

SAFETY DATA SHEET



Version: 1.1 Date: 10 March 2025

according to the REACH Regulation (EC) 1907/2006 as amended by Regulation UK SI 2019/758 and UK SI 2020/1577

Toilet Cleaner

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

1.1 Product identifier		
Product name	Toilet Cleaner	
Product Code	WS4	
Product type	Mixture	
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified Use(s)	Cleaning and descaling of toilet bowls.	
Uses advised against	Anything other than the above.	
1.3 Details of the supplier of the safety data sheet		
Company Identification	Thrive Sciences Ltd Unit 3, Northgate Business Park White Lund Industrial Estate Morecambe, Lancashire, LA3 3BJ	
Telephone	+44 (0) 1524 481513	
E-mail (competent person)	sales@thrive.eco	
1.4 Emergency telephone number		
Emergency Phone No.	0844 381 4708	Only available during office hours. Monday to Friday 09.00 - 17.00, GMT
Languages spoken	English	

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture		
2.1.1 Classification According to GB-CLP Regulations UK SI 2019/720 as amended	Eye Irrit 2; H319 STOT SE 3, H335	
2.2 Label elements	Labelling According to GB-CLP Regulations UK SI 2019/720 as amended	
Product name	Toilet Cleaner:	
Contains:	Citric Acid	
Hazard Pictogram(s)		
Signal Word(s)	Danger	
Hazard Statement(s)	H319 - Causes serious eye irritation. H335 - May cause respiratory irritation	
Precautionary Statement(s)	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P261: Avoid breathing dust/fume/gas/mist/vapours/spray P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection P304+ P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

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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.
P501: Dispose of contents/container to a licensed facility in accordance with national regulations

Supplemental information

None

2.3 Other hazards

The preparation contains microorganisms belonging to hazard group 1 as defined by the Advisory Committee on Dangerous Pathogens (ACDP) as unlikely to cause human disease. However it should not be assumed that infection can never occur. People who are immunocompromised should not work with this product.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures Substances in preparations / mixtures. According to Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No./Index No	REACH Registration No.	Hazard classification
Citric Acid	75 - 90	77-92-9	201-069-1/ 607-750-00-3	Not yet assigned in the supply chain	Eye Irrit. 2; H319 STOT SE 3; H335
Non-pathogenic bacteria	≤ 0.02	-	-	-	Not classified

For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures Self-protection of the first aider

No action should be taken involving personal risk. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust. Contaminated clothing should be laundered before reuse. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.

Skin contact

IF ON SKIN: Gently wash with plenty of soap and water. Remove contaminated clothing and wash clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact

Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If symptoms persist, consult a doctor.

Ingestion

IF SWALLOWED: Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: FIREFIGHTING MEASURES

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| 5.1 Extinguishing media
Suitable extinguishing media
Unsuitable extinguishing media | In case of fire: Water spray, foam, dry powder or CO2.
Do not use water jet. Direct water jet may spread the fire. |
| 5.2 Special hazards arising from the substance or mixture | No specific fire or explosion hazard. Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| 5.3 Advice for firefighters | Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

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|--|---|
| 6.1 Personal precautions, protective equipment and emergency procedures | No action should be taken involving personal risk. Provided it is safe to do so, isolate the source of the leak. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid breathing dust. |
| 6.2 Environmental precautions | Avoid release to environment |
| 6.3 Methods and material for containment and cleaning up | Sweep up spilled substance. Avoid dust generation. Use vacuum equipment for collecting spilt materials, where practicable. Transfer to a container for disposal. Recover the product where possible. Wash the spillage area with water. |
| 6.4 Reference to other sections | See Also Section: 8, 13. |

SECTION 7: HANDLING AND STORAGE

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|--|---|
| 7.1 Precautions for safe handling | When using do not eat or drink. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid breathing dust. Wash hands and exposed skin thoroughly after handling. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| 7.2 Conditions for safe storage, including any incompatibilities
Storage temperature
Incompatible materials | Keep container closed. Avoid exposure to moisture, thermal decomposition. Do not overheat
Stable at ambient temperatures. Recommended: <25 °C to prolong storage life.
Keep away from oxidising agents and strong bases.. |
| 7.3 Specific end use(s) | See Section: 1.2. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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| 8.1 Control parameters | |
| 8.1.1 Occupational exposure limits | The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m3 (8hr TWA) total inhalable dust; 4 mg/m3 (8hr TWA) total respirable dust. |
| 8.1.2 Biological limit value | Not established. |
| 8.1.3 PNECs and DNELs | None assigned |
| 8.2 Exposure controls | |
| 8.2.1 Appropriate engineering controls | Guarantee that the eye flushing systems and safety showers are located close to the working place. Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. |
| 8.2.2 Individual protection measures, such as personal protective equipment | Keep good industrial hygiene. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Do not eat, drink or smoke at the work place. Wash hands before breaks and after work. |

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Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



If in risk of eye contact: Use eye protection according to EN 166, designed to protect against dusts.

Skin protection



Hand protection:

For users with sensitive skin or for prolonged contact: Wear protective gloves. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Suitable material: PVC, Neoprene, Natural rubber

Body protection:

Wear work clothes with long sleeves.

Respiratory protection



An approved dust mask should be worn if dust is generated during handling. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.

Thermal hazards

Not applicable.

8.2.3 Environmental exposure controls

Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Off-white granulated solid
Odour	Characteristic - Citrus
Odour threshold	Not established
pH	Diluted solution 10% ~ 2 – 2.5
Melting point/freezing point	>160°C (Citric Acid)
Initial boiling point and boiling range	Not applicable - solid
Flash point	Not applicable - solid
Evaporation rate	Not applicable - solid
Flammability (solid, gas)	Not expected to be flammable
Upper/lower flammability or explosive limits	Not established
Vapour pressure	Not applicable - solid
Vapour density	Not applicable - solid
Relative density	Not established
Solubility(ies)	Not established
Partition coefficient: n-octanol/water	Not established
Auto-ignition temperature	Not expected to self-ignite.
Decomposition temperature	Not established
Viscosity	950 - 1000 cP after reconstitution as instructed
Explosive properties	Not explosive
Oxidising properties	Not classified.

9.2 Other information

None Known

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

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10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10.4	Conditions to avoid	Avoid high temperatures or direct sunlight. Avoid dust formation. Avoid contact with strong mineral acids.
10.5	Incompatible materials	Keep away from Strong bases Oxidizing agents.
10.6	Hazardous decomposition products	May give off noxious and toxic fumes in a fire.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	Acute Toxicity - Ingestion	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
	Acute Toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/l (Dusts)
	Acute Toxicity - Skin contact	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
	Skin corrosion/irritation	Mixture: Based upon the available data, the classification criteria are not met.
	Serious eye damage/irritation	Mixture: Eye Irrit. 2; H319: Causes serious eye irritation.
	Respiratory or skin sensitisation	Mixture: Based upon the available data, the classification criteria are not met.
	Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.
	Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
	Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
	STOT - single exposure	Mixture: H335 May cause respiratory irritation.
	STOT - repeated exposure	Mixture: Based upon the available data, the classification criteria are not met.
	Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.

Toxicological information on ingredients:

CITRIC ACID (CAS 77-92-9)

Acute toxicity oral (LD₅₀ mg/kg) 5400 mg/kg Species Rat

Acute toxicity dermal (LD₅₀ mg/kg) > 2000 mg/kg Rat

11.2	Other information	None.
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SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Mixture: Based upon the available data, the classification criteria are not met.
	Citric Acid (CAS: 77-92-9)	LC ₅₀ (48h) 440 mg/L, <i>Leuciscus idus melanotus</i> , (Short-term toxicity to fish) EC ₅₀ , (24h) 1535 mg/l, <i>Daphnia magna</i> , (Short-term toxicity to aquatic invertebrates)
12.2	Persistence and degradability	No data for the mixture as a whole.
	Citric Acid (CAS: 77-92-9)	Readily biodegradable.% Biodegradation (19 days): 100 (OECD301E)
12.3	Bioaccumulative potential	No data for the mixture as a whole.
	Citric Acid (CAS: 77-92-9)	The substance has low potential for bioaccumulation. Low log Kow: <3

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12.4 **Mobility in soil** No data for the mixture as a whole.

Citric Acid (CAS: 77-92-9) No data available

12.5 **Results of PBT and vPvB assessment** Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.

12.6 **Other adverse effects** None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 **Waste treatment methods** Disposal should be in accordance with local, state or national legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled. Uncleaned empties should be disposed of in the same manner as the contents. Recover or recycle if possible.

13.2 **Additional information** HP4; Irritant — skin irritation and eye damage
Waste classification according to Directive 2008/98/EC (Waste Framework Directive) HP 5; Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)	Not applicable	Not applicable	Not applicable
14.4 Packing group	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	Not applicable	Not applicable	Not applicable
14.6 Special precautions for user	Not applicable	Not applicable	Not applicable
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable		
14.8 Additional Information	None		

SECTION 15: REGULATORY INFORMATION

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

15.1.1 **EU regulations**
Authorisations and/or restrictions on use Not restricted
GB Regulations Not restricted
Detergent regulations 2004/648/EC Labelling; Contains less than 5% non-anionic surfactants, perfumes

15.1.2 **National regulations**
Wassergefährdungsklasse (Germany) Water hazard class: 1 (Self classification)

15.2 **Chemical Safety Assessment** A chemical safety assessment is not required under REACH.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

Sections indicated with the following have been revised

Previous Issue 1.0 Date: 27/02/2024

References:

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Existing Safety Data Sheets (SDSs).
GB Mandatory Classification list for; Citric Acid (CAS No. 77-92-9)
Existing ECHA registration for Citric Acid (CAS No. 77-92-9);

Classification of the substance or mixture according to The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain	Classification Procedure
Eye Irrit. 2	Threshold Calculation
STOS SE 3	Threshold Calculation

Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
DNEL	Derived No Effect Level
EC	European Community
ECHA	European Chemicals Agency
EU	European Union
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long Term Exposure Limit
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the international railway transport of dangerous goods
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
UN	United Nations
vPvB	very Persistent and very Bioaccumulative

Hazard classification / Classification code:	Hazard Statement(s)
Eye Irrit. 2; Eye Irritation, Category 2	H319: Causes serious eye irritation.
STOT SE 3; Specific Target Organ Toxicity — Single Exposure, Category 3	H335: May cause respiratory irritation.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

Exposure scenarios for substances in this preparation are not available.