



Pakex (UK) Plc, No 1, Prime Point, Bessemer Road, Welwyn Garden City, Herts, AL7 1FE  
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## SAFETY DATA SHEET

according to Regulation (EU) 2015/830

Page 1/8

### Heavy Duty DP17

Revision 34  
Revision date 2016-09-23

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

##### 1.1. Product identifier

Product name	Heavy Duty DP17
Product code	QAFS002

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

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; ----- [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); ----- [SU21] Consumer uses: Private households (= general public = consumers);
Description	A moderately alkaline exterior cleaner, specially formulated for the routine cleaning of HST trains at dilutions of between 1 part DP17 to 20 parts water and 1 part DP17 to 100 parts water depending on the degree of soiling to be removed.

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

Company	Pakex (UK) Plc,
Address	No 1, Prime Point, Bessemer Road, Welwyn Garden City, Herts, AL7 1FE
Web	<a href="http://www.pakexuk.com">www.pakexuk.com</a>
Telephone	Tel: 01707 384858
Fax	Fax: 01707 332838
Email	<a href="mailto:sales@pakexuk.com">sales@pakexuk.com</a>

##### 1.4. Emergency telephone number

Emergency telephone number	01707 384858 8.30am to 17.00pm
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#### SECTION 2: Hazards identification

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

2.1.1. Classification - 1999/45/EC	Xi; R41 Symbols: Xi: Irritant.
Main hazards	Risk of serious damage to eyes.
2.1.2. Classification - EC 1272/2008	Eye Dam. 1: H318; Aquatic Chronic 4: H413;


##### 2.2. Label elements

## Heavy Duty DP17

Revision 34

Revision date 2016-09-23

## 2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Eye Dam. 1: H318 - Causes serious eye damage. Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life.
Precautionary Statement: Prevention	P102 - Keep out of reach of children. P103 - Read label before use. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor/ .
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved waste contractor.

## 2.3. Other hazards

Other hazards	PBT not identified as a PBT substance.
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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	M-factor.
CITRIC ACID MONOHYDRATE		5949-29-1	201-069-1	01-2119457026-42	1 - 10% Xi; R36		
Tetrasodium ethylene diamine tetraacetate		64-02-8	200-573-9	01-2119486762-27	1 - 10% Xn; R22 Xi; R41		
trisodium nitrilotriacetate	607-620-00-6	5064-31-3	225-768-6	01-2119519239-36	1 - 10% Carc. Cat. 3; R40 Xn; R22 Xi; R36		
Cocamidopropyl Betain					10 - 20% Xi; R41 R52/53		
sodium hydroxide	011-002-00-6	1310-73-2	215-185-5	01-2119457892-27	0 - 0.5% C; R35		

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
CITRIC ACID MONOHYDRATE		5949-29-1	201-069-1	01-2119457026-42	1 - 10% Eye Irrit. 2: H319;		
C9-11 Alcohol ethoxylate		68439-46-3			1 - 10% Acute Tox. 4: H302; Eye Dam. 1: H318;		
Tetrasodium ethylene diamine tetraacetate		64-02-8	200-573-9	01-2119486762-27	1 - 10% Acute Tox. 4: H302+H332; Eye Dam. 1: H318; STOT RE 2: H373;		
trisodium nitrilotriacetate	607-620-00-6	5064-31-3	225-768-6	01-2119519239-36	1 - 10% Carc. 2: H351; Acute Tox. 4: H302; Eye Irrit. 2: H319;		
Cocamidopropyl Betain					10 - 20% Eye Dam. 1: H318; Aquatic Chronic 3: H412;		

## Further information

Product Description & Uses	A moderately alkaline exterior cleaner, specially formulated for the routine cleaning of HST trains at dilutions of between 1 part DP17 to 20 parts water and 1 part DP17 to 100 parts water depending on the degree of soiling to be removed.
Product Shelf Life	RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.
Active Ingredients	Ingredients DP17 - 5 - 15% Amphoteric Surfactants, 5 - 15% Non-ionic Surfactants, Acid NTA, Acid EDTA, Citric Acid, CI 10020.

## SECTION 4: First aid measures

# Heavy Duty DP17

Revision 34

Revision date 2016-09-23

## 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed.
Skin contact	Remove contaminated clothing. Wash with water and soap as a precaution.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly.

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

Inhalation	Harmful by inhalation. May cause irritation to respiratory system.
Eye contact	Harmful. Causes serious eye damage.
Skin contact	Harmful in contact with skin. May cause irritation to skin.
Ingestion	Harmful if swallowed. May cause irritation to mucous membranes.

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

Inhalation	Move the exposed person to fresh air. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Eye contact	Contact lenses should be removed. Rinse immediately with plenty of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Skin contact	Remove contaminated clothing. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Show this safety data sheet to the doctor in attendance.

## General information

	If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	This product is not flammable . Use fire-extinguishing media appropriate for surrounding materials.
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### 5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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### 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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## Further information

	In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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## SECTION 6: Accidental release measures

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

	Wear suitable protective equipment.
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### 6.2. Environmental precautions

	Advise local authorities if large spills cannot be contained.
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### 6.3. Methods and material for containment and cleaning up

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

	See section 2, 7, 8, 13 for further information.
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## SECTION 7: Handling and storage

# Heavy Duty DP17

Revision 34

Revision date 2016-09-23

## 7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Do not breathe vapours or spray mist. Adopt best Manual Handling considerations when handling, carrying and dispensing.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Store in a cool, dry area. Keep container tightly closed. Keep out of the reach of children. Store in original container.
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## 7.3. Specific end use(s)

	A moderately alkaline exterior cleaner, specially formulated for the routine cleaning of HST trains at dilutions of between 1 part DP17 to 20 parts water and 1 part DP17 to 100 parts water depending on the degree of soiling to be removed.
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## Suitable packaging

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

### 8.1. Control parameters

	Occupational exposure controls.
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#### 8.1.1. Exposure Limit Values

sodium hydroxide	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: -
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 2
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:

DNEL: Derived no-effect level.


### Exposure Pattern - Workers

sodium hydroxide	Long-term - inhalation - Systemic 1 mg/m <sup>3</sup> effects
Tetrasodium ethylene diamine tetraacetate	Acute inhalation - Local effects 2.5 mg/m <sup>3</sup>
	Long-term - inhalation - Local 2.5 mg/m <sup>3</sup> effects

### Exposure Pattern - General population

sodium hydroxide	Long-term - inhalation - Systemic 1 mg/m <sup>3</sup> effects	
Tetrasodium ethylene diamine tetraacetate	Acute inhalation - Local effects 1.5 mg/m <sup>3</sup>	
	Long-term - inhalation - Local 1.5 mg/m <sup>3</sup> effects	Long-term - oral - Systemic effects 25 mg/kg

### 8.2. Exposure controls

	
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection.

# Heavy Duty DP17

Revision 34

Revision date 2016-09-23

## 8.2. Exposure controls

Eye / face protection	Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields.
Skin protection - Handprotection	Rubber gloves.
Respiratory protection	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.
8.2.3. Environmental exposure controls	Prevent further leakage or spillage if safe to do so.

## SECTION 9: Physical and chemical properties

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

Appearance	Liquid
Colour	Green
Odour	Slight
Odour threshold	No data available
pH	9 - 10.3
Melting point	Not applicable.
Initial boiling point	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	No data available
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	No data available
Partition coefficient (n-octanol/water)	Not applicable.
Partition coefficient	Not applicable.
Autoignition temperature	Not applicable.
Viscosity	< 50 centipoise
Explosive properties	Not applicable.
Oxidising properties	No data available
Solubility	Soluble in water

### 9.2. Other information

Conductivity	Not applicable.
Surface tension	Not applicable.
Specific gravity	1.09 - 1.15 g/cm³
Gas group	Not applicable.
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic available compounds)	No data

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

	Stable under normal conditions. No specific reactivity hazards associated with this product.
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### 10.2. Chemical stability

	Stable under normal conditions. No particular stability concerns.
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### 10.3. Possibility of hazardous reactions

	Strong acids. Strong oxidising agents.
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### 10.4. Conditions to avoid

# Heavy Duty DP17

Revision 34

Revision date 2016-09-23

## 10.4. Conditions to avoid

	Protect from frost.
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## 10.5. Incompatible materials

	No incompatible groups noted.
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## 10.6. Hazardous decomposition products

	No Hazardous decomposition products when stored and handled correctly. Burning produces irritating, toxic and obnoxious fumes.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Not anticipated under normal conditions of use. May cause irritation to respiratory system. May cause irritation to skin.
Repeated or prolonged exposure	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Prolonged contact may cause defatting of the skin. Suspected of causing cancer .

### 11.1.2. Mixtures

	No data available.
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### 11.1.3. Hazard Information

	No data available.
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### 11.1.4. Toxicological Information

	No data available
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## SECTION 12: Ecological information

### 12.1. Toxicity

	No data available
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### 12.2. Persistence and degradability

	Substance biodegrades at a moderate rate and inherently biodegradable according to the OECD guide lines.
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### 12.3. Bioaccumulative potential

	No data is available on this product.
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### Partition coefficient

	Heavy Duty DP17 Not applicable.	CITRIC ACID MONOHYDRATE Not applicable.
	Cocamidopropyl Betain No data available	sodium hydroxide No data available

### 12.4. Mobility in soil

	No data is available on this product.
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### 12.5. Results of PBT and vPvB assessment

	No data is available on this product.
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### 12.6. Other adverse effects

	No data available.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

# Heavy Duty DP17

Revision 34

Revision date 2016-09-23

## 13.1. Waste treatment methods

	Dispose of waste and residues in accordance with local authority requirements.
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## General information

	Dispose of in compliance with all local and national requirements.
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## Disposal of packaging

	Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.
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## SECTION 14: Transport information

### 14.1. UN number

	The product is not classified as dangerous for carriage.
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### 14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
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### 14.3. Transport hazard class(es)

	The product is not classified as dangerous for carriage.
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### 14.4. Packing group

	The product is not classified as dangerous for carriage.
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### 14.5. Environmental hazards

	The product is not classified as dangerous for carriage.
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### 14.6. Special precautions for user

	The product is not classified as dangerous for carriage.
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### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	The product is not classified as dangerous for carriage.
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## SECTION 15: Regulatory information

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

Regulations	<p>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.</p> <p>COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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.</p>
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### 15.2. Chemical safety assessment

	No information available.
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## SECTION 16: Other information

### Other information

Text of risk phrases in Section 3	<p>R22 - Harmful if swallowed.</p> <p>R35 - Causes severe burns.</p> <p>R36 - Irritating to eyes.</p> <p>R40 - Limited evidence of a carcinogenic effect.</p> <p>R41 - Risk of serious damage to eyes.</p>
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# Heavy Duty DP17

Revision 34

Revision date 2016-09-23

## Other information

Text of Hazard Statements in Section 3	R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure . Carc. 2: H351 - Suspected of causing cancer . Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

## Further information

	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.
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