

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. PRODUCT IDENTIFIER

Product name Hardwater Machine Dishwash Detergent  
Product number PN220

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

Main category use Professional use  
Use of the substance/mixture Cleaning/washing agents and additives

### 1.3. Details of the supplier of the safety data sheet

Supplier Wolf Laundry Ltd  
Unit 5B,  
Ashroyd Business Park,  
Platts Common,  
Barnsley  
South Yorkshire  
S74 9SB  
Tel: 0808 500 8043  
info@wolflaundry.co.uk

### 1.4. Emergency telephone number

Emergency telephone Wolf Laundry Ltd: Tel: 0808 500 8043 (Mon - Fri 8am-6pm)  
National emergency telephone number NHS Direct 111 (GB) National Poisons Information Service Tel: +44 344 892 0111 (UK) - Medical Professionals Only National Poisons Information Centre Tel: +353 (01) 809 2566 (Ireland) - Healthcare Professionals only (24 hour service)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1 H314

Serious eye damage/eye irritation, Category 1 H318

Full text of H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage. Causes serious eye damage.

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

### Hazard pictograms



Signal word Danger

Contains sodium hydroxide; caustic soda

Hazard statements H314 - Causes severe skin burns and eye damage.

Precautionary statements P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective clothing, eye protection, face protection, protective gloves.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	5 - 15	Skin Corr. 1A, H314
tetrasodium (1-hydroxyethylidene) bisphosphonic acid	CAS-No.: 3794-83-0 EC-No.: 223-267-7	5 - 10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

Specific concentration limits:		
Name	Product Identifier	Specific concentration limits:
sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	( 0.5 ≤C < 2) Skin Irrit. 2, H315 ( 0.5 ≤C < 2) Eye Irrit. 2, H319 ( 2 ≤C < 5) Skin Corr. 1B, H314 ( 5 ≤C ≤ 100) Skin Corr. 1A, H314

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General information	Call a physician immediately
Inhalation	Remove person to fresh air and keep comfortable for breathing.
Ingestion	Rinse mouth. Do not induce vomiting. Call a physician immediately.
Skin contact	Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately

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

Ingestion	Burns
Skin contact	Burns
Eye contact	Serious damage to eyes

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

Notes for the doctor Treat symptomatically.

#### 5.1. Extinguishing media

Suitable extinguishing media Water spray. Dry powder. Foam. Carbon dioxide

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

products in case of fire

Hazardous decomposition products in case of fire

Toxic fumes may be released.

### 5.3 Advice for firefighters

Protection during firefighting

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures

Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray

For emergency personnel

Protective equipment

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up

Take up liquid spill into absorbent material.

Other information

Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product

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

Storage conditions

Store locked up. Store in a well-ventilated place. Keep cool.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

National occupational exposure and biological limit values

No additional information available

Recommended monitoring procedures

No additional information available

Air contaminants formed

No additional information available

DNEL and PNEC

No additional information available

## Control banding

No additional information available

## 8.2. Exposure controls

### Protective equipment



Eye/face protection	Safety glasses
Skin and body protection	Wear suitable protective clothing
Hand protection	Protective gloves
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
Thermal hazards	No additional information available
Environmental exposure controls	Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Appearance	Liquid.
Colour	Yellow
Odour	No data available
pH	> 11.5
Evaporation rate	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition Temperature	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	No data available
Relative vapour density	No data available
Relative density	No data available
Density	1.12
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stability Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Conditions to avoid None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Materials to avoid No additional information available

### 10.6. Hazardous decomposition products

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity - oral Not classified

Acute toxicity - dermal Not classified

Acute toxicity - inhalation Not classified

Skin corrosion/irritation Causes severe skin burns.  
pH: > 11.5

Serious eye damage/irritation Causes serious eye damage.  
pH: > 11.5

Respiratory or skin sensitisation Not classified

Germ cell mutagenicity Not classified

Carcinogenicity Not classified

Reproductive toxicity Not classified

STOT-single exposure Not classified

STOT-repeated exposure Not classified

Aspiration hazard Not classified

### 12.1. Toxicity

Ecology general Before neutralisation, the product may represent a danger to aquatic organisms.

Hazardous to the aquatic environment, short-term (acute) Not classified

Hazardous to the aquatic environment, long-term (chronic) Not classified

Not rapidly degradable

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations





### 13.1. Waste treatment methods

#### Disposal methods

Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport Information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 1824	UN 1824	Not applicable	UN 1824	UN 1824
<b>14.2. UN proper shipping name</b>				
SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	Not applicable	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION
<b>Transport document description</b>				
UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E)	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II	Not applicable	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II
<b>14.3. Transport hazard class(es)</b>				
8 	8 	Not applicable  Not applicable	8 	8 
<b>14.4. Packing group</b>				
II	II	Not applicable	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Not applicable	Dangerous for the environment: No	Dangerous for the environment: No

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)


C5

Limited quantities (ADR)

1I

Excepted quantities (ADR)

E2

Packing instructions (ADR)	P001, IBC02
Mixed packing provisions (ADR)	MP15
Portable tank and bulk container instructions (ADR)	T7
Portable tank and bulk container special provisions (ADR)	TP2
Tank code (ADR)	L4BN
Tank special provisions (ADR)	TU42
Vehicle for tank carriage	AT
Transport category (ADR)	2
Hazard identification number (Kemler No.)	80
Orange plates	
Tunnel restriction code (ADR)	E
EAC code	2R
Transport by sea	
Limited quantities (IMDG)	1 L
Excepted quantities (IMDG)	E2
Packing instructions (IMDG)	P001
IBC packing instructions (IMDG)	IBC02
Tank instructions (IMDG)	T7
Tank special provisions (IMDG)	TP2
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-B
Stowage category (IMDG)	A
Segregation (IMDG)	SGG18, SG35
Properties and observations (IMDG)	Colourless liquid. Colourless liquid. Reacts with ammonium salts evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids
Air transport	
Not applicable	
Inland waterway transport	
Classification code (ADN)	C5
Limited quantities (ADN)	1 L
Excepted quantities (ADN)	E2
Carriage permitted (ADN)	T
Equipment required (ADN)	PP, EP
Number of blue cones/lights (ADN)	0
Rail transport	
Classification code (RID)	C5
Limited quantities (RID)	1 L
Excepted quantities (RID)	E2
Packing instructions (RID)	P001, IBC02

Mixed packing provisions (RID)	MP15
Portable tank and bulk container instructions (RID)	T7
Portable tank and bulk container special provisions (RID)	TP2
Tank codes for RID tanks (RID)	L4BN
Special provisions for RID tanks (RID)	TU42
Transport category (RID)	2
Colis express (express parcels) (RID)	CE6
Hazard identification number (RID)	80

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer



IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.