
SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: Solution D Water Additive
- Contains lauryl betaine

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

- Use of the substance/mixture: For professional use only; Solely to be used with the ELM range of Disc Repair Machinery as per the operating instructions.
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Total Disc Repair Ltd
- Address of Supplier: Unit 1
Christchurch Business Park
Radar Way
Christchurch
Dorset
BH23 4FL
UK
- Telephone: +44 (0) 1202 489 500
- Email: support@totaldiscrepair.com

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 1202 489 500

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319
- Additional information: For full text of Hazard- and EU Hazard-statements: see section 16

2.2 Label elements



- Signal Word: Warning
- Hazard statements
 - H315 - Causes skin irritation.
 - H317 - May cause an allergic skin reaction.
 - H319 - Causes serious eye irritation.
- Precautionary statements
 - P264 - Wash hands thoroughly after handling.
 - P280: Wear protective gloves/protective clothing/eye protection/face protection.
 - P302+P352+P333+P313 - IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
 - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 2: Hazards identification (....)

- Supplemental Hazard information (EU)
None

2.3 Other hazards

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1 Substances

3.2 Mixtures

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	WEL /OEL
Lauryl betaine; (Carboxylatomethyl)dodecyl dimethylammonium	30 - 40%	683-10-3	211-669-5	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319	No
Magnesium chloride hexahydrate	<10%	7786-30-3	232-094-6	Not Classified	No

Information on ingredients as required by the Detergents Regulation (EC 684/2004, 907/2006)

Chemical Name	INCI Name	PH.EUR. Name	CAS No.	Conc.
Water	AQUA	Aqua	7732-18-5	10% or more
(Carboxylatomethyl)dodecyl dimethylammonium	LAURYL BETAINE	-	683-10-3	10% or more
Magnesium chloride hexahydrate	MAGNESIUM CHLORIDE	Magnesii chloridum	7786-30-3	1% or over, but less than 10%

SECTION 4: First aid measures

4.1 Description of first aid measures

- Contact with eyes
If substance has got into eyes, immediately wash out with plenty of water for several minutes
Irrigate eyes thoroughly whilst lifting eyelids
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
- Contact with skin
Take off contaminated clothing and wash it before reuse.
Wash affected area with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention.
- Ingestion
Rinse mouth with water (do not swallow)
Give 200-300mls (half pint) water to drink
Do not induce vomiting unless directed by medical personnel.
Get medical advice/attention.
- Inhalation
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Keep warm and at rest, in a half upright position. Loosen clothing

SECTION 4: First aid measures (....)

IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- Contact with eyes
Causes redness and irritation
- Contact with skin
Causes redness and irritation
May cause allergic reaction in susceptible people
- Ingestion
May cause nausea/vomiting
May cause gastro-intestinal disturbances
- Inhalation
May cause respiratory irritation

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
-

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media: water spray; foam; dry powder; carbon dioxide
- Unsuitable extinguishing media: high volume water jet

5.2 Special hazards arising from the substance or mixture

- In a fire or if heated, a pressure increase will occur and the container may burst
- Gives off irritating or toxic fumes (or gases) in a fire.

5.3 Advice for firefighters

- Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
 - Keep container(s) exposed to fire cool, by spraying with water
 - Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.
-

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Rescuers should take suitable precautions to avoid becoming casualties themselves
- No action shall be taken involving any personal risk or without suitable training
- Personal precautions for non-emergency personnel: Do not touch or walk through spilt material; Avoid contact with skin and eyes
- Personal precautions for emergency responders: Evacuate the area and keep personnel upwind; Wear protective clothing as per section 8; Wash thoroughly after dealing with spillage

6.2 Environmental precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses

6.3 Methods and material for containment and cleaning up

- Stop leak if safe to do so.
 - Small spills
Wipe up spillage with damp absorbent cloth or towel
 - Large spills
Contain the spillage using bunding
Absorb spillage in inert material and shovel up
Place in appropriate container
-

SECTION 6: Accidental release measures (....)

- Seal containers and label them
- Remove contaminated material to safe location for subsequent disposal
- Dispose of contents/container to an authorised waste collection point
- Ventilate the area and wash spill site after material pick-up is complete
- Wash thoroughly after dealing with spillage

6.4 Reference to other sections

- See section(s): 7, 8 & 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
- Do not eat, drink or smoke when using this product.
- Avoid formation of spray/mist/aerosols
- Avoid breathing vapours, mist or gas
- Wear protective clothing as per section 8
- Wash thoroughly after handling.
- Take off contaminated clothing.
- Contaminated clothing should be laundered before reuse
- Eyewash bottles should be available

7.2 Conditions for safe storage, including any incompatibilities

- Keep locked up and out of reach of children
- Keep away from food, drink and animal feedingstuffs
- Keep only in the original container
- Keep container tightly closed, in a cool, well ventilated place
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Opened containers should be carefully resealed and stored in an upright position

7.3 Specific end use(s)

- Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- Lauryl betaine; (Carboxylatomethyl)dodecyldimethyl ammonium
 - PNEC aqua (freshwater) 2 ug/l
 - PNEC aqua (intermittent releases, freshwater) 2 ug/l
 - PNEC aqua (marine water) 200 ng/l
 - PNEC aqua (intermittent releases, marine water) 200 ng/l
 - PNEC (STP) 1 mg/l
- Magnesium chloride hexahydrate
 - PNEC aqua (freshwater) 3.21 mg/l
 - PNEC aqua (intermittent releases, freshwater) 5.48 mg/l
 - PNEC aqua (marine water) 320 ug/l
 - PNEC (STP) 90 mg/l
 - PNEC sediment (freshwater) 288.9 mg/kg
 - PNEC sediment (marine water) 28.89 mg/kg
 - PNEC terrestrial (soil) 662.77 mg/kg

8.2 Exposure controls

- Selection and use of personal protective equipment should be based on a risk assessment of exposure potential
- Engineering controls
 - Ensure adequate ventilation

SECTION 8: Exposure controls/personal protection (....)

- Respiratory protection
 - No respiratory protection is needed during normal handling
 - Respiratory protection may be required under exceptional circumstances when excessive air contamination exists
 - Where a reusable half mask respirator is required, use EN 140, with gas/vapour filter EN 14387 type ABEK, or EN 405; EN 1827
- Eye/face protection
 - Wear safety glasses approved to standard EN 166.
 - When handling this substance, e.g. diluting, wear goggles giving complete eye protection
- Skin protection
 - Wear suitable protective clothing
 - Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
 - The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
- Hygiene measures
 - Use good personal hygiene practices
 - Do not eat, drink or smoke when using this product.
 - Wash thoroughly after handling.
 - Contaminated clothing should be laundered before reuse
 - Ensure eyewash stations and safety showers are nearby



SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties

- Appearance: Clear light yellow liquid
- Odour: No information available
- Odour threshold: No information available
- pH: 4.5 - 7.0 (1% aqueous solution)
- Melting point/freezing point: No information available
- Initial boiling point and boiling range: No information available
- Flashpoint: No information available
- Evaporation Rate: No information available
- Flammability (solid,gas): Not applicable
- Upper/lower flammability or explosive limits: Not applicable
- Vapour Pressure: No information available
- Vapour Density: (air=1) >1
- Relative Density: (water=1): 1.00 - 1.02 @ 20°C
- Solubility(ies): Soluble in water
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: No information available
- Decomposition temperature: No information available
- Viscosity: 40 mPa.s @ 20°C
- Explosive Properties: Not applicable
- Oxidising properties: Not applicable

9.2 Other information

- No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

- No information available

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Keep away from heat
- Keep away from direct sunlight

10.5 Incompatible materials

- No information available

10.6 Hazardous decomposition products

- Decomposition products may include nitrogen and carbon oxides
- Decomposition products may include chlorine oxides
- Decomposition products may include magnesium oxides
- Decomposition products may include hydrogen chloride

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute Toxicity
Based on available data, the classification criteria are not met

Chemical Name	LD50 (oral, rat)	LC50 (inhalation, rat)	LD50 (dermal, rabbit)
Lauryl betaine; (Carboxylatomethyl) dodecyldimethyl ammonium	2 500 mg/kg bw	No data available	(rat) 2 000 mg/kg
Magnesium chloride hexahydrate	5 000 mg/kg bw	No data available	(rat) 2 000 mg/kg

- Skin corrosion/irritation
Causes skin irritation.
Classification based on calculation and concentration thresholds
- Serious eye damage/irritation
Causes serious eye irritation.
Classification based on calculation and concentration thresholds
- Respiratory or skin sensitisation
May cause an allergic skin reaction.
Classification based on calculation and concentration thresholds
- Germ cell mutagenicity
No evidence of mutagenic effects
- Carcinogenicity
No evidence of carcinogenic effects
- Reproductive toxicity
No evidence of reproductive effects

SECTION 11: Toxicological information (....)

- Specific target organ toxicity (STOT) - single exposure
Based on available data, the classification criteria are not met
- Specific target organ toxicity (STOT) - repeated exposure
Based on available data, the classification criteria are not met
- Aspiration hazard
Based on available data, the classification criteria are not met
- Contact with eyes
Causes redness and irritation
- Contact with skin
Causes redness and irritation
May cause allergic reaction in susceptible people
- Ingestion
May cause nausea/vomiting
May cause gastro-intestinal disturbances
- Inhalation
May cause respiratory irritation

SECTION 12: Ecological information

12.1 Toxicity

- Based on available data, the classification criteria are not met
- Lauryl betaine; (Carboxylatomethyl)dodecyldimethyl ammonium
LC50 (fish) 2 mg/l (4 days)
EC50 (aquatic invertebrates) 2 - 5.3 mg/l (48 hr)
EC50 (aquatic algae) 2.5 - 11 mg/l (72 hr)
- Magnesium chloride hexahydrate
LC50 (fish) 541 - 2 119.3 mg/l (4 days)
LC50 (aquatic invertebrates) 140 - 548.4 mg/l (48 hr)
EL50 (aquatic algae) 100 mg/l (72 hr)

12.2 Persistence and degradability

- The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
- Lauryl betaine
Readily biodegradable
- Magnesium chloride hexahydrate
No data available

12.3 Bioaccumulative potential

- Bioaccumulation is not expected

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

12.6 Other adverse effects

- No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- This material and/or its container must be disposed of as hazardous waste
- Disposal should be in accordance with local, state or national legislation
- Dispose of contents/container to an authorised waste collection point
- Do not reuse empty containers without commercial cleaning or reconditioning

13.2 Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
 - Hazardous Property Code(s): HP 4 Irritant; HP 13 Sensitising
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SECTION 14: Transport information

Not classified as hazardous for transport

14.1 UN number

- UN No.: Not applicable

14.2 UN proper shipping name

- Proper Shipping Name: Not applicable

14.3 Transport hazard class(es)

- Hazard Class: Not applicable

14.4 Packing group

- Packing Group: Not applicable

14.5 Environmental hazards

- Not Classified

14.6 Special precautions for user

- No special precautions are required for this product

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

- Not applicable

14.8 Road/Rail (ADR/RID)

- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.9 Sea (IMDG)

- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Pack Group.: Not applicable

14.10 Air (ICAO/IATA)

- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

SECTION 15: Regulatory information

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

- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2015/830
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe
- Label requirements for the Detergents Regulation (EC 684/2004, 907/2006): Contains amongst other ingredients 30 % and more amphoteric surfactants

15.2 Chemical safety assessment

- No information available
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SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. The company will not be held liable for any damage resulting from handling or from contact with this product.

Sources of data: Information from published literature and supplier safety data sheets

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

- Skin Irrit. 2, H315: Classification based on calculation and concentration thresholds
- Skin Sens. 1, H317: Classification based on calculation and concentration thresholds
- Eye Irrit. 2, H319: Classification based on calculation and concentration thresholds

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.

Acronyms

- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC50: Effective Concentration, 50%
- GHS: Globally Harmonised System
- INCI: International Nomenclature Cosmetic Ingredient
- LC50: Lethal Concentration, 50%
- LD50: Lethal Dose, 50%
- NOAEL: No observed adverse effect level
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PH.EUR: European Pharmacopoeia
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- STOT RE: Specific Target Organ Toxicity Repeated Exposure
- STOT SE: Specific Target Organ Toxicity Single Exposure
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

--- end of safety datasheet ---
