



SAFETY DATA SHEET

Swarfega Powerwash Patio & Driveway Cleaner

According to Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Swarfega Powerwash Patio & Driveway Cleaner
Product No. SPBQ5LB, SWPD27QP, SWPD2LBSFX, SWPD5LB

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

Identified uses Detergent. . For full details regarding recommended uses please refer to the product label.

1.3. Details of the supplier of the safety data sheet

Supplier Deb Ltd
Denby Hall Way
Denby
Derbyshire
DE5 8JZ
Main Tel. 01773 855100
Technical Tel 01773 855105
reach@deb.co.uk

1.4. Emergency telephone number

National Poisons Information Service (UK) 0844 8920111

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xi;R36/38.

Environment

The product does not meet the requirement for classification as an environmental hazard in accordance with directive 1999/45/EEC

2.2. Label elements

Detergent Labelling

< 5%
EDTA and salts thereof
amphoteric surfactants
non-ionic surfactants
cationic surfactants

Labelling



Irritant

Risk Phrases

R36/38

Irritating to eyes and skin.

Safety Phrases

S2

Keep out of the reach of children.

S24/25

Avoid contact with skin and eyes.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37

Wear suitable gloves.

S46

If swallowed, seek medical advice immediately and show this container or label.

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S64

If swallowed, rinse mouth with water (only if the person is conscious).

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE		1-5%
CAS-No.: 64-02-8	EC No.: 200-573-9	Registration Number: 01-2119486762-27
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC) Xn;R22 Xi;R41	
SODIUM HYDROXIDE		1-5%
CAS-No.: 1310-73-2	EC No.: 215-185-5	
Classification (EC 1272/2008) Skin Corr. 1A - H314	Classification (67/548/EEC) C;R35	
COCAMINE OXIDE		0.1-1%
CAS-No.: 61788-90-7	EC No.: 931-341-1	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400	Classification (67/548/EEC) Xn;R22. Xi;R38,R41. N;R50.	
ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE		0.1-1%
CAS-No.: 68424-85-1	EC No.:	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Aquatic Acute 1 - H400	Classification (67/548/EEC) Xn;R21/22. C;R34. N;R50.	
ETHANEDIOL		< 0.1%
CAS-No.: 107-21-1	EC No.: 203-473-3	
Classification (EC 1272/2008) Acute Tox. 4 - H302	Classification (67/548/EEC) Xn;R22	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures**

Swarfega Powerwash Patio & Driveway Cleaner

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

Eye contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation

Irritation of nose, throat and airway.

Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact

Skin irritation.

Eye contact

Irritation of eyes and mucous membranes.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

None under normal conditions.

5.3. Advice for firefighters

Special Fire Fighting Procedures

No specific fire fighting procedure given.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Collect and dispose of spillage as indicated in section 13. Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact.

7.2. Conditions for safe storage, including any incompatibilities

Store in closed original container at temperatures between 0°C and 40°C.

Swarfega Powerwash Patio & Driveway Cleaner

Storage Class

Chemical storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ETHANEDIOL	WEL	20 ppm	10 mg/m3	40 ppm	104 mg/m3	Sk
SODIUM HYDROXIDE	WEL				2 mg/m3	

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

Ingredient Comments

EU = Indicative Values according to Commission Directive 91/322/EEC.

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL

Industry	Inhalation.	Long Term	Local Effects	1 mg/m3
Consumer	Inhalation.	Long Term	Local Effects	1 mg/m3

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

DNEL

Professional	Inhalation.	Short Term	Systemic Effects	2.8 mg/m3
Consumer	Inhalation.	Short Term	Systemic Effects	1.5 mg/m3
Consumer	Oral	Long Term	Systemic Effects	28 mg/kg/day
Professional	Inhalation.	Long Term	Systemic Effects	2.5 mg/m3
Professional	Inhalation.	Long Term	Local Effects	2.5 mg/m3
Professional	Inhalation.	Short Term	Systemic Effects	2.5 mg/m3
Professional	Inhalation.	Short Term	Local Effects	2.5 mg/m3
Consumer	Inhalation.	Long Term	Local Effects	1.5 mg/m3

PNEC

Freshwater	2.2	mg/l
Marinewater	0.22	mg/l
Intermittent release	1.2	mg/l
STP	43	mg/l
Soil	0.72	mg/kg

COCAMINE OXIDE (CAS: 61788-90-7)

DNEL

Professional	Dermal	Long Term	Systemic Effects	11 mg/kg/day
Professional	Inhalation.	Systemic Effects	15.5	mg/m3
Consumer	Dermal	Long Term	Systemic Effects	5.5 ppm
Consumer	Inhalation.	Systemic Effects	3.8	mg/m3
Consumer	Oral	Long Term	Systemic Effects	0.44 mg/kg/day
Professional	Combined	Local Effects	0.045 mg/cm2	
Consumer	Dermal	Local Effects	0.045 mg/cm2	

PNEC

Freshwater	0.0335	mg/kg	
Marinewater	0.00335	mg/l	
Water	Intermittent release	0.0335	mg/l
Soil	1.02	mg/kg	
STP	24	mg/l	

8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

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Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand protection

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

If risk of splashing, wear safety goggles or face shield.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Reddish.
Odour	Characteristic.
Solubility	Soluble in water.
Initial boiling point and boiling range (°C)	
Not determined.	
Melting point (°C)	
Not determined.	
Relative density	1.018-1.038 25 Deg C
Vapour pressure	
Not determined.	
Evaporation rate	
Not determined.	
pH-Value, Conc. Solution	12-13
Viscosity	
Not determined.	
Decomposition temperature (°C)	
Not determined.	
Odour Threshold, Lower	
Not determined.	
Odour Threshold, Upper	
Not determined.	
Flash point (°C)	
Not determined.	
Auto Ignition Temperature (°C)	
Scientifically unjustified.	
Flammability Limit - Lower(%)	
Scientifically unjustified.	
Flammability Limit - Upper(%)	
Scientifically unjustified.	
Partition Coefficient (N-Octanol/Water)	
Scientifically unjustified.	
Explosive properties	
Scientifically unjustified.	
Oxidising properties	
Does not meet the criteria for oxidising.	

9.2. Other information

Not relevant

SECTION 10: STABILITY AND REACTIVITY

Swarfega Powerwash Patio & Driveway Cleaner

10.1. Reactivity

Reaction with: Acids.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid frost.

10.5. Incompatible materials

Materials To Avoid

Strong acids.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Based on available data the classification criteria are not met.

Skin Corrosion/Irritation:

Slightly irritating.

Serious eye damage/irritation:

Based on available data the classification criteria are not met.

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:

Does not contain any substances known to be carcinogenic.

Reproductive Toxicity:

Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure:

Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure:

Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard:

Not anticipated to present an aspiration hazard based on chemical structure.

Inhalation

May cause irritation to the respiratory system.

Ingestion

May cause discomfort if swallowed.

Skin contact

Irritating to skin.

Swarfega Powerwash Patio & Driveway Cleaner

Eye contact

Irritating to eyes.

Toxicological information on ingredients.

SODIUM HYDROXIDE (CAS: 1310-73-2)

Toxic Dose 1 - LD 50

325 mg/kg (oral-rbt)

Toxic Dose 2 - LD 50

373 mg/kg (oral rat)

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

Toxic Dose 1 - LD 50

>2000 mg/kg (oral rat)

Toxic Conc. - LC 50

1000 - 5000 Not noted.

Acute toxicity:

Acute Toxicity (Oral LD50)

1780 mg/kg Rat

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE (CAS: 68424-85-1)

Acute toxicity:

Acute Toxicity (Oral LD50)

795 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 400 mg/kg Rabbit

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product does not meet the requirement for classification as an environmental hazard in accordance with directive 1999/45/EEC

12.1. Toxicity

The product does not meet the requirement for classification as an environmental hazard in accordance with directive 1999/45/EEC

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Ecological information on ingredients.

SODIUM HYDROXIDE (CAS: 1310-73-2)

LC 50, 96 Hrs, Fish mg/l

125

Acute Toxicity - Aquatic Invertebrates

EC50 76 mg/l Daphnia magna

Acute Toxicity - Microorganisms

EC50 22 mg/l

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

LC 50, 96 Hrs, Fish mg/l

>100

EC 50, 48 Hrs, Daphnia, mg/l

>100

IC 50, 72 Hrs, Algae, mg/l

<100

Chronic Toxicity - Fish Early life Stage

28 days \geq 36.9 mg/l Brachydanio rerio (Zebra Fish)

Chronic Toxicity - Aquatic Invertebrates

21 days 25 mg/l Daphnia magna

Acute Toxicity - Terrestrial

LC50 14 days 156 mg/kg Eisenia Fetida (Earthworm)

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE (CAS: 68424-85-1)

Acute Toxicity - Fish

LC50 96 hours < 1 mg/l

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours < 1 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

IC50 48 hours < 1 mg/l Freshwater algae

12.2. Persistence and degradability

Degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Scientifically unjustified.

Ecological information on ingredients.

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

Bioaccumulation factor

1.8 (28d) Lepomis macrochirus (Bluegill)

12.4. Mobility in soil

Mobility:

The product is soluble in water. The product is non-volatile.

12.5. Results of PBT and vPvB assessment

None known.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

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13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. No specific disposal method required. Recover and reclaim or recycle, if practical. The following information is provided from exposure scenario(s) received from suppliers for the listed substances. The figures have been calculated using EU standard models & are not based on local conditions. Note that more than one product used on site might contain these substances. Also note the Trade Effluent Consent and/or Environmental Permit may have restrictions below these figures so it is recommended that you consult your local waste water treatment company.

Contains AMINES C12-18 ALKYLDIMETHYL, N-OXIDES Maximum discharge of product per day 120L

SECTION 14: TRANSPORT INFORMATION

General	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
Road Transport Notes	Not Classified
Rail Transport Notes	Not classified.
Sea Transport Notes	Not classified.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Transport Labels

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. 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, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information

Only trained personnel should use this material.

Swarfega Powerwash Patio & Driveway Cleaner**Revision Comments**

New REACH Annex 2 Compliant MSDS

Revision Date 27/09/2013**Revision** 2**Supersedes date** 15/02/2011**Risk Phrases In Full**

R34	Causes burns.
R35	Causes severe burns.
R22	Harmful if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.

Hazard Statements In Full

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

Notes for Risk Phrases and Hazard Statements in Full

The full text for Risk Phrases and Hazard Statements in section 16 relates to the reference numbers in sections 2 and 3 and not necessarily the finished product classification.

Disclaimer

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.