

# SAFETY DATA SHEET

## SURFACE DESCALER


ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830  
AS AMENDED BY UK REACH REGULATIONS SI 2019/758

Date of issue: 25/08/2023  
Version: 1.0

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

<b>1.1 Product identifier</b>		
Product name	SURFACE DESCALER	
Product code	WS3	
Product type	Mixture	
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>		
Identified Use(s)	Removal and cleaning of organic and inorganic scales on washroom surfaces.	
Uses advised against	Anything other than the above.	
<b>1.3 Details of the supplier of the safety data sheet</b>		
Company Identification	Advanced Bacterial Sciences Unit 3, Northgate Business Park White Lund Industrial Estate Morecambe, Lancashire LA3 3BJ United Kingdom	
Telephone	+44 (0) 1524 481513	
E-mail (competent person)	info@abs.eco	
<b>1.4 Emergency telephone number</b>		
Emergency Phone No.	01524 481513	Only available during office hours. Monday to Friday 09.00 - 17.00, GMT
Languages spoken	English	

### SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>		
<b>2.1.1 The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain</b>	Eye Irrit. 2; H319 STOT SE 3; H335	
<b>2.2 Label elements</b>		
Product name	SURFACE DESCALER	
Contains:	Citric Acid	
Hazard Pictogram(s)		
Signal Word(s)	WARNING	
Hazard Statement(s)	H319: Causes serious eye irritation. H335: May cause respiratory irritation.	
Precautionary Statement(s)	P280: Wear protective gloves/protective clothing/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.	

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P337+P313: If eye irritation persists: Get medical advice/attention.  
P261: Avoid breathing vapours.  
P312: Call a POISON CENTER if you feel unwell.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Supplemental information

EUH208: Contains Nerol. May produce an allergic reaction.

### 2.3 Other hazards

None Known

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

### 3.2 Mixtures

Classification: The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain

Chemical identity of the substance	%W/W	CAS No.	EC No.	UK-REACH Registration No.	Hazard classification
Citric Acid	40 - 45	77-92-9	201-069-1	Not yet assigned in the supply chain	Eye Irrit. 2; H319 STOT SE 3; H335
Nerol	0.1 – 0.5 ≤	106-25-2	203-378-7	Not yet assigned in the supply chain	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Dam 1; H318

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. Contaminated clothing should be laundered before reuse. Avoid breathing vapours. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. If irritation develops and persists, get medical attention.

Ingestion

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell. If possible show this SDS. Failing this, show the packaging or label.

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

Causes serious eye irritation. May cause respiratory irritation. May produce an allergic reaction.

### 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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|--|--|
| <b>5.1 Extinguishing media</b><br>Suitable extinguishing media<br>Unsuitable extinguishing media | In case of fire, use water spray, foam, dry powder or CO2 for extinction.<br>Do not use water jet. Direct water jet may spread the fire.   |
| <b>5.2 Special hazards arising from the substance or mixture</b>                                 | In case of fire may be liberated: Carbon monoxide, Carbon dioxide  |
| <b>5.3 Advice for firefighters</b>   | Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Do not allow to enter into surface water or drains. |

### SECTION 6: ACCIDENTAL RELEASE MEASURES

- |  |   |
|--|---|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b> | 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 breathing vapours. Avoid contact with skin and eyes. Ensure adequate ventilation. Remove contaminated clothing and wash all affected areas with plenty of water. When using do not eat or drink. |
| <b>6.2 Environmental precautions</b>   | Not applicable.   |
| <b>6.3 Methods and material for containment and cleaning up</b>                | Stop leak if safe to do so. Clean surface thoroughly to remove residual contamination. Use non-sparking tools. Adsorb spillages onto sand, earth or any suitable adsorbent material. Never return spills in original containers for re-use. Ventilate the area and wash spill site after material pick-up is complete.  |
| <b>6.4 Reference to other sections</b>   | See sections 8 and 13.  |

### SECTION 7: HANDLING AND STORAGE

- |   |  |
|---|--|
| <b>7.1 Precautions for safe handling</b>                                | Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Wear protective gloves and eye/face protection. Wash hands before breaks and after work. Ensure adequate ventilation. Avoid breathing vapours. Avoid contact with skin and eyes. Do not eat, drink or smoke at the work place.            |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> | Keep only in original packaging. Keep container tightly closed and in a well-ventilated place. Protect from direct sunlight. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep/Store only in original container.<br>Ambient temperatures. |
| storage temperature<br>Incompatible materials                           | Keep away from oxidising agents and strong bases.  |
| <b>7.3 Specific end use(s)</b>  | See section: 1.2   |

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- |   |  |
|---|--|
| <b>8.1 Control parameters</b>                 |  |
| <b>8.1.1 Occupational exposure limits</b>     | None assigned  |
| <b>8.1.2 Biological limit value</b>           | None assigned  |
| <b>8.1.3 PNECs and DNELs</b>                  | None assigned  |
| <b>8.2 Exposure controls</b>                  |  |
| <b>8.2.1 Appropriate engineering controls</b> | 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. |

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### 8.2.2 Individual protection measures, such as personal protective equipment

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. Take care for general good hygiene and housekeeping. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Wash contaminated clothing before reuse. Avoid contact with skin, eyes and clothes. Ensure safe systems of work or equivalent arrangements are in place to manage risks.

Eye/ face protection



Wear eye protection with side protection (EN166).

Skin protection



Hand protection: Wear impervious gloves (EN374). Suitable material: PVC, Nitrile rubber.

Body protection: Suitable material: Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Recommended: EN143 Type A-P2

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	Citrus
Odour threshold	No data available
pH	3.5 – 4.5 after reconstitution as instructed
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	> 100 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	Highly soluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	> 100 °C
Decomposition temperature	> 100 °C
Viscosity	0 – 5 cP after reconstitution as instructed
Explosive properties	No data available
Oxidising properties	Non-oxidising (by EC criteria)

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9.2 Other information None Known

### SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions
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 contact with Strong mineral acids.
10.5	Incompatible materials	Keep away from oxidising agents and strong bases.
10.6	Hazardous decomposition products	In case of fire may be liberated: Carbon monoxide and carbon dioxide.

### 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. Citric Acid Eye Irrit. 2; H319: Causes serious eye irritation.
	Respiratory or skin sensitisation	Irritating to eyes. (rabbit) (OECD 405) Mixture: EUH208: Contains Nerol. May produce an allergic reaction. Nerol Skin Sens. 1B; H317: May cause an allergic skin reaction.
	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 STOT SE 3; H335: May cause respiratory irritation. Citric Acid STOT SE 3; H335: May cause respiratory irritation.
	STOT - repeated exposure	NOEL: 1000 mg/kg bw/day 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.
11.2	Other information	None

### SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Mixture: Based upon the available data, the classification criteria are not met.
12.2	Persistence and degradability	No data for the mixture as a whole. Citric Acid Readily biodegradable. Degradation rate (%): 100 (19 days) (OECD301E) Nerol Readily biodegradable. Degradation rate (%): 90 (28 days) (OECD 301D)
12.3	Bioaccumulative potential	No data for the mixture as a whole. Citric Acid The substance has low potential for bioaccumulation. log Kow: <3 Nerol The substance has no potential for bioaccumulation. BCF: 30.76 L/kg BCFBAF model (v3.01)
12.4	Mobility in soil	No data for the mixture as a whole. Citric Acid The product has high mobility in soil. Log Koc: 3-4 Nerol The product has moderate mobility in soil. Log Koc: 2.155
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.

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

### SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	IMDG	IATA/CAO
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	See section 2		
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable	Not applicable	Not applicable

### 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  
RoHS – EEE Substance Inventory Citric acid: listed  
GB regulations Not restricted  
GB CLP – mandatory classification and labelling list Citric acid: listed  
PIC (Prior Informed Consent) Regulation Not restricted  
Poisons Act Not restricted  
UK REACH – Grandfathered registration notified substances Citric acid: listed  
UK REACH – Annex XVII (Restrictions) Not restricted

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

15.2 Chemical Safety Assessment A REACH chemical safety assessment has not been carried out.

### SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable - V1.0

References: Existing ECHA registration(s) for: Nerol (CAS No. 106-25-2), Citric Acid (CAS No. 77-92-9)  
Harmonised Classification(s) for: Citric Acid (CAS No. 77-92-9)

Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.  
Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Classification of the substance or mixture. The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain	Classification procedure
Eye Irrit. 2; H319	Threshold Calculation
STOT SE 3; H335	Threshold Calculation
EUH208	Threshold Calculation

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### Legend

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor (BCF)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long term exposure limit
OECD	Organisation for Economic Cooperation and Development
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short-term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative

### Hazard classification / Classification code:

Skin Irrit. 2; Causes skin irritation, Category 2  
Skin Sens. 1; Skin sensitization, Category 1  
Eye Dam. 1; Eye Damage, Category 1  
Eye Irrit. 2; Eye Irritation, Category 2  
STOT SE 3; Specific Target Organ Toxicity — Single Exposure, Category 3

### Hazard Statement(s)

H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
  
EUH208: Contains Nerol. May produce an allergic reaction.

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

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Active Bacterial Solutions gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Active Bacterial Solutions accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

### Annex to the extended Safety Data Sheet (eSDS)

Exposure scenarios for substances in this preparation are not available.