

# HYDRO CLEANSE | SAFETY DATA SHEET

Compilation Date: 12/05/2015 Revision: 1



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

### 1.1 Product Identifier

**Product Name:** HYDRO.CLEANSE  
**CAS Number:** 79-21-0  
**EINECS Number:** 201-186-8

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

**Use of substance / mixture:** Industrial biocide for evaporative cooling, hot and cold water services and process waters.

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

**Company:** Dejex Supplies Ltd  
7 Millfield Road, Donington, Spalding, Lincs. PE11 4UR  
**Tel:** 01775 821800  
**Email:** sales@dejex.co.uk

### 1.4 Emergency Telephone Number

## SECTION 2 : Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification under CLP:** Acute Tox. 4: H302; Skin Corr. 1B: H314  
**Classification under CHIP:** C: R34  
**Most important adverse effects:** Harmful if swallowed. Causes severe skin burns and eye damage.

### 2.2 Label Elements

**Classification under CLP:**  
**Hazard Statements:** H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.

**Signal Words:** Danger

**Hazard Pictograms:** GHS05: Corrosion  
GHS07: Exclamation mark



### Precautionary Statements:

P264: Wash with soap and water thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P270: Do not eat, drink or smoke when using this product.  
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or Doctor.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321: Specific treatment (see information on this label).  
P330: Rinse mouth.  
P405: Store locked up.  
P501: Dispose of contents/container to an approved waste facility.

### 2.3 Other Hazards

**PBT:** This product is not identified as a PBT substance.

## SECTION 3 : Composition/Information on Ingredients

### 3.2 Mixtures

#### Hazardous Ingredients:

PERACETIC ACID - REACH registered number(s): 01-2119531330-56-XXXX

EINECS	CAS	CHIP Classification	CLP Classification	Percent
201-186-8	79-21-0		Acute Tox. 4: H302; Skin Corr. 1B: H314; Acute Tox. 4: H332; Acute Tox. 4: H312; Aquatic Acute 1: H400; Org. Perox. EF: H242; Flam. Liq. 3: H226	1-10%

ACETIC ACID - REACH registered number(s): 01-2119475328-30-XXXX

EINECS	CAS	CHIP Classification	CLP Classification	Percent
200-580-7	64-19-7		Flam. Liq 3: H226; Skin Corr. 1A: H314	10-30%

HYDROGEN PEROXIDE SOLUTION - REACH registered number(s): 01-21194855845-22-XXXX

EINECS	CAS	CHIP Classification	CLP Classification	Percent
231-765-0	7722-84-1		Ox. Liq. 1: H271; Acute Tox. 4: H332; Acute Tox. 4: H302; Skin Corr. 1A: H314	10-30%

## 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:

Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Blistering may occur. Severe burns may occur.

#### Eye Contact:

There may be irritation and redness. There may be severe pain. The eyes may water profusely. Corneal burns may occur.

#### Ingestion:

There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting. Blood may be vomited.

#### Inhalation:

There may be irritation of the throat with a feeling of tightness in the chest. There may be coughing and a sore throat. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness.

#### Delayed/Immediate effects:

Immediate effects can be expected after short-term exposure.

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

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

### SECTION 5 : Fire Fighting Measures

- 5.1 Extinguishing Media** Carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture**  
**Exposure Hazards:** Corrosive. In combustion decomposes to produce oxygen that intensifies fire.
- 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:** Refer to section 8 of SDS for personal protection details.
- 6.2 Environmental precautions**  
**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.
- 6.3 Methods and material of containment and cleaning up**  
**Clean up procedures:** Transfer to a suitable container. Wash down the drain with large amounts of water.
- 6.4 Reference to other sections** Refer to section 8 of SDS.

### SECTION 7 : Handling and storage

- 7.1 Precautions for safe handling**  
**Handling requirements:** Ensure there is sufficient ventilation of the area.  
Avoid direct contact with the substance.
- 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)** No data available.

### SECTION 8 : Exposure controls/personal protection

- 8.1 Hazardous ingredients:**  
HYDROGEN PEROXIDE SOLUTION - 100%  
**Workplace exposure limits:** Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1.4 mg/m3	2.8 mg/m3		

- 8.1 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:	Protective gloves.
Eye protection:	Safety goggles. Face-shield. Ensure eye bath is to hand.
Skin protection:	Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. PVC apron covering the tops of the boots. Ensure safety shower is to hand.

## SECTION 9 : Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

State:	Liquid		
Colour:	Colourless		
Odour:	Irritating odour		
Oxidising:	Oxidising (by EC criteria)		
Solubility in water:	Soluble		
Viscosity:	Non-viscous		
Boiling point/range °C :	99	Flash point °C :	>93
Vapour pressure :	22 mg Hg	Relative density :	1.10-1.12
pH :	<1		

### 9.2 Other information

Other information:	No data available.
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## SECTION 10 : Stability and reactivity

- 10.1 Reactivity** Stable under recommended transport or storage conditions,
- 10.2 Chemical stability**
- 10.3 Possibility of 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 bases. Amines. Finely powdered metals.
- 10.6 Hazardous decomposition products**

## SECTION 11 : Toxicological information

### 11.1 Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
ORL	RAT	LD50	1922	mg/kg

#### Hazardous ingredients:

##### PERACETIC ACID

ORL	RAT	LC50	66	mg/kg
ORL	RAT	LC50	1922	mg/kg

**HYDROGEN PEROXIDE SOLUTION 100%**

ORL	MUS	LD50	2	mg/kg
ORL	RAT	LD50	376	mg/kg
SKN	RAT	LD50	4060	mg/kg

**Relevant effects for mixture:**

Effect	Route	Basis
Corrosivity	OPT INH DRM	Hazardous: calculated

**Symptoms / routes of exposure****Skin contact:**

Irritation or pain may occur at the site of contact, There may be redness or whiteness of the skin in the area of exposure.  
Blistering may occur. Severe burns may occur.

**Eye contact:**

There may be irritation and redness. There may be severe pain. The eyes may water profusely. Corneal burns may occur.

**Ingestion:**

There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting. Blood may be vomited.

**Inhalation:**

There may be irritation of the throat with a feeling of tightness in the chest. There may be coughing and a sore throat. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness.

**Delayed/Immediate effects:**

Immediate effects can be expected after short-term exposure.

**SECTION 12 : Ecological information****12.1 Toxicity****Hazardous ingredients:****PERACETIC ACID**

DAPHNIA	48H EC50	0.73	mg/l
FISH	96H LC50	1.6	mg/l

**HYDROGEN PEROXIDE SOLUTION 100%**

FISH Fathead Minnow	96H LC50	22-33	mg/l
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**12.2 Persistence and degradability**

Rapidly biodegradable.

**12.3 Bioaccumulative potential**

No bioaccumulative 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 substance.

**12.6 Other adverse effects****Other adverse effects:**

Do not allow to enter rivers or lakes.

**SECTION 13 : Disposal considerations****13.1 Waste treatment methods****Disposal operations:**

Transfer to a suitable container and arrange for collection by specialised disposal company. Do not allow entry to drains or waterways.  
Disposal to a special waste disposal plant, in accordance with local council regulations.

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

## SECTION 14 : Transport information

<b>14.1</b>	<b>UN number</b>	
	UN number:	UN3149
<b>14.2</b>	<b>UN proper shipping name</b>	
	Shipping name:	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
<b>14.3</b>	<b>Transport hazard class(es)</b>	5.1 (8)
<b>14.4</b>	<b>Packaging group</b>	
	Packaging group:	II
<b>14.5</b>	<b>Environmental hazards</b>	
	Environmentally hazardous:	No
	Marine pollutant:	No
<b>14.6</b>	<b>Special precautions for user</b>	
	Special precautions:	No special precautions
	Tunnel code:	E
	Transport category:	2

## SECTION 15 : Regulatory information

<b>15.1</b>	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>15.2</b>	<b>Chemical Safety Assessment</b>	
	Chemical Safety Assessment:	A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## SECTION 16 : Other information

<b>Other information:</b>	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.
<b>Phrases used in s.2 and 3:</b>	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. R34: Causes burns.
<b>Legal disclaimer:</b>	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.