SAFETY DATA SHEET

CLEAN SOLUTIONS MACHINE DISHWASH DETERGENT

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

1.1. Product identifier

Product name Clean Solutions Machine Dishwash Detergent

Product number TWGCS009

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

Identified uses Auto dishwasher detergent, Machine dishwash liquid.
For professional use only.

Uses advised against Only use as directed for machine dishwashing. Do not ingest or use for any other purposes.

1.3. Details of the supplier of the safety data sheet

Supplier

The Wholesale Group,
Cotswold Business Centre,
2 AP Ellis Road,
Upper Rissington,
Cheltenham GL54 2QB
Tel: +44 (0) 1422 319100

1.4. Emergency telephone number

National emergency telephone number In case of a medical emergency following exposure to a chemical call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Corr. 1A - H314 Eye Dam. 1 - H318

Environmental hazards Not Classified

2.2. Label elements

Symbols

Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

Precautionary statements P101 If medical advice is needed, have a product container or label at hand.
P102 Keep out of reach of children.

P103 Read label before use.
P15 Restricted to professional users only.
P260 Do not breathe vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P 315 get immediate medical attention/advice.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with local regulations.

Contains Sodium Hydroxide

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Mixtures

SODIUM HYDROXIDE	**5 - 10 %**
CAS Number: 1310-73-2 EC Number: 215-185-5	

SECTION 4: First aid measures

4.1. Description of first aid measures

General Advice Seek immediate medical attention in all cases of exposure. Ensure an eyewash station and safety shower are available for use.

Inhalation Remove the affected person from the source of contamination. Keep them warm and at rest. Seek immediate medical attention. If breathing difficulties occur, administer oxygen as necessary.

Ingestion Do not administer anything by mouth to an unconscious person. Rinse the mouth thoroughly with water. Provide the affected person with plenty of water to drink. Do not induce vomiting. Seek immediate medical attention. Show the Safety Data Sheet to medical personnel.

Skin Contact Remove the person from the contaminated area. Take off any contaminated clothing. Wash the skin thoroughly with soap and water. Seek prompt medical attention if symptoms persist after washing.

Eye Contact Immediately remove the person from the source of contamination. Remove contact lenses if present and open the eyelids wide. Rinse the eyes with water for at least 15 minutes. Seek immediate medical attention and continue rinsing during transport.

Protection of First Aiders First aid responders should wear appropriate personal protective equipment to prevent exposure during rescue or treatment.

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

General Information The severity of symptoms will vary depending on the concentration and duration of exposure. Chemical burns should be treated by a medical professional. Seek immediate medical attention.

Inhalation Severe irritation of the nose and throat. May induce asthma-like symptoms, including shortness of breath.

Ingestion This product is corrosive. Even small amounts can cause significant damage, including chemical burns to the mouth, oesophagus, and stomach.

Skin Contact May cause severe chemical burns to the skin. Can also cause skin irritation.

Eye Contact This product is corrosive. A single exposure may result in severe irritation, burning, tearing, and blurred vision. Prolonged contact can lead to serious eye and tissue damage, including corneal damage.

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

Notes for the doctor Immediately remove contaminated clothing and wash the affected skin thoroughly with soap and water. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media This product is non-flammable. Use fire-extinguishing media suitable for the surrounding fire, such as foam, carbon dioxide, or dry powder.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion Products When in contact with certain metals, this product may generate hydrogen gas, which can form explosive mixtures with air. Avoid contact with materials such as aluminium and zinc. Do not allow contact with water, as this may generate heat.

5.3. Advice for firefighters

Protective actions during firefighting Prevent run-off water from entering sewers or watercourses by containing the spill.

Special protective equipment for firefighters	Firefighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as specified in Section 8 of this Safety Data Sheet. Wear self-contained breathing apparatus (SCBA) and appropriate protective clothing, including gloves and eye/face protection. Dilute with plenty of water. Prevent the uncontrolled discharge of the product into the environment. Evacuate non-essential personnel from the area.

6.2. Environmental precautions

Environmental precautions	Minimise the risk of environmental contamination. Any spillages or uncontrolled releases into watercourses must be reported immediately to the Environment Agency or other relevant regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Do not touch or walk through spilled material. Stop the leak if it is safe to do so. **Small Spills:** Flush the area with plenty of water. **Large Spills:** Absorb the material with vermiculite, dry sand, or earth and place it into suitable containers. After absorption, flush the contaminated area with plenty of water. Collect and dispose of waste in appropriate containers and seal securely.

6.4. Reference to other sections

Reference to other sections	For waste disposal information, refer to Section 13. For additional health hazard information, refer to Section 11. Emergency contact details are provided in Section 1.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Avoid contact with skin and eyes. Prevent spillage. Wear protective clothing as outlined in Section 8 of this Safety Data Sheet. Avoid the formation of mists and ensure adequate ventilation during use. Do not mix with other chemicals or detergents.
Advice on general occupational hygiene	Implement good personal hygiene practices. Do not eat, drink, or smoke while handling this product. Wash hands thoroughly after use. Eye wash facilities and emergency shower must be available when handling this product. If skin contamination occurs, wash promptly with soap and water. Immediately remove and wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well - ventilated place. Store at temperatures between 5°C and 25°C. Keep out of the reach of children. Keep away from incompatible materials such as acids and oxidising agents.

Storage Class Corrosive

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

Sodium Hydroxide
Short-term exposure limit (15-minute): WEL 2 mg/m³
WEL = Workplace Exposure Limit.

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL Industry - Inhalation; Long term local effects: 1.0 mg/m³
Consumer - Inhalation; Long term local effects: 1.0 mg/m³

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES (CAS: 68515-73-1)

DNEL
Workers - Inhalation; Long term systemic effects: 420 mg/m³
Workers - Dermal; Long term systemic effects: 595000 mg/kg/day
General population - Inhalation; Long term systemic effects: 124 mg/m³
General population - Dermal; Long term systemic effects: 357000 mg/kg
General population - Oral; Long term systemic effects: 35.7 mg/kg

PNEC
- Fresh water; 0.176 mg/l
- marine water; 0.0176 mg/l
- Intermittent release; 0.27 mg/l
- STP; 560 mg/l
- Sediment (Freshwater); 1.516 mg/l
- Sediment (Marinewater); 0.152 mg/l

8.2. Exposure controls

Protective Equipment

Appropriate engineering Controls Ensure adequate ventilation to avoid inhalation of vapours. Adhere to any occupational exposure limits for the product or its ingredients, as applicable.

Personal Protection This document does not constitute a Risk or COSHH assessment. The information provided should be used to conduct a thorough risk assessment for your specific workplace. The data refers to the undiluted product as supplied. In-use solutions may have extreme pH

	levels, so gloves and eye protection should be worn if a risk of exposure is identified.
Eye/face protection	During the manufacturing and filling of this product, eye protection is recommended (refer to EN166). In normal use, eye protection should be worn if there is a risk of eye contact (e.g., splashing, dripping, or leaking from pumps/hoses).
Hand protection	Wear protective gloves made of neoprene, nitrile rubber, polyethylene, or polyvinyl chloride (PVC). The gloves should have a breakthrough time of >60 minutes. Regularly inspect gloves for damage.
Other skin and body Protection	Wear appropriate protective clothing to prevent skin contact with the product.
Hygiene measures	Provide an eyewash station and safety shower in the workplace. Wash hands at the end of each work shift, before eating, drinking, smoking, or using the toilet. Immediately wash any skin that becomes contaminated. Remove contaminated clothing promptly and wash before reuse.
Respiratory protection	No specific recommendations for general use. However, if airborne contamination exceeds the recommended occupational exposure limit, respiratory protection must be used. A particulate filter, type P2, should be worn. Filters should comply with European Standard EN143.
Environmental exposure controls	Take measures to prevent release into the environment. Residues and empty containers should be handled as hazardous waste in accordance with local and national regulations.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless.
Odour	Odourless.
Odour threshold	Not applicable.
pH	pH (concentrated solution): >13
Relative density	1.01 - 1.15
Solubility(ies)	Soluble in water.
Explosive under the influence of a flame	Not considered to be explosive.
Comments	Information given is applicable to the product as supplied.

9.2. Other information

Other information	Not relevant.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	When stored and used properly, no reactions are expected. However, mixing with other chemicals may cause unexpected reactions. This solution is highly alkaline and generates heat when it reacts with strong acids. Reacting with aluminum, zinc, tin, copper, or their alloys can produce flammable hydrogen gas.

10.2. Chemical stability

Stability	Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous Acids.	Violent reactions may occur with: Chlorohydrocarbons and reactions Reactions with water may generate heat.

10.4. Conditions to avoid

Conditions to avoid	Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid	Strong Acids. Aluminium. Tin. Zinc. Ammonia. Chlorinated hydrocarbons.

10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. However, hydrogen may be released in reactions with metals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Information given is based on data of the components and of similar products.
Other health effects	Does not contain any substances known to be carcinogenic.

Acute toxicity - oral

Notes (oral LD_{50})	Based on available data the classification criteria are not met

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) Based on available data the classification criteria are not met.

Skin corrosion/irritation Causes severe burns.

Skin corrosion/irritation

Serious eye damage/irritation Causes serious eye damage.

Serious eye damage/irritation

Respiratory sensitisation

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

Skin sensitisation

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

Specific target organ toxicity - repeated exposure

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

General information This product is corrosive to the skin and eyes.

Inhalation Inhalation of spray or mist may cause irritation to the respiratory tract, with a single exposure potentially leading to coughing, difficulty breathing, and damage to the mucous membranes in the nose, throat, lungs, and bronchial system.

Ingestion The product may cause burns to the mucous membranes, throat, esophagus, and stomach.May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.

Skin contact Prolonged or repeated exposure may cause dryness, redness or Irritation can also result in serious chemical burns, and repeated exposure may lead to skin dryness or cracking.

Eye contact The product may cause burns, and a single exposure can lead to corneal damage. Contact with concentrated product can rapidly cause severe eye damage, potentially resulting in loss of sight.

SECTION 12: Ecological Information

Ecotoxicity No ecotoxicity data.

12.1. Toxicity

Toxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have harmful effects on the environment. The product may affect the acidity (pH) of water, potentially having hazardous effects on aquatic organisms.

12.2. Persistence and degradability

Persistence and degradability Degrades very slowly in nature.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

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 known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous. Dispose of waste at a licensed waste disposal site, following the requirements of the local Waste Disposal Authority. When handling waste, the same safety precautions as for the product should be applied.

Disposal methods Ensure that the packaging is empty (drop-free when inverted). Wash with plenty of water before disposal. Dispose of the waste through a licensed waste disposal contractor. Reuse or recycle the product and packaging where possible.

SECTION 14: Transport information

14.1. UN number 1824

14.2. UN proper shipping name Sodium Hydroxide Solution

14.3. Transport hazard class(es) 8

14.4. Packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

IMDG Code segregation group	18. Alkalis
EmS	F-A, S-B
ADR transport category	2
Emergency Action Code	2R
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

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

National regulations

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
EH40/2005 Workplace exposure limits.
The Hazardous Waste Regulations 2005.
Control of Pollution (Special Waste) Regulations 1980 (as amended).
The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577) (as amended).
The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 696) (as amended).
The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit)
Regulations 2019 (SI 2019 No. 583) (as amended).
The Detergents Regulations 2010 (SI 2010 No. 740) (as amended).
The Detergents (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 612) (as amended).
The Detergents (Safeguarding) (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 671) (as amended).
The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EU legislation	European Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (as amended) European Regulation (EC) No 1907/2006 - Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended) European Regulation (EC) No 648/2004 on detergents (as amended) Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) 1907/2006. Waste Material Code 91/689/EEC
Guidance	COSHH Essentials. Technical Guidance WM2: Hazardous Waste. ECHA Guidance on the Application of the CLP Criteria. ECHA Guidance on the compilation of safety data sheets. Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No data available on this product.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	EWC European Waste Catalogue STOT RE = Specific target organ toxicity-repeated exposure PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. PNEC: Predicted No Effect Concentration. DNEL: Derived No Effect Level.
Date	05/12/2025
SDS Number	0512253
Hazard statements in full	H290 May be corrosive to metals 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. H412 Harmful to aquatic life with long lasting effects.

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.