

SAFETY DATA SHEET

(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)

**Swarfega Powerwash Formula TFR**

Version 1.1
Revision Date 19.12.2022

Print Date 19.12.2022
Specification Number: 350000043409

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

- 1.1 Product identifier** : Swarfega Powerwash Formula TFR
- UFI** : GGY3-00A9-1001-2MW2
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
- Use of the Substance/Mixture** : Washing and cleaning products (including solvent based products)
- Uses advised against** : None identified
- 1.3 Details of the supplier of the safety data sheet** : SC Johnson Professional GmbH,
Girmesgath 5,
47803 Krefeld
- Telephone** : +44 (0) 1773 85510
+49 (0) 2151 73801827
- E-mail address** : talktous@scj.com
- 1.4 Emergency telephone number** : National Poisons Information Centre (Eire) 01-8092566/8379964

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 (CLP)

Hazard classification	Hazard category	Hazards identification
Skin irritation	Category 2	Causes skin irritation.
Serious eye damage	Category 1	Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard symbols

Signal word
Danger

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Hazard statements

(H315) Causes skin irritation.

(H318) Causes serious eye damage.

Precautionary statements

(P302 + P352) IF ON SKIN: Wash with plenty of soap and water.

(P332 + P313) If skin irritation occurs: Get medical advice/ attention.

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

(P501) Dispose of contents /container in accordance with local regulations.

(P280) Wear protective gloves/ protective clothing/ eye protection/ face protection.

Contains TETRASODIUM ETHYLENE DIAMINE TETRAACETATE, SODIUM HYDROXIDE, 3-C12-14- (EVEN NUMBERED)-ALKYLAMIDO-N,N-DIMETHYLPROPAN-1-AMINO OXIDE**Detergents regulations****: Contains**

< = 5% EDTA and salts, amphoteric surfactants, Cationic surfactants, non-ionic surfactants,

2.3 Other hazards**: Endocrine Disruptor**

The mixture does not contain any substances >0.1% that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties

PBT and vPvB substance

The mixture does not contain any substances >0.1% that meet the criteria for persistent, bioaccumulative and toxic or very persistent and very bioaccumulative in accordance with Annex XIII.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Mixtures****Hazardous components:**

Chemical name	CAS-No./EC-No.	Reg. No.	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
tetrasodium ethylene diamine tetraacetate	64-02-8 / 200-573-9	01-2119486762-27	Acute toxicity Category 4 H302 Serious eye damage Category 1 H318	>= 1.00 - < 5.00	<u>ATE:</u> Oral = > 1,780 mg/kg Species: Rat
caustic soda	1310-73-2 / 215-185-5	01-2119982981-22	Skin corrosion Category 1A	>= 1.00 - < 5.00	<u>ATE:</u> Oral = 325 mg/kg





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Chemical name	CAS-No./EC-No.	Reg. No.	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			H314 Serious eye damage Category 1 H318		Species: Rat Dermal = 1,350 mg/kg Species: Rabbit SCL: Skin corrosion H314 ≥ 5 % Skin corrosion H314 2 - < 5 % Skin irritation H315 0.5 - < 2 % Eye irritation H319 0.5 - < 2 %
3-C12-18-(even numbered)-Alkylamido-N,N-dimethylpropan-1-amino oxide	1471314-81-4 / 939-581-9		Short-term (acute) aquatic hazard Category 1 H400 Long-term (chronic) aquatic hazard Category 3 H412	≥ 1.00 - < 5.00	M-Factor Acute = 1 ATE:
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1 / 270-325-2	01-2119983287-23	Skin corrosion Category 1 H314 Serious eye damage Category 1 H318 Long-term (chronic) aquatic hazard	≥ 0.10 - < 0.50	M-Factor Acute = 10 M-Factor Chronic = 1 ATE: Oral = 426 mg/kg Species: Rat Dermal = 930 mg/kg Species: Rat

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Chemical name	CAS-No./EC-No.	Reg. No.	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Category 1 H410 Short-term (acute) aquatic hazard Category 1 H400 Acute toxicity Category 4 H302 Acute toxicity Category 3 H311 Acute toxicity Category 3 H331		

Additional Information

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

- Inhalation : Move to fresh air.
If breathing is affected, get medical attention.
- Skin contact : Take off all contaminated clothing immediately.
Wash off with soap and plenty of water.
Get medical attention if irritation develops and persists.
Wash contaminated clothing before re-use.
- Eye contact : Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
Flush immediately with plenty of water for at least 15 to 20 minutes.
Get medical attention immediately.

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Ingestion : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Eyes : Causes serious eye damage.
No adverse effects expected when used as directed.

Skin effect : Causes skin irritation.
No adverse effects expected when used as directed.

Inhalation : May cause respiratory tract irritation.
No adverse effects expected when used as directed.

Ingestion : May cause irritation to mouth, throat and stomach.
May cause abdominal discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

See Description of first aid measures unless otherwise stated.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable : None identified

5.2 Special hazards arising from the substance or mixture : In case of fire and/or explosion do not breathe fumes.
Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters : In the event of fire, wear self-contained breathing apparatus.
Wear suitable protective clothing and gloves.
Refer to current EN or National standard as appropriate.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

6.2 Environmental precautions : Outside of normal use, avoid release to the environment.
Prevent large amounts of product from entering drains.

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- Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Use appropriate containment to avoid environmental contamination.
- 6.3 Methods and materials for containment and cleaning up** : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean residue from spill site.
Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections** : For personal protection see section 8.
For disposal considerations see section 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** : For personal protection see section 8.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
Wear personal protective equipment.
Normal measures for preventive fire protection.
- 7.2 Conditions for safe storage, including any incompatibilities** : Do not freeze.
Keep out of the reach of children.
Store away from food, beverages and pet food.
No decomposition if stored and applied as directed.
- 7.3 Specific end use(s)** : Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Washing and cleaning products (including solvent based products)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Occupational Exposure Limit Values**

Components	CAS-No.	mg/m3	ppm	Form of exposure	List
caustic soda	1310-73-2	2 mg/m3			IE_STELS

Refer to current EN or National standard as appropriate.

8.2 Exposure controls

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection : Wear suitable gloves.
Nitrile gloves – Thickness 0.12mm; Breakthrough time >2 hours.

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The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Before removing gloves clean them with soap and water.

Eye/face protection	:	Safety glasses
Skin and body protection	:	Wash contaminated clothing before re-use.
Other information	:	Wash hands before breaks and at the end of workday.
Environmental Exposure Controls	:	Refer to section 6.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance	:	liquid
Colour	:	red
Odour	:	Functional Unfragranced
pH	:	12.5
Melting point/freezing point	:	-20°C - 0°C
Initial boiling point and boiling range	:	100 °C
Flash point	:	does not flash
Flammability (solid, gas)	:	Does not sustain combustion.
Lower flammability or explosive limits	:	Not measured as flashpoint >100 °C
Upper flammability or explosive limits	:	Not measured as flashpoint >100 °C
Vapour density	:	Not measured as flashpoint >100 °C
Relative density	:	1.031 g/cm ³ at 20 C
Solubility(ies)	:	soluble
Partition coefficient: n-octanol/water	:	Not required as the product is a mixture.
Auto-ignition temperature	:	Not measured as flashpoint >100 °C

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Decomposition temperature : Not measured as mixture is not self-reactive

Viscosity, kinematic : Test not applicable for this product type

Particle Characteristics : Not required as mixture is a liquid

9.2 Other information

Other information : Test not applicable for this product type

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity** : No dangerous reaction known under conditions of normal use.**10.2 Chemical stability** : Stable under recommended storage conditions.**10.3 Possibility of hazardous reactions** : None known.**10.4 Conditions to avoid** : Extremes of temperature and direct sunlight.**10.5 Incompatible materials** : Do not mix with acids or any other household products. May release dangerous gases (chlorine).**10.6 Hazardous decomposition products** : No decomposition if stored and applied as directed.**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

Name	Method	Species	Dose
Product	LD50 Calculated		> 2,000 mg/kg

Acute inhalation toxicity

Name	Method	Species	Dose	Exposure time
Product	LC50 (dust and mist)		> 5 mg/l	

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	Calculated			
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Acute dermal toxicity

Name	Method	Species	Dose
Product	LD50 Calculated		> 2,000 mg/kg

- Skin corrosion/irritation : Causes skin irritation.EpiSkin
- Serious eye damage/eye irritation : Causes serious eye damage.
- 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.
- Toxicity for reproduction : 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.

11.2 Information on other hazards

- Endocrine Disrupting Properties : The mixture does not contain any substances >0.1% that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties
- Other information : None identified

SECTION 12: ECOLOGICAL INFORMATION**Product** : The product itself has not been tested.**12.1 Toxicity****Toxicity to fish**

Components	End point	Species	Value	Exposure time
tetrasodium ethylene diamine tetraacetate	LC50 static test	Lepomis macrochirus	41 mg/l	96 h

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	NOEC	Danio rerio (zebra fish)	> 25.7 mg/l	35 d
caustic soda	LC50	Fish	35 - 189 mg/l	96 h
3-C12-18-(even numbered)-Alkylamido-N,N-dimethylpropan-1-amino oxide	LC50 semi-static test estimated OECD Test Guideline 203	Oncorhynchus mykiss (rainbow trout)	1.8 mg/l	96 h
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	LC50 Measured OECD Test Guideline 203	Pimephales promelas (fathead minnow)	0.28 mg/l	96 h
	NOEC	Pimephales promelas (fathead minnow)	0.032 mg/l	34 d

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
tetrasodium ethylene diamine tetraacetate	EC50	Daphnia magna (Water flea)	140 mg/l	48 h
	NOEC	Daphnia magna	25 mg/l	21 d
caustic soda	EC50	Daphnia magna (Water flea)	40.4 mg/l	48 h
3-C12-18-(even numbered)-Alkylamido-N,N-dimethylpropan-1-amino oxide	EC50 static test estimated	Daphnia magna (Water flea)	0.96 mg/l	48 h
	NOEC semi-static test Measured	Daphnia magna	0.82 mg/l	21 d
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	EC50	Daphnia (water flea)	0.012 mg/l	48 h
	NOEC	Daphnia magna	0.0042 mg/l	21 d

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
tetrasodium ethylene diamine tetraacetate	EC50	Desmodemus subspicatus	1.01 mg/l	72 h

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caustic soda	No data available			
3-C12-18-(even numbered)-Alkylamido-N,N-dimethylpropan-1-amino oxide	NOEC static test Measured	Pseudokirchneriella subcapitata (green algae)	0.85 mg/l	72 h
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	EC50	Pseudokirchneriella subcapitata (green algae)	0.049 mg/l	72 h

12.2 Persistence and degradability

Component	Biodegradation	Exposure time	Summary
tetrasodium ethylene diamine tetraacetate	10 %	28 d	Not readily biodegradable.
caustic soda	No data available		
3-C12-18-(even numbered)-Alkylamido-N,N-dimethylpropan-1-amino oxide			
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	95.5 %	28 d	Readily biodegradable.

12.3 Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
tetrasodium ethylene diamine tetraacetate	1.8 Measured	-3.86
caustic soda	0.89 estimated	-1.38
3-C12-18-(even numbered)-Alkylamido-N,N-dimethylpropan-1-amino oxide	71 QSAR	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	79 Measured	3.91

12.4 Mobility in soil

Component	End point	Value
tetrasodium ethylene diamine tetraacetate	Koc	1046 estimated
caustic soda	No data available	
3-C12-18-(even numbered)-Alkylamido-N,N-dimethylpropan-1-amino oxide	No data available	

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Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Koc	1640329 Measured
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12.5 Results of PBT and vPvB assessment

Component	Results
tetrasodium ethylene diamine tetraacetate	Not fulfilling PBT and vPvB criteria
caustic soda	Not fulfilling PBT and vPvB criteria
3-C12-18-(even numbered)-Alkylamido-N,N-dimethylpropan-1-amino oxide	Not fulfilling PBT and vPvB criteria
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Not fulfilling PBT and vPvB criteria

12.6 Endocrine Disrupting Properties : The mixture does not contain any substances >0.1% that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Disposal should be in accordance with local, state or national legislation.
Please recycle empty packaging.

Packaging : Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION**Land transport**

Not classified as dangerous in the meaning of transport regulations.

Sea transport

Not classified as dangerous in the meaning of transport regulations.

Air transport

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental : This safety datasheet complies with the requirements of:

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regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1272/2008 (CLP) as amended (not applicable to cosmetics)

Regulation (EC) No. 528/2012 as amended (applicable to biocidal products)

Directive (EEC) No. 75/324 as amended (applicable to aerosols)

Regulation (EC) No. 1223/2009 amended (applicable to cosmetic products)

Regulation (EC) No. 684/2001 The surfactants contained in this preparation comply with the biodegradability criteria laid down in Regulation (EC) No.648/2004 for detergents (applicable to detergents).

Directive (EC) No. 2001/95/EC - General Product Safety Directive

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

Directive 2012/18/EU Seveso

Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

SZW list of carcinogenic, mutagenic and reproductively toxic substances

15.2 Chemical safety assessment

: Where Exposure Scenarios for the substances listed in Section 3 are available they have been assessed for the uses identified in this data sheet or on the product label and the appropriate relevant information is incorporated into this Safety Data Sheet

SECTION 16: OTHER INFORMATION

If applicable, revision(s) are noted by the bold bars | | in left-hand margin.

Key abbreviations or acronyms used

EC - European Community

EEC – European Economic Community

CLP – Classification Labelling & Packaging

EN – European Standard or European Norm

PBT – Persistent, Bioaccumulative & Toxic

vPvB – very persistent, very bioaccumulative

UN – United Nations

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Evaluation methods

Unless otherwise stated in section 11, the procedure used to derive the human health classification is the relevant calculation method according to CLP regulation (EC) No 1272/2008 as amended.

Unless otherwise stated in section 12, the procedure used to derive the environmental classification is the summation of the classified components method according to CLP regulation (EC) No 1272/2008 as amended.

Full text of H-Statements

H302	Harmful if swallowed.
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.