

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 11.12.2024

Version number 1

Revision: 11.12.2024

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

1.1 Product identifier

Trade name: Powerwash T20**Product Code:** HS0116/D26**Registration number** Mixture

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

Product category PC35 Washing and cleaning products (including solvent based products)**Application of the substance / the mixture** Cleaning agent/ Cleaner

Uses advised against

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Any use involving aerosol formation or vapour release in excess of the assigned Workplace Exposure Limit where workers are exposed without suitable Respiratory Protective Equipment.

1.3 Details of the supplier of the safety data sheet

Supplier:

Pennine Lubricants Ltd

32 Atlas Way

Sheffield

S4 7QQ

Tel: 0114 285 2987

Email: Admin@penninelubricants.co.uk

Further information obtainable from: Product safety department.

1.4 Emergency telephone number:

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to GB-CLP

Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements

Labelling according to GB-CLP The product is classified and labelled according to the GB CLP regulation.**Hazard pictograms**

GHS05

Signal word Danger**Hazard-determining components of labelling:**

Tetrasodium ethylenediaminetetraacetate

Non-ionic surfactant

Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 2)

GB

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

(Contd. of page 1)

P310 Immediately call a POISON CENTER/doctor.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.**vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: An aqueous solution of the substances listed below with multifunctional additives.

Dangerous components:

CAS: 64-02-8 EINECS: 200-573-9 Index number: 607-428-00-2 Reg.nr.: 01-2119486762-27-XXXX	Tetrasodium ethylenediaminetetraacetate ☠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	3 – 10%
CAS: 68439-46-3 EC number: 614-482-0	Non-ionic surfactant ☠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	3 – 10%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 Reg.nr.: 01-2119475108-36-XXXX	2-butoxyethanol ☠ Acute Tox. 3, H331; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/kg LC50/4 h inhalative: 3 mg/l	1 – 2.5%
CAS: 90170-43-7 EINECS: 290-476-8 Reg.nr.: 01-2119976233-35-XXXX	β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs. salts ⚠ Eye Irrit. 2, H319	1 – 2.5%
Neutralisation product	Etidronic acid, neutralised ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319 ATE: LD50 oral: 500 mg/kg	1 – 2.5%
EC number: 931-296-8	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts ☠ Eye Dam. 1, H318; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 4 % ≤ C < 10 %	1 – < 2.5%
Neutralisation product	Inorganic base, neutralised ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.1 – 1%

Additional information:

Neutralisation products are exempt from registration in accordance with UK REACH Annex V, 4.

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

After eye contact:

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Wash mouth out with water

(Contd. on page 3)

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 11.12.2024

Version number 1

Revision: 11.12.2024

(Contd. of page 2)

Do not induce vomiting; call for medical help immediately.

Information for doctor: Treat symptomatically and supportively.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)

Toxic metal oxide smoke

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow product to reach sewage system or any water course in the undiluted form.

6.3 Methods and material for containment and cleaning up:

Contain and collect spillage with non-combustible absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Safety showers and eye wash facilities should be available at the work area.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.

Information about storage in one common storage facility:

Do not store together with acids.

(Contd. on page 4)

GB

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 11.12.2024

Version number 1

Revision: 11.12.2024

(Contd. of page 3)

Store away from oxidising agents.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from frost.

Storage class: 12**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 111-76-2 2-butoxyethanol**

WEL	Short-term value: 246 mg/m , 50 ppm
	Long-term value: 123 mg/m , 25 ppm
	Sk, BMGV

DNELs**CAS: 64-02-8 Tetrasodium ethylenediaminetetraacetate**

Oral	Long-term systemic effects	25 mg/kg bw/day (general population)
Inhalative	Long-term systemic effects	1.5 mg/m (worker)
	Short-term systemic effects	3 mg/m (worker)
	Short-term local effects	1.2 mg/m (general population)
		3 mg/m (worker)
	Long-term local effects	600 µg/m (general population)
		1,500 µg/m (worker)

CAS: 68439-46-3 Non-ionic surfactant

Oral	Long-term systemic effects	25 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	1,250 mg/kg bw/day (general population)
		2,080 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	87 mg/m (general population)
		294 mg/m (worker)

CAS: 111-76-2 2-butoxyethanol

Oral	Long-term systemic effects	6.3 mg/kg bw/day (general population)
	Short-term systemic effects	26.7 mg/kg bw/day (general population)
Inhalative	Long-term systemic effects	59 mg/m (general population)
		98 mg/m (worker)
	Short-term systemic effects	426 mg/m (general population)
		1,091 mg/m (worker)
	Short-term local effects	147 mg/m (general population)
		246 mg/m (worker)

CAS: 90170-43-7β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

Dermal	Long-term systemic effects	2.67 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	980 mg/m (worker)

PNECs**CAS: 64-02-8 Tetrasodium ethylenediaminetetraacetate**

Freshwater	2.83 mg/L
Freshwater - Intermittent releases	1 mg/L

(Contd. on page 5)

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 11.12.2024

Version number 1

Revision: 11.12.2024

(Contd. of page 4)

Marine water	µg/L	283
Marine Water - Intermittent releases		1 mg/L
Sewage Treatment Plant		50 mg/L
Soil		1.1 mg/kg
CAS: 68439-46-3 Non-ionic surfactant		
Freshwater	µg/L	103.79
Freshwater - Intermittent releases		14µg/L
Marine water	µg/L	103.79
Sewage Treatment Plant		1.4 mg/L
Sediment (freshwater)		13.7 mg/kg
Sediment (marine water)		13.7 mg/kg
Soil		1 mg/kg
CAS: 111-76-2 2-butoxyethanol		
Freshwater		8.8 mg/L
Freshwater - Intermittent releases		26.4 mg/L
Marine water	µg/L	880
Sewage Treatment Plant		463 mg/L
Sediment (freshwater)		34.6 mg/kg
Sediment (marine water)		3.46 mg/kg
Soil		2.33 mg/kg
Secondary poisoning		20 mg/kg food
CAS: 90170-43-7β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts		
Freshwater	µg/L	100
Freshwater - Intermittent releases		100 µg/L
Marine water	µg/L	10
Sewage Treatment Plant	µg/L	300
Ingredients with biological limit values:		
CAS: 111-76-2 2-butoxyethanol		
BMGV	240 mmol/mol creatinine	
	Medium: urine	
	Sampling time: post shift	
	Parameter: butoxyacetic acid	

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Take note of assigned Workplace Exposure Limits.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Do not inhale gases / fumes / aerosols.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

(Contd. on page 6)

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 11.12.2024

Version number 1

Revision: 11.12.2024

(Contd. of page 5)

Hand protection



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection



Tightly sealed goggles conforming to EN166.

Body protection:



Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

Environmental exposure controls Do not allow to enter drains, sewers or watercourses.

Risk management measures The operators shall be instructed adequately.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Fluid
Colour:	Pale straw
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	100 °C (CAS: 7732-18-5 Water)
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH at 20 °C	12
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.

(Contd. on page 7)

GB

Safety data sheet
according to UK REACH (SI 2020/1577) as amended

Printing date 11.12.2024

Version number 1

Revision: 11.12.2024

(Contd. of page 6)

Density and/or relative density	
Density at 20 °C:	1.07 g/cm
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
VOC (EC)	2.00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases	
in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity**10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** Heat and static discharge.**10.5 Incompatible materials:**

Strong acids.

Strong oxidising agents.

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)

Toxic metal oxide smoke

GB

(Contd. on page 8)

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 11.12.2024

Version number 1

Revision: 11.12.2024

(Contd. of page 7)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	4,751.7 mg/kg
Inhalative	LC50/4 h	150 mg/l (ATE)

CAS: 64-02-8 Tetrasodium ethylenediaminetetraacetate

Oral	LD50	1,780 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (rat) (ATE)

CAS: 68439-46-3 Non-ionic surfactant

Oral	LD50	316.84 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
Inhalative	LC50/4 h	> 5,000 mg/l (rat)

CAS: 111-76-2 2-butoxyethanol

Oral	LD50	1,200 mg/kg (ATE)
Dermal	LD50	3,000 mg/kg (rabbit)
Inhalative	LC50/4 h	3 mg/l (ATE) 3 mg/l (rat)

CAS: 90170-43-7β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

Oral	LD50	> 2,000 mg/kg (rat)
------	------	---------------------

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts

Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Subacute to chronic toxicity: Prolonged or repeated skin contact may irritate and cause dermatitis.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients are listed.

GB

(Contd. on page 9)

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 11.12.2024

Version number 1

Revision: 11.12.2024

(Contd. of page 8)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 90170-43-7 β -Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

EC50 (96 h) 4.2 mg/l (Fish)

EC50 (48 h) 29 mg/l (Daphnia)

EC50 (72 h) 9.4 mg/l (Algae)

12.2 Persistence and degradability The organic portion of the product is biodegradable.**12.3 Bioaccumulative potential** Contains components with the potential to bioaccumulate.**12.4 Mobility in soil** No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

Uncleaned packaging:

Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN, IMDG, IATA

Not applicable

14.2 UN proper shipping name

ADR/RID/ADN, IMDG, IATA

Not applicable

(Contd. on page 10)

GB

Safety data sheet
according to UK REACH (SI 2020/1577) as amended

Printing date 11.12.2024

Version number 1

Revision: 11.12.2024

(Contd. of page 9)

14.3 Transport hazard class(es)	
ADR/RID/ADN, ADN, IMDG, IATA Class	Not applicable
14.4 Packing group	
ADR/RID/ADN, IMDG, IATA	Not applicable
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	Not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Poisons Act

Regulated explosives precursors
None of the ingredients are listed.
Regulated poisons
None of the ingredients are listed.
Reportable explosives precursors
None of the ingredients are listed.
Reportable poisons
CAS: 1310-73-2 Sodium hydroxide 12% of total caustic alkalinity

Control Of Major Accident Hazards Regulations 2015 (COMAH)
Named dangerous substances - ANNEX I None of the ingredients are listed.**National regulations:****Information about limitation of use:**

Class	Share in %
NK	2.0

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 11)

GB

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 11.12.2024

Version number 1

Revision: 11.12.2024

(Contd. of page 10)

Training hints

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

Department issuing SDS: Product safety department.

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

GB