

## MATERIAL SAFETY DATA SHEET (16 Point MSDS)

### HD 22 – AUTOMATIC DISH WASHER DETERGENT

#### Chemical Product And Company Identification

Product Name : **HD 22 – AUTOMATIC DISH WASHER DETERGENT**

<b>Distributor</b>	:	Hygiene Disposables	<b>Manufacturer</b>	:	P.A Dippenaar Investments t/a Chemical Techniques
<b>Address</b>	:	1 Bushbuck Close – Unit 2 Corporate Park – South Midrand, 1685	<b>Address</b>	:	12 Sophia Street West Turffontein, Johannesburg South Africa
<b>Telephone</b>	:	011 - 314 0714	<b>Telephone</b>	:	011 – 680 2516
<b>Fax</b>	:	086 532 7777 / 011-314 0713	<b>Fax</b>	:	011 – 680 2533
<b>Emergency</b>	:	082 579 5219 / 082 964 1515 (24 Hours)	<b>Emergency</b>	:	083 406 1374
			<b>Technical</b>	:	083 297 1617

#### Section 1. Product Identification

Product Name	:	Automatic Dish Washer Detergent
Product Code	:	HD 22
Chemical / Technical Nature	:	Concentrated, high alkaline, low foaming dish-washing liquid for use via automatic industrial dish-washing equipment. CAUTION : Contains Sodium Potassium hydroxide
Certification	:	SANS 1828 / 2016 (FOOD GRADE) – INTERTEK EUROPE Auto Dish Wash No.1 (FG)



#### Section 2. Composition & Information on Ingredients

Ingredients Contributing to Hazard	Content %	R - Symbol	S-Symbol
Chelating Agents	<20	R36	S46
Potassium Hydroxide	<20	R22	S46

For detailed risk and safety phrases see .15 of this MSDS. Please note data are typical of the product and not a specification or a full composition. The risk profile may change if this product is mixed with other compounds or as a blend within other components.

Revision of Hazardous Components based on SABS 0265:1999

#### Section 3. Hazards Identification

Primary Safety Hazard	:	Corrosive, degreaser, will damage, dry, burn & irritate skin
Secondary Safety Hazard	:	Corrosive, will burn and cause severe discomfort / damage eye
Additional Info	:	Irritating to respiratory system, toxic if swallowed and not treated

#### Section 4. First Aid Information

Eyes	:	Rinse with water, keep eye lids open. If discomfort does not subside within 30 minutes seek further medical attention if required.
Skin	:	Remove contaminated clothing, rinse with water & or wash with soap. Apply cream to dry skin if required.
Ingestion	:	Do not induce vomiting, keep person calm and seek medical attention.
Inhalation	:	Fresh Air

#### GENERAL NOTES TO THE PHYSICIAN AND / OR MEDICAL OFFICER :

Never give anything by mouth or induce vomiting to an unconscious person. Treatment of exposure should be directed at the control of the symptoms and the clinical condition of the patient. Depending on the risk profile of the product and the patient the symptoms may re-occur and/or change over time. In that event have the patient consult a physician again.

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## Section 5. Fire Fighting Measures

Extinguishing Media	:	Use extinguishing Media (Eg: CO2 / Water / Dry Powder)
Special Hazards	:	May cause floating fire hazard, volatile in large undiluted amounts. Fast evaporating fluid causing non-visible flammable vapor.

## Section 6. Accidental Release Measures

Environmental Precautions	:	Do not allow to enter natural waterways
METHOD FOR CLEANING UP	:	Dry Sand. Discharge in accordance with local regulations.
Small Liquid Spills (< 1 Drum)	:	Transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose
Large Liquid Spills (> 1 Drum)	:	Transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material; and dispose of safely. Remove contaminated soil and dispose of safely.

## Section 7. Handling And Storage

Handling Precautions	:	Normal Handling.
Storage	:	Cool storage, well ventilated, avoid high temperature and direct sunlight. Keep away from naked flame. Do not mix with acids.

## Section 8. Exposure Controls / Personal Protection

Engineering Control Measures	:	No specific or special measures required.
PERSONAL PROTECTION	:	
Eyes	:	Face shield or goggles
Hands	:	Gloves



## Section 9. Stability And Reactivity

Stability	:	Stable under normal cool conditions.
Hazardous Decomposition Products	:	None known

## Section 10. Physical And Chemical Properties

Appearance	:	Non Viscous Liquid
Colour	:	Amber / clear
Odour / Smell	:	Caustic soap
Other Characteristics	:	Not Applicable
pH as Supplied	:	> 12
pH @ 1% v/water	:	> 10
Boiling Point Range / Degrees C	:	> 100°C
Melting Point Range / Degrees C	:	Not Applicable
Viscosity at 20°C / mPa-s	:	Not Applicable
Flash Point / Degrees C	:	Not Applicable
Auto Ignition Temp / Degrees C	:	Not Applicable
Explosion Limits in Air %	:	Not Tested
Vapour Pressure at 20°C	:	Not Tested
Specific Gravity - (SG)	:	1.01 - 1.05
Soluble in Water	:	Yes
Soluble in Other	:	Not Applicable
Other Data / Comments	:	No

These data references are typical for the product and not a specification

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## Section 11. Toxicological Information / Health Effects

Inhalation	:	May cause sensitization to nose and throat.
Skin contact	:	Corrosive : Red, burning sensation, skin damage, irritation and or dryness.
Eye contact	:	Corrosive : Possible long term damage, red eye, irritation, itchy, discomfort, pain.
Ingestion	:	Stomach cramping, discomfort and / or pain.
Specific effects	:	Non-reported or experienced, seek medical attention should symptoms not subside or worsen.

## Section 12. Ecological Information

Biodegradability	:	Contains readily biodegradable properties. This product can be successfully bio-remediated.
BioAccumulation	:	Not Likely
Eco Toxicity	:	Not tested, do not discharge large amounts of undiluted product directly into the environment.

## Section 13. Disposal Considerations

*In accordance with Local Regulations. In the event that disposal of material is conducted by a third party please ensure that the service provider is authorized and reputable. Please contact the manufacturer for additional information if required.*

Material Disposal	:	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.
Container Disposal	:	Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard if heated above the flash point. Do not puncture, cut or weld unclean drums. Send to drum recoverer or metal reclaimer.
Local Legislation	:	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

## Section 14. Transport Information : Road and Rail Only

### ADR / RID (Road / Rail)

UN Number	:	Not Applicable
Class	:	8
Item	:	Not Applicable
Additional Information	:	Will cause slipperty and corrosive spill.

## Section 15. Regulatory Information / EEC Classification

Warning Phrase	Caution	Symbol
Risk Phases	Harmful if swallowed .....	R22
	Toxic if swallowed .....	R25
	Can cause irritation to eye .....	R36
	Irritating to skin .....	R38
	Risk of serious damage to eye .....	R41
Safety Phases	Keep Out of Children's Reach.....	S2
	Keep container closed .....	S7
	When Using: Do Not Eat or Drink .....	S20
	Avoid Contact with Skin .....	S24
	Avoid Contact with Eyes .....	S25
	In Case of Contact : Wash Eye with water .....	S26
	Wear suitable protective clothing .....	S36
	If Swallowed : Seek Medical Advice .....	S46
Product Contains	:	Potassium Hydroxide
Additional Information	:	Only trained personnel should handle this product.
Certification	:	SANS 1828 / 2016 (FOOD GRADE) – INTERTEK EUROPE Auto Dish Wash No.1 (FG)

## Section 16. Other Information

Personnel using this product must be trained and advised on the best, safest and most effective means of application.

**Prepared by: RP Dippenaar**

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**Revised: January 2017**

The information contained herein is based on our best current technical knowledge of the product concerned and is given in good faith. The attention of end users is drawn to (amongst other things) the element of risk consequent to the use of the product for purposes other than that for which it was intended. In no way does the document remove the need for the user of this product to fully understand and apply statutory requirements. It is the user's sole responsibility to take due precautions relative to the use made of the product. All the information included herein is intended onto to assist the reader in fulfilling his or her statutory duty connected with the use of hazardous materials. This list of information must not be considered as exhaustive and does not exonerate the reader from taking other precautions described in documents other than those mentioned concerning the storage and use of the product for which he or she remains the sole person responsible.

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