



SAFETY DATA SHEET

WR S3 WASHROOM CLEANER CONCENTRATE

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

1.1. Product identifier

Product name WR S3 WASHROOM CLEANER CONCENTRATE

Internal identification C887

UFI UFI: A5F2-T0WW-D007-40TD

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

Identified uses Cleaning agent.

Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier ARROW SOLUTIONS
 RAWDON ROAD,
 MOIRA,
 SWADLINCOTE,
 DERBYSHIRE,
 DE12 6DA,
 ENGLAND
 TEL: +44 (0)1283 221044
 sales@arrowchem.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 777 8505 330 (24 hrs).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms



Signal word Danger

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Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P280 Wear protective gloves, eye and 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. P310 Immediately call a POISON CENTER/ doctor. P501 Dispose of contents/ container in accordance with national regulations.
UFI	UFI: A5F2-T0WW-D007-40TD
Contains	COCO AMIDO PROPYL BETAINE, (C9-11) ALKYL ALCOHOL ETHOXYLATE
Detergent labelling	5 - < 15% amphoteric surfactants, 5 - < 15% non-ionic surfactants, < 5% disinfectants, < 5% perfumes, Contains HEXYL CINNAMAL, LINALOOL

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

CITRIC ACID ANHYDROUS	10-30%
CAS number: 77-92-9	EC number: 201-069-1
Classification Eye Irrit. 2 - H319	
COCO AMIDO PROPYL BETAINE	5-10%
CAS number: 97862-59-4	EC number: 931-296-8
Classification Eye Dam. 1 - H318 Aquatic Chronic 3 - H412	
(C9-11) ALKYL ALCOHOL ETHOXYLATE	5-10%
CAS number: 68439-46-3	
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318	
ISOTRIDECANOL ETHOXYLATE	5-10%
CAS number: 69011-36-5	EC number: 931-138-8
Classification Eye Dam. 1 - H318 Aquatic Chronic 3 - H412	

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Quaternary ammonium compounds, benzyl-C12-16 (even numbered)-alkyldimethyl, chlorides		1-5%
CAS number: 68424-85-1	EC number: 939-350-2	
M factor (Acute) = 10	M factor (Chronic) = 1	
Classification Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
2,2',2"-NITRILOTRIETHANOL		1-5%
CAS number: 102-71-6	EC number: 203-049-8	
Classification Not Classified		

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

General information	Show this Safety Data Sheet to the medical personnel. If medical advice is needed, have product container or label at hand. Get medical attention immediately.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention immediately.
Skin contact	Rinse immediately with plenty of water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention immediately.

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

Inhalation	Coughing, chest tightness, feeling of chest pressure.
Ingestion	Gastrointestinal symptoms, including upset stomach.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x).
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5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin, eyes and clothing. Take care as floors and other surfaces may become slippery. Do not touch or walk into spilled material. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb spillage with inert, damp, non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Observe any occupational exposure limits for the product or ingredients. Wear protective gloves, eye and face protection. Avoid contact with skin, eyes and clothing. Avoid release to the environment. Do not reuse empty containers. Do not eat, drink or smoke when using this product. Do not empty into drains. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 4°C and 40°C.

Storage class Chemical storage.

7.3. Specific end use(s)

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

Occupational exposure limits

CITRIC ACID ANHYDROUS

Short-term exposure limit (15-minute): WEL 10 mg/m³ dust only

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ dust only

WEL = Workplace Exposure Limit.

CITRIC ACID ANHYDROUS (CAS: 77-92-9)

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PNEC	- Fresh water; 0.44 mg/l
	- marine water; 0.044 mg/l
	- Sediment (Freshwater); 7.52 mg/kg
	- Sediment (Marinewater); 0.752 mg/kg
	- Soil; 29.2 mg/kg

COCO AMIDO PROPYL BETAINE (CAS: 97862-59-4)

DNEL	Industry - Dermal; Long term systemic effects: 12.5
	Consumer - Dermal; Long term systemic effects: 7.5 mg/kg/day
	Industry - Inhalation; Long term systemic effects: 44 mg/m ³

PNEC	- Fresh water; 0.0135 mg/l
	- STP; 300 mg/l
	- Soil; 0.8 mg/kg
	- Sediment (Marinewater); 0.1 mg/kg
	- Sediment (Freshwater); 1 mg/kg
	- marine water; 0.00135 mg/l

Quaternary ammonium compounds, benzyl-C12-16 (even numbered)-alkyldimethyl, chlorides (CAS: 68424-85-1)

DNEL	Industry - Dermal; Long term systemic effects: 5.7 mg/kg/day
	Industry - Inhalation; Long term systemic effects: 3.96 mg/m ³
	Consumer - Oral; Long term systemic effects: 3.4 mg/kg/day
	Consumer - Dermal; Long term systemic effects: 3.4 mg/kg/day
	Consumer - Inhalation; Long term systemic effects: 1.64 mg/m ³

PNEC	- Fresh water; .0009 mg/l
	- marine water; .00096 mg/l
	- Intermittent release; .00016 mg/l
	- Sediment (Freshwater); 12.27 mg/kg
	- Sediment (Marinewater); 13.09 mg/kg
	- Soil; 7.0 mg/kg
	- STP; 0.4 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. The following protection should be worn: Chemical splash goggles.

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Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Rubber (natural, latex). Neoprene.

Other skin and body protection

Provide eyewash station.

Hygiene measures

Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

Respiratory protection

No specific requirements are anticipated under normal conditions of use. Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. Check that the respirator fits tightly and the filter is changed regularly. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P2. Organic vapour + dust and mist filter. Disposable filtering half mask respirators suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Gas and combination filter cartridges suitable for intended use should be used. Particulate filters should comply with European Standard EN143.

Environmental exposure controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Store in a demarcated bunded area to prevent release to drains and/or watercourses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Red.
Odour	Perfume.
pH	pH (concentrated solution): ~2.6 pH (diluted solution): ~3.2 @ 1:100
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not applicable.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.

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Upper/lower flammability or explosive limits	Not applicable.
Other flammability	Not applicable.
Vapour pressure	Not determined.
Relative density	~ 1.07 @ 25°C
Solubility(ies)	Completely soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.
Viscosity	Not determined.
Explosive properties	There are no chemical groups present in the product that are associated with explosive properties.
Oxidising properties	There are no chemical groups present in the product that are associated with oxidising properties.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

9.2. Other information

Other information	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not determined.
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10.4. Conditions to avoid

Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
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10.5. Incompatible materials

Materials to avoid	Avoid contact with alkalis.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x).
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD ₅₀)	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	2,884.4

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Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

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

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

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

Inhalation Coughing, chest tightness, feeling of chest pressure.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Causes skin irritation.

Eye contact Causes serious eye damage.

Acute and chronic health hazards Irritating to skin. Corrosivity to eyes is assumed. Irritation of eyes and mucous membranes.

Route of exposure Skin and/or eye contact

Target organs Eyes Skin

Medical symptoms Irritation of eyes and mucous membranes. Skin irritation.

Toxicological information on ingredients.

CITRIC ACID ANHYDROUS

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,400.0

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Species	Mouse
ATE oral (mg/kg)	5,400.0

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	2,001.0
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Species	Rat
ATE dermal (mg/kg)	2,001.0

COCO AMIDO PROPYL BETAINEAcute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	5,000.0
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Species	Rat
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(C9-11) ALKYL ALCOHOL ETHOXYLATEAcute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	301.0
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Species	Rat
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Notes (oral LD₅₀)

ATE oral (mg/kg)	301.0
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Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	2,000.1
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Species	Rat
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ATE dermal (mg/kg)	2,000.1
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Quaternary ammonium compounds, benzyl-C12-16 (even numbered)-alkyldimethyl, chloridesAcute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	397.5
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Species	Rat
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ATE oral (mg/kg)	397.5
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Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	3,412.0
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Species	Rabbit
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2,2',2"-NITRILOTRIETHANOLAcute toxicity - oral

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Acute toxicity oral (LD₅₀
mg/kg)

5,001.0

Species

Rat

ATE oral (mg/kg)

5,001.0

SECTION 12: Ecological information

Ecotoxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage Not determined.

Ecological information on ingredients.

CITRIC ACID ANHYDROUS

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 48 hours: 440 mg/l,
LC₅₀, 96 hours: 440 - 706 mg/l, Fish

COCO AMIDO PROPYL BETAINE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1.11 mg/l, Pimephales promelas (Fat-head Minnow)
LC₅₀, 96 hours: 1.1 mg/l, Cyprinodon variegatus (Sheepshead minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.9 mg/l, Freshwater invertebrates
EC₅₀, : 0.3 mg/l, Freshwater invertebrates
EC₅₀, 48 hours: 21.5 mg/l mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 48 hours: 30.0 mg/l, Marinewater algae

ISOTRIDECANOL ETHOXYLATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1 - 10 mg/l mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1 -10 mg/l mg/l, Daphnia magna

Quaternary ammonium compounds, benzyl-C12-16 (even numbered)-alkyldimethyl, chlorides

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C₅₀ ≤ 0.1

M factor (Acute) 10

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.03 mg/l mg/l, Daphnia magna

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Acute toxicity - aquatic plants EC₅₀, 96 hours: ~ 0.06 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity

M factor (Chronic) 1

2,2',2"-NITRILOTRIETHANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: < 7900 mg/l,

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 2500 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 216 mg/l,

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

General For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

Special Provisions note

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

14.2. UN proper shipping name

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Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides)

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(-)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

WR S3 WASHROOM CLEANER CONCENTRATE

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 EC₅₀: 50% of maximal Effective Concentration.
 IARC: International Agency for Research on Cancer.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 LC50: Lethal Concentration to 50 % of a test population.
 LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
 LOEC: Lowest Observed Effect Concentration.
 NOEC: No Observed Effect Concentration.
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 UN: United Nations.
 vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)
 Eye Dam. = Serious eye damage
 Eye Irrit. = Eye irritation
 Skin Corr. = Skin corrosion
 Skin Irrit. = Skin irritation
 STOT RE = Specific target organ toxicity-repeated exposure

Classification procedures according to SI 2019 No. 720

Skin Irrit. 2 - H315, Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410:
 Calculation method.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 10/03/2022

Revision 4.0

Supersedes date 05/06/2017

SDS number 31194

Hazard statements in full

H302 Harmful if swallowed.
 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.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

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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.