



## DC1 Deck Clean

Revision 1

Revision date 2014-12-12

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

#### 1.1. Product identifier

Product name	DC1 Deck Clean
Product code	HPC 233

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

Description	No further hazards known.
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#### 1.3. Details of the supplier of the safety data sheet

Company	Hydron Protective Coatings Ltd
Address	Unit 7 Phoenix Road Wednesfield Wolverhampton WV11 3PX
Web	<a href="http://www.hydronpc.co.uk">www.hydronpc.co.uk</a>
Telephone	01902 450 950
Fax	01902 451 050
Email	enquiries@hydronpc.co.uk

#### 1.4. Emergency telephone number


Emergency telephone number	01902 450950
Company	Hydron protective Coatings Ltd

### SECTION 2: Hazards identification

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

2.1.1. Classification - 1999/45/E C	C; R34 Xi; R37 Symbols: C: Corrosive.
Main hazards	Causes burns. Irritating to respiratory system.

#### 2.2. Label elements

Symbols	The product is classified in accordance with 67/548/EEC. C: Corrosive. 
Risk phrases	R34 - Causes burns. R37 - Irritating to respiratory system.
Safety phrases	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 - After contact with skin, wash immediately with plenty of water. 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).

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## 2.3. Other hazards

Other hazards	No further hazards known.
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## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Hydrochloric acid...%	017-002-01-X		231-595-7		30 - 40%	C; R34 Xi; R37

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Inhalation of vapour may cause shortness of breath. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Rinse mouth thoroughly. Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

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

Inhalation	Fumes may cause irritation to mucous membranes.
Eye contact	Causes burns.
Skin contact	Causes burns.
Ingestion	Can cause burns to the respiratory tract.

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

	Treat symptomatically. If ever unsure, seek medical attention/advice immediately.
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## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

	Non-combustible.
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## SECTION 6: Accidental release measures

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

	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
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## 6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe. Advise local authorities if large spills cannot be contained.
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## 6.3. Methods and material for containment and cleaning up

	For small spills: Dilute with water. For large spills: Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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## 6.4. Reference to other sections

	See section 7 for handling information. See section 8 for personal protection information. See section 13 for disposal information.
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## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.
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## 7.3. Specific end use(s)

	No further relevant information available.
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## Suitable packaging

	Plastic containers.
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**SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## 8.1.1. Exposure Limit Values

Hydrochloric acid...%	WEL 8-hr limit ppm: 5	WEL 8-hr limit mg/m3: 8
	WEL 15 min limit ppm: 1	WEL 15 min limit mg/m3: 2
Hydron Protective Coating Limited - DC1	WEL 8-hr limit ppm: 1	WEL 8-hr limit mg/m3: 2
	WEL 15 min limit ppm: 5	WEL 15 min limit mg/m3: 8

## 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

Ensure adequate ventilation of the working area.
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## Eye / face protection

Approved safety goggles.
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## Skin protection -

Chemical resistant gloves (PVC).
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## Handprotection

Wear suitable protective clothing.
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## Skin protection - Other

Wear suitable respiratory equipment when necessary.
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## Respiratory protection

## Thermal hazards

No further relevant information available.
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**SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Colourless
Odour	Pungent
Odour threshold	No data available
pH	< 4
Melting point	-33
Boiling point	57
Flash point	No data available
Evaporation rate	No data available
Flammability limits	No data available
Vapour Flammability	No data available
Upper Explosive Limit	No data available
Lower Explosive Limit	No data available
Vapour pressure	120mb at 15 degrees celsius
Vapour density	1.27
Relative density	1.18
Partition coefficient (n-octanol/water)	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive	No data available
Oxidising	No data available

## Water solubility

Soluble in water.

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

No further relevant information available.

## 10.2. Chemical stability

Product will lose strength over time.

## 10.3. Possibility of hazardous reactions

Acids. Alkali metals. Alkaline solution. Bases. Oxidising agents.

## 10.4. Conditions to avoid

See handling and storage (section 7).

## 10.5. Incompatible materials

No further relevant information available.

## 10.6. Hazardous decomposition products

Reacts with many metals to liberate highly flammable hydrogen gas.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity	Inhalation of vapour may cause shortness of breath. Irritating to eyes and respiratory system. Seek medical attention if irritation or symptoms persist.
Skin corrosion/irritation	Classified as skin corrosive.
Serious eye damage/irritation	Causes burns.
Respiratory or skin sensitisation	No sensitising effects known.
Germ cell mutagenicity	No mutagenic effects known.

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## 11.1. Information on toxicological effects

Carcinogenicity	No carcinogenic effects known.
Reproductive toxicity	No reproductive toxicity effects known.
STOT-single exposure	No target organ toxicity effects known.
STOT-repeated exposure	No target organ toxicity effects known.
Aspiration hazard	No aspiration hazards known.

## 11.1.4. Toxicological Information

Hydrochloric acid...%	Inhalation Rat LC50/30min: 4.5mg/l Oral Mouse LD50: 1449mg/kg Dermal Rabbit LD50: >5010mg/kg	Oral Rat LD50: 700mg/kg Inhalation Mouse LC50/1 h: 1.66mg/l
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Toxic to aquatic forms.

## SECTION 12: Ecological information

## 12.1. Toxicity

Hydrochloric acid...%	Algae EC50/120h: 25.5mg/l
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Toxic to aquatic forms. 280ppm in freshwater and 100ppm in saltwater can be lethal. Lowering of pH below 5 will induce fatalities in aquatic life.

## 12.2. Persistence and degradability

No further relevant information available.

## 12.3. Bioaccumulative potential

No further relevant information available.

## 12.5. Results of PBT and vPvB assessment

No further relevant information available.

## 12.6. Other adverse effects

No further relevant information available.

## SECTION 13: Disposal considerations

## General information

Dispose of in compliance with all local and national regulations.

## Disposal methods

Dispose of in compliance with all local and national regulations.

## Further information

Do not empty into drains/sewage system.

## SECTION 14: Transport information

## Hazard pictograms



## 14.1. UN number

UN1789

## 14.2. UN proper shipping name

HYDROCHLORIC ACID

## 14.3. Transport hazard class(es)

ADR/RID

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<b>14.3. Transport hazard class(es)</b>	
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-
<b>14.4. Packing group</b>	
Packing group	II
<b>14.5. Environmental hazards</b>	
Environmental hazards	Yes
Marine pollutant	Yes
<b>ADR/RID</b>	
Hazard ID	80
Tunnel Category	(E)
<b>IMDG</b>	
EmS Code	F-A S-B
<b>IATA</b>	
Packing Instruction (Cargo)	855
Maximum quantity	30 L
Packing Instruction (Passenger)	851
Maximum quantity	1 L
<b>SECTION 15: Regulatory information</b>	
<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
Regulations	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
<b>15.2. Chemical safety assessment</b>	
	A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.
<b>SECTION 16: Other information</b>	
<b>Other information</b>	
Revision	This document differs from the previous version in the following areas:. 1 - Description. 2 - Other hazards. 4 - Inhalation. 4 - Eye contact. 4 - Skin contact. 4 - Ingestion. 4 - 4.3. Indication of any immediate medical attention and special treatment needed. 6 - 6.4. Reference to other sections. 7 - 7.3. Specific end use(s). 8 - 8.2.2. Individual protection measures. 8 - Skin protection - Other. 8 - Thermal hazards. 9 - 9.1. Information on basic physical and chemical properties (State). 9 - 9.1. Information on basic physical and chemical properties (Colour).

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## Other information

	<p>9 - 9.1. Information on basic physical and chemical properties (Odour).</p> <p>9 - 9.1. Information on basic physical and chemical properties (PH).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Flash point).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Flammability limits).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Autoignition temperature).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Explosive).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Oxidising).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Viscosity).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Evaporation rate).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Upper Explosive Limit).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Lower Explosive Limit).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Decomposition temperature).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Partition coefficient (n-octanol/water)).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Odour threshold).</p> <p>10 - 10.1. Reactivity.</p> <p>10 - 10.5. Incompatible materials.</p> <p>11 - Skin corrosion/irritation.</p> <p>11 - Respiratory or skin sensitisation.</p> <p>11 - Germ cell mutagenicity.</p> <p>11 - Carcinogenicity.</p> <p>11 - Reproductive toxicity.</p> <p>11 - Serious eye damage/irritation.</p> <p>11 - STOT-single exposure.</p> <p>11 - STOT-repeated exposure.</p> <p>11 - Aspiration hazard.</p> <p>12 - 12.2. Persistence and degradability.</p> <p>12 - 12.3. Bioaccumulative potential.</p> <p>12 - 12.5. Results of PBT and vPvB assessment.</p> <p>12 - 12.6. Other adverse effects.</p> <p>13 - Further information.</p> <p>15 - 15.2. Chemical safety assessment.</p> <p>15 - Regulations.</p>
Text of risk phrases in Section 3	<p>R34 - Causes burns.</p> <p>R37 - Irritating to respiratory system.</p>

## Further information

	<p>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.</p>
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