SAFETY DATA SHEET

CLEAN SOLUTIONS HEAVY DUTY DEGREASER

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

1.1. Product identifier

Product name	Clean Solutions Heavy Duty Degreaser
Product number	TWGCS007

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

Identified uses	Industrial degreaser, cleaning agent for heavy-duty applications. - Professional use only.
Uses advised against	Only use as directed. 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	Met. Corr. 1 - H290
Health hazards	Skin Irrit. 1B - H314 Eye Dam. 1 - H318
Environmental hazards	Not Classified

2.2. Label elements

Symbols

Signal word	Danger
Hazard statements	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
Precautionary statements	P102 Keep out of reach of children.

P15 Restricted to professional users only.
P234 Keep only in the original container.
P260-Do not breath mist.
P280 Wear protective clothing and gloves.
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/ 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.
P313 Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with local regulations

Contains < 5% non-ionic surfactant, Sodium Hydroxide, <5% anionic surfactant, <5% chelating agents and IPA.

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 CAS Number 1310-73-2 EC Number 215-185-5 REACH Registration Number: 01- 2119457892-27	**1 - 5%**
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT CAS Number: 6381-92-6 EC Number:205-358-3 REACH Registration Number: 01-2119486775-20	**1 - 5%**
SODIUM LAURYL ETHER SULPHATE CAS Number 68891-38-3 EC Number 500-234-8 REACH Registration Number: 01-2119488639-16-XXXX	**1 - 5%**

SECTION 4: First aid measures

4.1. Description of first aid measures

General Information Seek medical attention immediately. Show this SDS to the doctor.

Inhalation Move the affected person to fresh air. Rinse nose and mouth with water. Provide rest and warmth. If breathing is difficult, administer oxygen. Seek medical attention if symptoms persist.

Skin contact Remove contaminated clothing and rinse skin with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

Eye contact	Remove contact lenses if present. Rinse eyes thoroughly with plenty of water for at least 15 minutes while keeping eyelids open. Seek immediate medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting. Rinse your mouth thoroughly with water. If unconscious, place in the recovery position and ensure breathing can occur. Seek immediate medical attention.

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

Ingestion	Ingestion is unlikely unless intentionally misused. Swallowing the undiluted chemical can cause severe burns to the mouth, throat, and digestive tract. If ingested in a diluted form, it may lead to soreness, redness, and blistering in these areas.
Inhalation	Inhalation of the undiluted product is unlikely under normal conditions. However, exposure to mists or vapors of the diluted product may cause irritation, discomfort, or potential burns to the mouth, nose, and respiratory system.
Skin contact	May cause burns, redness, irritation, and dryness.
Eye contact	Can cause irritation, redness, blurred vision, and corneal damage. Prolonged or repeated exposure may lead to serious eye damage.

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

Notes for the doctor	Contains surfactants, chelating agents, and sodium hydroxide in a water-based solution. Rinse thoroughly with water until a neutral pH is Achieved. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	The product is non-combustible in its formulation. However, when in contact with metals such as Aluminum and Zinc (and their alloys), hydrogen gas may be produced, which could form an explosive mixture with air. Irritating gases or vapors may be released. Please note these comments refer to only neat products.

5.3. Advice for firefighters

Protective actions during firefighting	Control run-off water by containing and keeping it out of sewers and watercourses. While tacking fire for this product protective covering and respiratory protection should be worn.

Special protective equipment for firefighters Wear 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 For personal protection see Section 8. Beware of slippery floors and surfaces in case of spills.

6.2. Environmental precautions

Environmental precautions Collect and dispose of spillage as indicated in Section 13. Do not discharge into drains or watercourses or onto the ground. Uncontrolled discharges of this product should be reported immediately to the Environmental Agency of the local regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop the leak if it is safe to do so and no further risk to personnel is involved. Absorb the spilled material using vermiculite, sand, or earth and place the absorbed material into suitable containers. Collect and place the spillage into properly sealed containers for safe disposal or reclamation. Ensure that all containers used for the spillage are properly labelled with the correct contents and associated hazard symbols.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Ensure proper ventilation. Avoid spills and direct contact with skin and eyes. Use protective clothing as specified in Section 8 of this SDS. Do not inhale vapors or spray. Avoid mixing with other household chemicals or acids.

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 and away from heat, hot surfaces, sparks, open flames, and other ignition sources. Smoking is prohibited.

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 (CAS: 1310-73-2)

DNEL
Industry - Inhalation; Long term local effects: 1.0 mg/m3
DNEL data for Professional users is not yet available, but it is assumed to be the same as for Industrial users.
Industry - Dermal; Short term local effects: 2%

PNEC
No information is available for PNEC data for Sodium Hydroxide

C12-14-ALKYL ETHER SULFATES (CAS: 68891-38-3)

DNEL
Workers - Inhalation; Long term systemic effects: 175 mg/m³
Workers - Dermal; Long term systemic effects: 2750 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 52 mg/m³
Consumer - Dermal; Long term systemic effects: 1650 mg/kg/day
Consumer - Oral; Long term systemic effects: 15 mg/kg/day

PNEC
- Fresh water; 0.24 mg/l
- Marine water; 0.024 mg/l
- Intermittent release; 0.071 mg/l
- Sediment, Fresh water; 0.917 mg/kg
- Sediment, Marine water; 0.092 mg/kg
- Soil; 7.5 mg/kg
- STP; 10,000 mg/l

ALKYL DIMETHYL AMINE OXIDE (CAS: 308062-28-4)

DNEL
Professional - Dermal; Long term systemic effects: 11 mg/kg/day
Professional - Inhalation; Long term systemic effects: 15.5 mg/m3 8h
Professional - Dermal; Long term local effects: 0.27 %
General population - Dermal; Long term systemic effects: 5.5 mg/kg/day
General population - Inhalation; Long term systemic effects: 3.8 mg/m³
General population - Oral; Long term systemic effects: 0.44 mg/kg/day

PNEC
- Fresh water; 0.0335 mg/l
- marine water; 0.00335 mg/l
- Intermittent release; 0.0335 mg/l
- Sediment (Freshwater); 1.02 mg/kg
- Sediment (Marinewater); 24 mg/kg
- Soil; 1.02 mg/kg - STP; 24 mg/kg

ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT (CAS: 64-02-8)

DNEL
Professional - Inhalation; Long term systemic effects: 1.5 mg/m³

PNEC
- Fresh water; 2.86 mg/l
- marine water; 0.286 mg/l
- Intermittent release; 1.56 mg/l
- Soil; 0.937 mg/kg, mg/kg dwt
- STP; 55.94 mg/kg

8.2. Exposure controls

Protective Equipment

Appropriate engineering Controls

To minimize worker exposure to this product, particularly in processes where dust, fumes, vapors, mist, or gas may be generated, suitable engineering controls should be employed. This may include process enclosures, local exhaust ventilation (LEV), or other ventilation systems designed to keep airborne concentrations below recommended or statutory exposure limits. The choice of ventilation should be based on the product's properties and the work environment.

Personal Protection

The Personal Protective Equipment (PPE) described below is intended to guide you in ensuring worker safety throughout the product's lifecycle, from manufacture to disposal. Employers are responsible for conducting a COSHH (Control of Substances Hazardous to Health) Risk Assessment to determine the appropriate level of PPE required for their specific conditions. The recommendations below support this process and can be adapted based on the findings of the risk assessment. Where possible, it is advisable to replace manual handling with automated or closed systems to minimize direct contact with the product.

Eye/face protection

If there is a risk of splashing, employees should wear safety goggles or a face shield that comply with EN 166 standards. This ensures adequate protection against splashes of the product.

Hand protection

Wear chemical-resistant gloves that are impervious to the product. Recommended materials include: Butyl Rubber, PVC, or Polychloroprene gloves, with a minimum thickness of 0.5mm and a breakthrough time of at least 480 minutes.Alternatively, Nitrile Rubber or Fluorinated Rubber gloves with a thickness of 0.35 - 0.4mm and a breakthrough time of >480 minutes. Glove selection should be made in accordance with EN 374 and EN 16523 standards for protective gloves.

Other skin and body Protection

Appropriate protective clothing and footwear should be worn if there is a risk of skin contamination. Chemical-resistant aprons, gloves, and boots should meet relevant standards, such as EN 13832 for footwear and EN 943 for protective clothing.

Hygiene measures

Do not eat, drink, or smoke while using the product. Use a suitable skin cream to prevent dryness. Promptly remove any contaminated clothing and footwear, and discard them if necessary. Provide access to emergency eyewash stations and safety showers in areas where there is a risk of exposure. Ensure that workers practice good hygiene by washing hands thoroughly after handling the product and before eating, drinking, or smoking.

Respiratory protection

While no specific respiratory protection is required under normal use, it should be used if workplace exposure limits are exceeded. If dust, aerosol, or vapor is generated (e.g., when spraying or working with hot surfaces), workers should wear respirators with an approved filter (P2). Ensure that appropriate filters are used based on the specific contaminants present.

Environmental exposure

To prevent environmental contamination, do not allow the product or its

Controls	solutions to enter drains, watercourses, or ground water. Discharge into effluent systems (including municipal drains) or surface water may result in significant changes to the pH. Therefore, it is important to minimize the potential for pH changes when disposing of solutions. In some cases, the use of pH buffering techniques may be necessary. Before discharging solutions into any system, users should consult local environmental authorities to ensure compliance with any discharge regulations and obtain necessary permits or approvals.
General Health & Safety **Measures**	The above recommendations are for the neat product. A diluted 5% solution of this product may not require full PPE, but we recommend: Eye protection to prevent any splashes. Gloves should be worn when handling the product in all stages of its use, including manufacture and distribution.

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Light to pale Yellow
Odour	Odourless.
Odour threshold	Not applicable.
pH	pH (concentrated solution): >12
Relative density	1.00 - 1.08
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.

10.2. Chemical stability

Stability	Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous Reactions	Refer to Section 10.1. Avoid mixing with acids, as this can generate heat and release corrosive vapors.

10.4. Conditions to avoid

Conditions to avoid	Avoid exposure to high temperatures or direct sunlight for a prolonged duration of time.

10.5. Incompatible materials

Materials to avoid	Strong acids. Reacting with aluminum, zinc, tin, copper, or their alloys can produce flammable hydrogen gas.

10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. See section 10.5.

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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	
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	
Serious eye damage/irritation	Causes severe eye damage.
Respiratory sensitisation	There is no evidence of respiratory sensitisation for any component of this formulation. Under normal handling conditions, it is unlikely to cause respiratory sensitisation.
Skin sensitisation	There is no evidence of skin sensitisation for any component of this formulation. The product is corrosive to the skin, but it is not expected to cause allergic reactions under normal conditions of use.

Germ cell mutagenicity

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

Carcinogenicity The components of this formulation are corrosive to the skin and

Carcinogenicity respiratory tract. However, under normal handling conditions, these components are not expected to be systemically available in the body, and as a result, it is not expected to pose a carcinogenic risk.

Reproductive toxicity Fertility: The components of this formulation are corrosive to the skin

Reproductive toxicity - fertility and respiratory tract but are not expected to be systemically absorbed under normal conditions of use. Therefore, it is not expected to be toxic to the reproductive system or to affect fertility or the developing fetus.

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 The primary toxic effects associated with this product are linked to its corrosive properties. Refer to Section 4.2 (First Aid Measures) for further information on health risks related to exposure.

Inhalation Unlikely route of exposure in normal use, but inhalation of mist, vapors, or sprayed droplets may result in irritation of the throat, mouth, and nose. In such cases, the affected person should seek immediate medical attention if symptoms persist. See Section 4.2 for First Aid measures.

Ingestion Ingestion of this product may cause severe chemical burns to the mouth, esophagus, and stomach. This is a highly corrosive substance and ingestion is likely to cause immediate damage. Immediate medical attention is required if ingested.

Skin Contact Skin contact with this product can cause severe burns. It is highly corrosive and can lead to permanent tissue damage. Immediate action should be taken to rinse the affected skin with plenty of water and seek medical attention.

Eye Contact Eye contact with this product poses a serious risk of permanent damage to the eyes. It can cause severe eye injury, and potentially permanent vision loss if not treated immediately. Immediate rinsing with water for at least 15 minutes is crucial. Seek medical attention immediately

SECTION 12: Ecological Information

Ecotoxicity This product is not classified as hazardous to the environment under normal conditions of use. However, it contains components that are classified as very toxic to the aquatic environment in their neat form. These components may pose a significant risk to aquatic life if released into the environment in large quantities.

12.1. Toxicity

Toxicity Normal use of diluted products is unlikely to pose a risk as mentioned in 12 above.

12.2. Persistence and degradability

Persistence and degradability This product primarily consists of inorganic components, for which biodegradation assessment is not applicable. The product complies with the European Detergents Regulation (648/2004),

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 generation should be minimised wherever possible.

Disposal methods Handling Waste: Follow the same safety precautions as for the product. Do not mix with other chemicals. Disposal must comply with environmental protection and waste disposal legislation. Consult local authorities for disposal requirements. Dispose of empty containers in an environmentally responsible manner.

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SECTION 14: Transport information

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

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 III

14.5 Transport Label

14.6. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.7. Special precautions for user
EmS: F-A, S-B
Emergency Action Code: 2R
Hazard Identification Number (ADR/RID): 80

14.8. 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.
EU legislation	European Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures. This replaces Directive 67/548/EEC - Classification, Packaging and Labelling of Dangerous Substances and Regulation (EC) No. 453/2010 relating to the Classification, Packaging and Labelling of Dangerous Preparations. Also considered is the REACH Regulation (EC) No.1907/2006.
Guidance	COSHH Essentials. ECHA Guidance on the Application of the CLP Criteria. ECHA Guidance on the compilation of safety data sheets.

15.2. Chemical safety assessment
No data available on this product.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	PBT: Persistent, Bioaccumulative and Toxic substance vPvB: Very Persistent and Very Bioaccumulative.
Date	05/12/2025
SDS Number	0512252
Risk Phrases in full	R20 Harmful by inhalation. R35 Causes severe burns. R36 Irritating to eyes.

R22 Harmful if swallowed.
R34 Causes burns.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.

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.
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
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.