avoid contact with acids &/or oxidising agents.
<u>10.5. Incompatible materials:</u>	Acids &/or oxidizing agents. Aluminium, brass, tin & zinc produces hydrogen.
<u>10.6. Hazardous decomposition products:</u>	None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Inhalation:	Spray mists may cause respiratory tract irritation.
Ingestion:	May cause internal injury, pain and/or vomiting
Skin contact:	Corrosive to the skin, causing ulceration and burns.
Eye contact:	Damaging to eyes. Risk of serious damage to eyes.

11.2. Toxicological information on ingredients:

SODIUM HYDROXIDE (CAS: 1310-73-2)

Acute toxicity:

Acute Toxicity (Dermal LD50)
1350 mg/kg Rabbit
IUCLID chemical data sheet.

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SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity

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

12.1. Toxicity

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.

12.2. Persistence and degradability

Degradability: The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential:

No evidence of bioaccumulation or tainting of seafood

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 to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority

13.1. Waste treatment methods

Dispose of waste in accordance with local regulations. Recover, reclaim or recycle, where possible.

SECTION 14: TRANSPORT INFORMATION

REGULATIONS

RID/ADR:

CLASS

8 / 42b

ICAO/IATA-DGR:

8 UN 1824 PAX 809

GGVSee/IMDG-Code:

8 / 42b

14.1. UN number

UN 1824

14.2. UN proper shipping name

N/A

14.3. Transport hazard class(es)

N/A

14.4. Packing Group

III

14.5. Environmental Hazards

Environmentally Hazardous Substance/Marine Pollutant:

N/A

14.6. Special precautions for user

NA

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: N/A

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SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Statutory Instruments

Corresponding to Preparations Regulations S.I. No. 62 of 2004

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.
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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.

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Hazard Statements In Full

H290 May be corrosive to metals.

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.
