

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

### 1.1. Product Identifier

Product name	Wolf Flow Laundry Boost
Product number	7635/23293
UFI:	UFI: JG4P-POJE-C00G-H3N4

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

Identified uses	Alkali Booster
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### 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
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### 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 (SI 2019 No. 720)

Physical hazards	Met. Corr. 1 - H290
Health hazards	Skin Corr. 1A - H314 Eye Dam. 1 - H318
Environmental hazards	Not Classified

### 2.2. Label elements

#### Hazard pictograms



Signal word	Danger
Hazard statements	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
Precautionary statements	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 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 or shower.  
 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 in accordance with national regulations.

Contains	sodium hydroxide
Detergent labelling	< 5% phosphonates, < 5% polycarboxylates
Supplementary precautionary statements	P234 Keep only in original packaging. P260 Do not breathe vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P310 Immediately call a POISON CENTER/ doctor. P321 Specific treatment (see medical advice on this label). P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage. P405 Store locked up. P406 Store in a corrosion-resistant/... container with a resistant inner liner.

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>SODIUM HYDROXIDE</b>		<b>15-30%</b>
CAS number: 1310-73-2	EC number: 215-185-5	
<b>Classification</b>		
Met. Corr. 1 - H290		
Skin Corr. 1A - H314		
Eye Dam. 1 - H318		

The full text for all hazard statements is displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	Non-volatile liquid product.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. DO NOT induce vomiting. Get medical attention immediately. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing and rinse skin thoroughly with water. Chemical burns must be treated by a physician. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Inhalation	This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.
Skin contact	Burning pain and severe corrosive skin damage.
Eye contact	Severe irritation, burning and tearing. May cause blurred vision and serious eye damage. Corneal damage.

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

Notes for the doctor	No specific recommendations. Treat symptomatically. If in doubt, get medical attention promptly.
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## SECTION 5: Fire fighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

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

**Specific hazards** No unusual fire or explosion hazards noted.

**Hazardous combustion products** Does not decompose when used and stored as recommended.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up** Do not touch or walk into spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Provide adequate ventilation. Flush spilled material into suitable retaining areas or container with large quantities of water. Inform authorities if large amounts are involved. Neutralise with dilute acid where possible.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with the following materials: Acids. Avoid spilling. Avoid contact with skin and eyes. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

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

**Storage precautions** Keep above the chemical's freezing point to avoid rupturing the container. Store in tightly-closed, original container.

**Storage class** Corrosive storage.

### 7.3. Specific end use(s)

**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

Occupational exposure limits

#### SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

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

DNEL	Consumer - Inhalation; Long term local effects: 1 mg/m <sup>3</sup> Workers - Inhalation; Long term local effects: 1 mg/m <sup>3</sup> Industry - Inhalation; Long term local effects: 1 mg/m <sup>3</sup>
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## Sodium salts of [[[(phosphonomethyl)imino]bis[ethane-2,1-diyl]nitrilobis(methylene)]]tetrakisphosphonic acid (1-3 Na:1) (CAS: 68155-78-2)

DNEL	Industry - Oral; Long term systemic effects: 3.9 mg/kg bw/day Industry - Oral; Short term systemic effects: 3.9 mg/kg bw/day Consumer - Oral; Long term systemic effects: 1.9 mg/kg bw/day Consumer - Oral; Short term systemic effects: 1.9 mg/kg bw/day
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PNEC	-Fresh water; 0.52 mg/l -marine water; 0.052 mg/l -Sediment (Freshwater); 496 mg/kg sediment dw -Sediment (Marinewater); 49.6 mg/kg sediment dw -Soil; 174 mg/kg -STP; 20 mg/l
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## 1-Hydroxy Ethylidene-1,1 Diphosphonic Acid (CAS: 2809-21-4)

DNEL	Industry - Oral; Long term systemic effects: 13 mg/kg bw/day Consumer - Oral; Long term systemic effects: 6.5 mg/kg bw/day
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PNEC	-Fresh water; 0.136 mg/l -marine water; 0.0136 mg/l -Sediment (Freshwater); 59 mg/kg -Sediment (Marinewater); 5.9 mg/kg -Soil; 96 mg/kg -STP; 20 mg/l
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## 8.2. Exposure controls

### Protective equipment



Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	The following protection should be worn: Chemical splash goggles or face shield.
Hand protection	Wear protective gloves made of the following material: Butyl rubber, Neoprene, Nitrile rubber, Polyvinyl chloride (PVC).
Other skin and body protection	Provide eyewash station and safety shower. Wear appropriate clothing to prevent any possibility of skin contact. Impervious footwear must be worn.
Hygiene measures	Do not eat, drink or smoke when using this product.
Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

## SECTION 9: Physical and chemical properties

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

Appearance	Liquid.
Colour	Colourless.
Odour	Odourless.
pH	pH (diluted solution): 12-13 1%
Relative density	1.28 @ 20°C

Solubility(ies) Soluble in water.

## 9.2. Other information

Other information Not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity The following materials may react with the product: Acids.

### 10.2. Chemical stability

Stability Avoid contact with acids.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise. The following materials may react strongly with the product: Acids.

### 10.4. Conditions to avoid

Conditions to avoid Avoid contact with acids.

### 10.5. Incompatible materials

Materials to avoid Strong acids.

### 10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Inhalation This is unlikely to occur but symptoms similar to those of ingestion may develop. This product is strongly corrosive. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

Ingestion This product is strongly corrosive. Swallowing concentrated chemical may cause severe internal injury. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact This product is strongly corrosive. May cause serious chemical burns to the skin.

Eye contact This product is strongly corrosive. Causes severe burns. Dust or splashes from the mixture may cause permanent eye damage.

Acute and chronic health hazards This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns. EYE CONTACT: Causes -severe irritation and burns, possibly leading to permanent damage. Requires immediate medical attention. SKIN CONTACT: severe burns. INGESTION: burns to mouth and throat. Will attack tissue in the digestive system. ACUTE AND CHRONIC HEALTH EFFECTS: May cause chemical eye burns. Contact with concentrated chemical may cause severe skin damage. Swallowing concentrated chemical may cause severe internal injury.

### Toxicological information on ingredients.

#### Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 2,001.0 mg/kg)

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,001.0 mg/kg)

#### Sodium salts of [[[phosphonomethyl]imino]bis[ethane-2,1-diyl]nitrilobis(methylene)]]tetrakisphosphonic acid (1-3 Na:1)

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 5,839.0 mg/kg)

Species	Rat
ATE oral (mg/kg)	5,839.0
Acute toxicity - dermal	
Acute toxicity dermal (LD <sub>50</sub> mg/kg)	5,839.0
Species	Rat
ATE dermal (mg/kg)	5,839.0

#### 1-Hydroxy Ethylidene-1,1 Diphosphonic Acid

Acute toxicity - oral	
Acute toxicity oral (LD <sub>50</sub> mg/kg)	1,878.0
Species	Rat
ATE oral (mg/kg)	1,878.0
Acute toxicity - dermal	
Acute toxicity dermal (LD <sub>50</sub> mg/kg)	5,001.0
Species	Rabbit
ATE dermal (mg/kg)	5,001.0

## SECTION 12: Ecological information

**Ecotoxicity** Low acute toxicity to aquatic organisms. However, large or frequent spills may have hazardous effects on the environment.

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

Ecological information on ingredients.

#### SODIUM HYDROXIDE

Acute aquatic toxicity	
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 35-189 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 40.4 mg/l, Ceriodaphnia Dubia (Water flea)

#### Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate

Acute aquatic toxicity	
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: >100 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC <sub>50</sub> , 72 hours: >100 mg/l, Algae

Sodium salts of [[(phosphonomethyl)imino]bis[ethane-2,1-diylnitrilobis(methylene)]]tetrakisphosphonic acid (1-3 Na:1)

Acute aquatic toxicity	
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 573 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: >250 mg/l, Acartia tonsa (Copepod)

Acute toxicity - aquatic plants	EC <sub>50</sub> , 69 hours: 1.5 mg/l, Skeletonema costatum 1-Hydroxy Ethylidene-1,1 Diphosphonic Acid
Acute aquatic toxicity	
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 368 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 527 mg/l, Daphnia magna

## 12.2. Persistence and degradability

**Persistence and degradability** The product contains mainly inorganic substances which are not biodegradable. The methods for determining biodegradability are not applicable to inorganic substances. The other substances in the product are expected to be readily biodegradable.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

## 12.4. Mobility in soil

**Mobility** The product is soluble in water.

## 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

## 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of in accordance with Local Authority regulations as special waste according to The Control of Special Waste Regulations 1996.

EURAL Code

## SECTION 14: Transport Information

**Road transport notes** TREM CARD: C2

### 14.1. UN number

UN No. (ADR/RID) 1824

UN No. (IMDG) 1824

UN No. (ICAO) 1824

UN No. (ADN) 1824

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID) SODIUM HYDROXIDE SOLUTION

Proper shipping name (IMDG) SODIUM HYDROXIDE SOLUTION

Proper shipping name (ICAO) SODIUM HYDROXIDE SOLUTION

Proper shipping name (ADN) SODIUM HYDROXIDE SOLUTION

### 14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C5

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels



#### 14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

ADN packing group II

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

#### 14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 2

Emergency Action Code 2R

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### SECTION 15: Regulatory Information

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

Danish product registration number

Danish national regulations

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

Revision comments Revision is due to change of UFI number

Revision date 07/07/2021

Revision 5

Supersedes date 14/01/2020

SDS number 7635/23293

Hazard statements in full  
H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.