



# CHEMI-KAL

A division of Worcestershire Chemicals Ltd

## MATERIAL SAFETY DATA SHEET Powerforce

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### Section 1: Identification of the substance/mixture and of the company/undertaking Version 4: 15/11/2021

#### Product identifier

1.1. Product name: **POWERFORCE (Food grade heavy duty degreaser/cleaner)**  
**POWERFORCE is formulated for use in the food industry.**

Product code: PHEV

1.2. **Relevant identified uses of the substance or mixture and uses advised against**  
Company name: Worcestershire Chemicals Ltd

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification under CHIP: C: R34

Classification under CLP: Skin Corr. 1B: H314

Most important adverse effects: Causes burns.

#### 2.2. Label elements

Label elements under CLP:

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

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



Precautionary statements: P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405: Store locked up.

P501: Dispose of contents/container to hazardous or special waste collection point.

Label elements under CHIP:

Hazard symbols: Corrosive.



Risk phrases: R34: Causes burns.

Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### 2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.1. Mixtures

Hazardous ingredients:

SODIUM HYDROXIDE

EINECS CAS CHIP Classification CLP Classification Percent

215-185-5 1310-73-2 C: R35 Skin Corr. 1A: H314 1-10%

DISODIUM METASILICATE

229-912-9 6834-92-0 C: R34; Xi: R37 Skin Corr. 1B: H314; STOT SE 3: H335 1-10%

2-BUTOXYETHANOL

203-905-0 111-76-2 Xn: R20/21/22; Xi: R36/38 Acute Tox. 4: H332; Acute Tox. 4: H312;

Acute Tox. 4: H302; Eye Irrit. 2: H319;

Skin Irrit. 2: H315

1-10%

### Section 4: First aid measures

#### 4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.

Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

### **Section 5: Fire-fighting measures**

#### **5.1. Extinguishing media**

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

Exposure hazards: Corrosive.

#### **5.3. Advice for fire-fighters**

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### **Section 6: Accidental release measures**

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

Personal precautions: Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

#### **6.2. Environmental precautions**

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

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

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### **6.4. Reference to other sections**

Reference to other sections: Refer to section 8 of SDS.

### **Section 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Do not handle in a confined space. Avoid the formation or spread of mists in the air.

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

Storage conditions: Store in cool, well-ventilated area. Keep container tightly closed.

### **7.3. Specific end use(s)**

Specific end use(s): No data available.

## **Section 8: Exposure controls/personal protection**

### **8.1. Control parameters**

Hazardous ingredients:

SODIUM HYDROXIDE

Respirable dust Workplace exposure limits:

State 8-hour TWA 15 min. STEL 8-hour TWA 15 min. STEL

UK - 2 mg/m<sup>3</sup>

2-BUTOXYETHANOL

UK 25 ppm 50 ppm

DNEL/PNEC Values

DNEL / PNEC No data available.

### **8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

## **Section 9: Physical and chemical properties**

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

State: Liquid

Colour: Yellow

Odour: Barely perceptible odour

Solubility in water: Miscible in all proportions

Viscosity: Non-viscous

Boiling point/range°C: >35 Flash point°C: >93

### **9.2. Other information**

Other information: No data available.

## **Section 10: Stability and reactivity**

### **10.1. Reactivity**

Reactivity: Stable under recommended transport or storage conditions.

### **10.2. Chemical stability**

Chemical stability: Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

### **10.4. Conditions to avoid**

Conditions to avoid: Heat.

### **10.5. Incompatible materials**

Materials to avoid: Strong acids.

## **10.6. Hazardous decomposition products**

### **Section 11: Toxicological information**

#### **11.1. Information on toxicological effects**

Hazardous ingredients:

SODIUM HYDROXIDE

IPR MUS LD50 40 mg/kg

ORL RBT LDLO 500 mg/kg

DISODIUM METASILICATE

ORL MUS LD50 770 mg/kg

ORL RAT LD50 1153 mg/kg

2-BUTOXYETHANOL

IVN RAT LD50 307 mg/kg

ORL MUS LD50 1230 mg/kg

ORL RAT LD50 470 mg/kg

Relevant effects for mixture:

Effect Route Basis

Corrosivity OPT INH DRM Hazardous: calculated

Symptoms / routes of exposure

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

### **Section 12: Ecological information**

#### **12.1. Toxicity**

Ecotoxicity values: No data available.

#### **12.2. Persistence and degradability**

Persistence and degradability: Biodegradable.

#### **12.3. Bioaccumulative potential**

Bioaccumulative potential: No bioaccumulation potential.

#### **12.4. Mobility in soil**

Mobility: Readily absorbed into soil.

#### **12.5. Results of PBT and vPvB assessment**

PBT identification: This product is not identified as a PBT/vPvB substance.

#### **12.6. Other adverse effects**

Other adverse effects: Negligible ecotoxicity.

### **Section 13: Disposal considerations**

#### **13.1. Waste treatment methods**

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### **Section 14: Transport information**

##### **14.1. UN number**

UN number: UN1760

##### **14.2. UN proper shipping name**

Shipping name: CORROSIVE LIQUID, N.O.S.

##### **14.3. Transport hazard class(es)**

Transport class: 8 14.4. Packing group

Packing group: II

##### **14.5. Environmental hazards**

Environmentally hazardous: No Marine pollutant: No

##### **14.6. Special precautions for user**

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

#### **Section 15: Regulatory information**

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

##### **15.2. Chemical Safety Assessment**

#### **Section 16: Other information**

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* Indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R34: Causes burns.

R35: Causes severe burns.

R36/38: Irritating to eyes and skin.

R37: Irritating to respiratory system.

Legend to abbreviations: PNEC = predicted no effect concentration

DNEL = derived no effect level

LD50 = median lethal dose

LC50 = median lethal concentration

EC50 = median effective concentration IC50 = median inhibitory concentration dw = dry weight bw = body weight cc = closed cup oc = open cup

MUS = mouse  
GPG = guinea pig  
RBT = rabbit  
HAM = hamster  
HMN = human  
MAM = mammal  
PGN = pigeon  
IVN = intravenous  
SCU = subcutaneous  
SKN = skin  
DRM = dermal  
OCC = ocular/corneal  
OPT = optical  
INH = inhalation  
PCP = physico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.