



# CHEMI-KAL

A division of Worcestershire Chemicals Ltd

## MATERIAL DATA SAFETY SHEET

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

#### 1.1 Product identifier

- Product Name: Peracetic Acid 5%
- EC Number: 201-186-8
- CAS Number: 79-21-0
- REACH Registration Number: Not available

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

- Use of the substance/mixture: Biocide, Bactericide

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

- Name of Supplier: Worcestershire Chemicals Ltd

### **SECTION 2 Hazards identification**

#### 2.1 Classification of the substance or mixture

- CLP: Org. Perox. EF, H242, Met. Corr. 1, H290, Acute Tox. 4, H302, Acute Tox. 4, H312, Acute Tox. 4, H332, Skin Corr. 1A, H314, STOT SE 3, H335, Aquatic Chronic 1, H410

#### 2.2 Label elements



- Signal Word: Danger

- Hazard statements

Heating may cause a fire. May be corrosive to metals.

Harmful if swallowed. Harmful in contact with skin.

Harmful if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.

- Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Keep only in original container.

Avoid release to the environment.

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

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

### 2.3 Other hazards

- Corrosive to the respiratory tract.

## SECTION 3 Composition/information on ingredients

### 3.1 Substances

- peracetic acid . . . %

CAS Number: 79-21-0

EC Number: 201-186-8

Index No.: 607-094-00-8

REACH Registration Number:

% (weight): 4.5-5.5%

Concentration: 4.5-5.5%

Categories: Flam. Liq. 3 Org. Perox. D Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin

Corr. 1A Aquatic Acute 1

H Statements: H226,H242,H332,H312,H302,H314,H400

Symbols: GHS02,GHS05,GHS07,GHS09- hydrogen peroxide solution ... %

CAS Number: 7722-84-1

EC Number: 231-765-0

Index No.: 008-003-00-9

REACH Registration Number: 01-2119485845-22-xxxx

% (weight): 22-28%

Concentration: 22-28%

Categories: Ox. Liq. 1 Acute Tox. 4 Acute Tox. 4 Skin Corr. 1A

H Statements: H271,H332,H302,H314

Symbols: GHS03,GHS05,GHS07- acetic acid = %

CAS Number: 64-19-7

EC Number: 200-580-7

Index No.: 607-002-00-6

REACH Registration Number: 01-2119475328-30-xxxx

% (weight): 6-11%

Concentration: 6-11%

Categories: Flam. Liq. 3 Skin Corr. 1A  
H Statements: H226,H314  
Symbols: GHS02,GHS05

### 3.2 Composition

## **SECTION 4 First aid measures**

### 4.1 Description of first aid measures

- Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes

## **SECTION 4 First aid measures**

If eye irritation persists: Get medical advice/attention.

- Contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF exposed or concerned: Get medical advice/attention.

- Ingestion

Rinse out mouth and then drink plenty of water.

Obtain medical attention if symptoms occur.

- Inhalation

Remove patient to fresh air

If breathing is difficult, oxygen should be given by a trained person

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

- May disturb the eyes, skin and mucous membranes
- Causes burns
- Causes dizziness, confusion, headache or stupor

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

## **SECTION 5 Fire-fighting measures**

### 5.1 Extinguishing media

- In case of fire: use water, carbon dioxide or dry agent for extinction

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

- Oxygen
- Oxygen release will intensify the fire. If heated, containers may burst due to gas evolution.
- Carbon oxides may be formed
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

### 5.3 Advice for firefighters

- Evacuate the area and keep personnel upwind
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- In the event of fire, wear self-contained breathing apparatus.
- Dispose of contents/container to an authorised waste collection point

## **SECTION 6 Accidental release measures**

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

- Evacuate the area and keep personnel upwind
- Use personal protective equipment as required.

#### 6.2 Environmental Precautions

- Do not discharge into drains or the environment, dispose to an authorised wastecollection point
- If the product contaminates rivers and lakes or drains inform respective authorities.

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

- Neutralise with Soda ash
- Absorb spillage in inert material and shovel up
- Clean spillage area thoroughly with plenty of water.
- Collect as much as possible in clean container for reuse or disposal

#### 6.4 Reference to other sections

- See Section 13

### **SECTION 7 Handling and storage**

#### 7.1 Precautions for safe handling

- Do not breathe dust/fume/gas/mist/vapours/spray.
- Do not get in eyes, on skin, or on clothing.
- Absorb spillage to prevent material damage.
- Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
- Eyewash bottles should be available

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

- Keep cool. Protect from sunlight.
- Do not expose to temperatures exceeding 50°C/ 122°F.
- Keep away from oxidisers, heat, flames or ignition sources
- Protect from heat
- Keep in an area equipped with acid resistant flooring.
- Keep in vented containers
- Keep in a cool place away from reducing agents
- Keep in a cool place away from alkalis (strong bases)
- Keep away from oxidisers, heat, flames or ignition sources

#### 7.3 Specific end use(s)

- None assigned

### **SECTION 8 Exposure controls/personal protection**

#### 8.1 Control parameters

Hydrogen peroxide (100%):

- WEL (long term) 1.4 mg/m<sup>3</sup>
- WEL (long term) 1 ppm
- WEL (short term) 2.8 mg/m<sup>3</sup>
- WEL (short term) 2 ppm

#### 8.2 Exposure controls

- Ensure eye bath is nearby.
- Ensure working area is well ventilated.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wear respiratory protection.
- Wear suitable protective clothing, including eye/face protection and gloves (rubber are recommended)
- Wear goggles giving complete eye protection

## **SECTION 9 Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

- Appearance: Liquid, colourless
- Odour: Characteristic odour
- Odour threshold; Not determined
- pH: 1-1.5
- Melting point/Range: >28°C

## **SECTION 9 Physical and chemical properties**

- Boiling Point/Range: >60°C with decomposition
- Flashpoint: >96°C after DIN 51584
- Evaporation Rate: Not determined
- Flammability: Flammable
- Upper Explosive Limit: Not determined
- Lower Explosive Limit: Not determined
- Vapour Pressure: Not determined
- Vapour Density: Not determined
- Relative density 1.05-1.15
- Solubility in water: Miscible with water
- Partition Coefficient (n-Octanol/Water): Not determined
- Decomposition temperature >=60°C self accelerating decomposition
- Autoignition Temperature Not determined
- Viscosity: Not determined
- Explosive Properties: Not determined
- Oxidising Properties: Oxidising

### 9.2 Other information

- Corrosive to metals

## **SECTION 10 Stability and reactivity**

### 10.1 Reactivity

- May decompose on exposure to oxidizing substances
- May decompose on exposure to heat and light

### 10.2 Chemical stability

- Considered stable under normal conditions

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

- Protect from sunlight.

- Keep away from heat and light

#### 10.5 Incompatible materials

- metals and Oxidising agents
- Organic materials
- Bases
- Reducing agent

#### 10.6 Hazardous Decomposition Products

- Oxygen
- Acetic acid
- Carbon oxides may be formed

### **SECTION 11 Toxicological information**

#### 11.1 Information on toxicological effects

- LD50 (oral, rat) 1859 mg/kg
- LC50 (inhalation, rat) 4.08 mg/l/4h
- LD50 (skin, rabbit) 1040 mg/kg
- Causes severe skin burns and eye damage.
- Harmful if swallowed, in contact with skin or if inhaled
- May cause respiratory irritation.

### **SECTION 12 Ecological information**

#### 12.1 Toxicity

- EC50: 38.6 mg/l (activated Sludge; 3 h)
- EC50 (Daphnia magna) 0.73 mg/l (48 hr)
- LC50 (rainbow trout) 0.53 mg/l (96 hr)

#### 12.2 Persistence and degradability

- Readily biodegradable

#### 12.3 Bioaccumulation Potential

- Low bioaccumulation potential

#### 12.4 Mobility in soil

- No information available

#### 12.5 Results of PBT and vPvB assessment

- No information available

#### 12.6 Other Adverse Effects

- Very toxic to aquatic life with long lasting effects.

### **SECTION 13 Disposal considerations**

#### 13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation

## **SECTION 14 Transport information**

### **14.1 UN Number**

- UN No.: 3149

### **14.2 UN Proper Shipping Name**

- Proper Shipping Name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED

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

- Hazard Class: 5.1

### **14.4 Packing group**

- Packing Group: II

### **14.5 Environmental hazards**

- Marine pollutant

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

- Tunnel Code: E

### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**

- Not applicable.

### **14.8 Emergency Action Code**

- Proper Shipping Name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED  
- EAC: 2P

### **14.9 Road/Rail (ADR/RID)**

- Proper Shipping Name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED  
- ADR UN No.: 3149  
- ADR Hazard Class: 5.1  
- ADR/RID No.: 58

### **14.10 Sea (IMDG)**

- Proper Shipping Name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED  
- IMDG UN No.: 3149  
- IMDG Hazard Class: 5.1  
- IMDG Pack Group.: II  
- IMDG MFAG: Not available

### **14.11 Air (ICAO/IATA)**

- Proper Shipping Name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED

- ICAO UN No.: 3149
- ICAO Hazard Class: 5.1
- ICAO Packing Group: II

## **SECTION 15 Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP)

15.2 Chemical Safety Assessment

- A REACH chemical safety assessment has not been carried out

## **SECTION 16 Other information**

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H226: Flammable liquid and vapour. H242: Heating may cause a fire. H271: May cause fire or explosion; strong oxidiser. H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H332: Harmful if inhaled. H400: Very toxic to aquatic life.

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage, and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP)

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)