



SAFETY DATA SHEET according to Regulation (EU) 2015/830

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Heavy Duty DP17

Revision 42

Revision date 2020-11-04

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

1.1. Product identifier

Product name	Heavy Duty DP17
Product code	QAFC002

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

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC35] Washing and cleaning products (including solvent based products);
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	Superfine Manufacturing Ltd
Address	Orchardbank Industrial Estate Forfar Angus Scotland DD8 1TD
Web	www.superfine.co.uk
Telephone	Tel: 01307 463538
Fax	Fax: 01307 468505
Email	nigel@superfine.co.uk
Email address of the competent person	nigel@superfine.co.uk

1.4. Emergency telephone number

Emergency telephone number	01307 463538 8.30am to 17.00pm National Poisons Information Service: For medical advice or information you should contact your GP or NHS 111 (or NHS 24 in Scotland) on 111 (for 24 hour health advice) If you are a healthcare professional with an enquiry please visit www.TOXBASE.org
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Eye Dam. 1: H318;
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2.2. Label elements

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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Eye Dam. 1: H318 - Causes serious eye damage.
Precautionary Statement: Prevention	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. P337+P313 - If eye irritation persists: Get medical advice/attention.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved disposal site, in accordance with local regulations.
SUPPLEMENTAL HAZARD INFORMATION	Ingredients as required by Regulation (EC) No 648/2004:. 5 - 15% Amphoteric Surfactants, 5 - 15% Non-ionic Surfactants, NTA and salts thereof, EDTA and salts thereof, CI 10020.

2.3. Other hazards

Other hazards	This mixture is not classified as PBT or vPvB according to current EU criteria.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Citric Acid		5949-29-1	201-069-1	01-2119457026-42	1 - 10%	Eye Irrit. 2: H319;
C9-11 Alcohol Ethoxylate with EO		68439-45-2			1 - 10%	Acute Tox. 4: H302; Eye Dam. 1: H318;
Tetrasodium ethylene diamine tetraacetate	64-02-8	200-573-9	200-573-9	01-2119486762-27	1 - 10%	Acute Tox. 4: H302+H332; Eye Dam. 1: H318; STOT RE 2: H373;
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-C18 (even numbered) acyl derivs., hydroxides, inner salts	97862-59-4	931-296-8	931-296-8	01-2119488533-30	1 - 10%	Eye Dam. 1: H318; Aquatic Chronic 3: H412;
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;
sodium hydroxide	011-002-00-6	1310-73-2	215-185-5	01-2119457892-27	0 - 0.5%	Skin Corr. 1A: H314;

Further information

Product Shelf Life	RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.
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SECTION 4: First aid measures

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	May cause irritation to respiratory system.
Eye contact	Causes serious eye damage.

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

Skin contact	May cause irritation to skin.
Ingestion	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 if irritation or symptoms persist.
Eye contact	Contact lenses should be removed. Rinse immediately with plenty of water. Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Drink 1 to 2 glasses of water. Seek medical attention if irritation or symptoms persist.

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

	Fire fighters should wear self contained positive pressure breathing apparatus (SCBA) and full turnout gear.
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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

7.1. Precautions for safe handling

	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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure controls.

8.1.1. Exposure Limit Values

sodium hydroxide	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m ³ total - inhalable dust: WEL 8-hr limit mg/m ³ total - respirable dust:	WEL 8-hr limit mg/m ³ : - WEL 15 min limit mg/m ³ : 2 WEL 15 min limit mg/m ³ total - inhalable dust: WEL 15 min limit mg/m ³ total - respirable dust:
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DNEL: Derived no-effect level.

Exposure Pattern - Workers

sodium hydroxide	Acute inhalation - Local effects 2 mg/m ³ Acute dermal - Local effects 2 mg/kg	Long-term - inhalation - Local 1 mg/m ³ effects
Tetrasodium ethylene diamine tetraacetate	Acute inhalation - Local effects 2.5 mg/m ³ Long-term - inhalation - Local 2.5 mg/m ³ effects	
trisodium nitrilotriacetate	Acute inhalation - Systemic 5.25 mg/m ³ effects Long-term - inhalation - Systemic 3.5 mg/m ³ effects	

Exposure Pattern - General population

sodium hydroxide	Long-term - inhalation - Local 1 mg/m ³ effects	
Tetrasodium ethylene diamine tetraacetate	Acute inhalation - Local effects 1.5 mg/m ³ Long-term - inhalation - Local 1.5 mg/m ³ effects	Long-term - oral - Systemic effects 25 mg/kg
trisodium nitrilotriacetate	Long-term - inhalation - Systemic 1.75 mg/m ³ effects	

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.

8.2.1. Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below there respective threshold limit value. Ensure eyewash stations and safety showers are close to the workstation location.

Eye / face protection

Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye

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8.2. Exposure controls

	contact is possible. The following protection should be worn: Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Skin protection - Handprotection	Rubber gloves. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
Skin protection - Other	Wear suitable protective clothing.
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/cm ³
Gas group	Not applicable.
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions. No specific reactivity hazards associated with this product.

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.

10.4. Conditions to avoid

Protect from frost. Avoid storing in direct Sun Light.

10.5. Incompatible materials

Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

No Hazardous decomposition products when stored and handled correctly.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard	<p>This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP).</p>
	<p>based on available data the classification criteria are not met.</p>
	<p>Oral ATE = >10,000 mg/kg.</p>
	<p>Inhalation - Dust/Mist ATE = 19.72 mg/l.</p>
	<p>based on available data the classification criteria are not met.</p>
	<p>Eye Dam. 1: H318 - Causes serious eye damage.</p>
	<p>based on available data the classification criteria are not met.</p>
	<p>based on available data the classification criteria are not met.</p>
	<p>based on available data the classification criteria are not met.</p>
	<p>based on available data the classification criteria are not met.</p>

11.1.2. Mixtures

No data available.

11.1.3. Hazard Information

No data available.

11.1.4. Toxicological Information

C9-11 Alcohol Ethoxylate with EO	Oral Rat LD50: 1100 mg/kg	
Tetrasodium ethylene diamine tetraacetate	Oral Rat LD50: 1780 mg/kg	Inhalation Rat LC50/4 h: >1 - <5 mg/l
trisodium nitrilotriacetate	Oral Rat LD50: 1450 mg/kg	

SECTION 12: Ecological information

12.1. Toxicity

sodium hydroxide	Daphnia LC50/48h: 40 - 240 mg/l Bluegill sunfish LC50/96h: 125 mg/l	Rainbow trout LC50/96h: 45.5 mg/l Guppy LC50/96h: 33 - 189 mg/l
Tetrasodium ethylene diamine tetraacetate	Fish LC50/96h: 100.0000 mg/l	Algae EC50/72h: >100 mg/l
trisodium nitrilotriacetate	Daphnia EC50/48h: 780.0000 mg/l	Green algae EC50/96h: 98 - 312 mg/l

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

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12.3. Bioaccumulative potential

The product is not bioaccumulating.

Partition coefficient

Heavy Duty DP17 Not applicable.

sodium hydroxide No data available

12.4. Mobility in soil

This product is soluble in water.

12.5. Results of PBT and vPvB assessment

This mixture is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

General information

Dispose of in compliance with all local and national requirements.

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.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

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.

SECTION 15: Regulatory information

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

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.

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

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.

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Other information

Revision	<p>This document differs from the previous version in the following areas:.</p> <p>1 - Product Use.</p> <p>2 - Precautionary Statement: Prevention.</p> <p>2 - Precautionary Statement: Response.</p> <p>2 - Precautionary Statement: Storage.</p> <p>2 - Precautionary Statement: Disposal.</p> <p>2 - SUPPLEMENTAL HAZARD INFORMATION.</p> <p>3 - Active Ingredients.</p> <p>5 - 5.3. Advice for firefighters.</p> <p>7 - 7.3. Specific end use(s).</p> <p>8 - Skin protection - Handprotection.</p> <p>8 - Eye / face protection.</p> <p>8 - Skin protection - Other.</p> <p>10 - 10.4. Conditions to avoid.</p> <p>10 - 10.6. Hazardous decomposition products.</p> <p>10 - 10.5. Incompatible materials.</p> <p>11 - 11.1.4. Toxicological Information.</p> <p>11 - Acute toxicity.</p> <p>12 - 12.1. Toxicity.</p> <p>12 - 12.4. Mobility in soil.</p> <p>12 - 12.3. Bioaccumulative potential.</p> <p>12 - 12.5. Results of PBT and vPvB assessment.</p>
Data sources	<p>Classification and Procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008:.</p> <p>Eye Dam. 1: H318 - Causes serious eye damage. - Calculation Method.</p>
Text of Hazard Statements in Section 3	<p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>Acute Tox. 4: H302 - Harmful if swallowed.</p> <p>Eye Dam. 1: H318 - Causes serious eye damage.</p> <p>Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled</p> <p>STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .</p> <p>Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.</p> <p>Carc. 2: H351 - Suspected of causing cancer .</p> <p>Met. Corr. 1: H290 - May be corrosive to metals.</p> <p>Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.</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>