

## SAFETY DATA SHEET

### Able D1 Diamond Enzymatic Laundry Detergent

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

##### 1.1. Product identifier

Product name	Able D1 Diamond Enzymatic Laundry Detergent
Product number	7229/22463
UFI	UFI: KN0N-R0A4-S00W-9GN1

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

Identified uses	Detergent. Cleaning agent.
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##### 1.3. Details of the supplier of the safety data sheet

Supplier	ABLE CLEANING AND HYGIENE SUPPLIES 27-33 THREXTON INDUS EST WATTON NORFOLK IP25 6NG Tel: 01953 885 661
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##### 1.4. Emergency telephone number

Emergency telephone	01953 885 661 (7.30am - 4.30pm)
National emergency telephone number	NHS Direct 111 (GB) National Poisons Information Service Tel: +44 344 892 0111 (UK) - Medical Professionals Only National Poisons Information Centre Tel: +353 (01) 809 2566 (Ireland) - Healthcare Professionals only (24 hour service)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Eye Dam. 1 - H318
Environmental hazards	Not Classified

##### 2.2. Label elements

Hazard pictograms



Signal word	Danger
Hazard statements	H318 Causes serious eye damage.
Precautionary statements	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. P310 Immediately call a POISON CENTER/ doctor.
Contains	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide, Alcohols, C13-15, branched and linear, ethoxylated
Detergent labelling	15 - < 30% phosphates, 5 - < 15% anionic surfactants, < 5% enzymes, < 5% non-ionic surfactants, < 5% optical brighteners, < 5% perfumes, Contains 1,2-BENZOISOTHIAZOL-3(2H)-ONE

##### 2.3. Other hazards



## Able D1 Diamond Enzymatic Laundry Detergent

### 4.1. Description of first aid measures

Inhalation	Non-volatile liquid product.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available. Get medical attention immediately.
Skin contact	Remove contaminated clothing. Rinse immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Inhalation	This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Skin irritation.
Eye contact	May cause severe eye irritation.

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	None known.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards	None known.
Hazardous combustion products	Does not decompose when used and stored as recommended.

### 5.3. Advice for firefighters

Protective actions during firefighting	If risk of water pollution occurs, notify appropriate authorities. Control run-off water by containing and keeping it out of sewers and watercourses.
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	Wear protective clothing as described in Section 8 of this safety data sheet.
For non-emergency personnel	Prevent further leakage or spillage if safe to do so. Keep away from incompatible products.
For emergency responders	Avoid discharge into drains or watercourses or onto the ground.

### 6.2. Environmental precautions

Environmental precautions	Collect and dispose of spillage as indicated in Section 13.
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### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Absorb in vermiculite, dry sand or earth and place into containers. Flush spilled material into suitable retaining areas or container with large quantities of water. Inform authorities if large amounts are involved.
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### 6.4. Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in Section 13. See Section 11 for additional information on health hazards.
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## SECTION 7: Handling and storage

## Able D1 Diamond Enzymatic Laundry Detergent

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes.

**Advice on general occupational hygiene** When using do not eat, drink or smoke.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep above the chemical's freezing point to avoid rupturing the container. Keep container tightly closed.

**Storage class** Unspecified 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

##### GLYCERINE VEG

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> mist

##### Diethyl phthalate

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 10 mg/m<sup>3</sup>

##### SUBTILISIN

Long-term exposure limit (8-hour TWA): WEL 0.00004 mg/m<sup>3</sup>

Sen

##### ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 104 mg/m<sup>3</sup>(Sk)

##### POTASSIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

Sen = Capable of causing occupational asthma.

#### PENTASODIUM TRIPHOSPHATE (CAS: 7758-29-4)

##### DNEL

Workers - Dermal; Short term systemic effects: 0.375 mg/kg bw/day

Workers - Inhalation; Short term systemic effects: 0.661 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 0.375 mg/kg bw/day

Workers - Inhalation; Long term systemic effects: 0.661 mg/l

General population - Dermal; Short term systemic effects: 0.375 mg/kg

General population - Inhalation; Short term systemic effects: 0.66 mg/kg bw/day

General population - Oral; Short term systemic effects: 0.75 mg/kg

General population - Oral; Long term systemic effects: 0.75 mg/kg bw/day

General population - Inhalation; Long term systemic effects: 0.661 mg/m<sup>3</sup>

General population - Dermal; Long term systemic effects: 0.375 mg/kg bw/day

##### PNEC

- Fresh water; 0.005 mg/l

- marine water; 0.005 mg/l

- Intermittent release, Fresh water; 0.05 mg/l

- Sediment (Freshwater); 0.19 mg/kg dw

- Soil; 0.14 mg/kg dw

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

## Able D1 Diamond Enzymatic Laundry Detergent

DNEL	Workers - Dermal; Long term systemic effects: 85 mg/kg bw/day Workers - Inhalation; Long term systemic effects: 6 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 42.5 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 1.5 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 0.425 mg/kg bw/day
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PNEC	- Fresh water; 0.268 mg/l - marine water; 0.0268 mg/l - Intermittent release; 0.055 mg/l - STP; 5.6 mg/l - Sediment (Freshwater); 8.1 mg/kg dw - Sediment (Marinewater); 8.1 mg/kg dw - Soil; 35 mg/kg dw
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### Distyryl Biphenyl Derivative (CAS: 27344-41-8)

DNEL	Workers - Dermal; Long term systemic effects: 53 mg/kg Consumer - Dermal; Long term systemic effects: 19 mg/kg Consumer - Oral; Long term systemic effects: 1.9 mg/kg Workers - Inhalation; Long term systemic effects: 20.5 mg/m <sup>3</sup>
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PNEC	Fresh water; 0.0625 mg/l marine water; 0.00625 mg/l Intermittent release; 0.1028 mg/l STP; 100 mg/l Sediment (Freshwater); 198000 mg/kg Sediment (Marinewater); 19800 mg/kg Soil; 1 mg/kg
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## 8.2. Exposure controls

### Protective equipment



Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	The following protection should be worn: Chemical splash goggles.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
Other skin and body protection	Wear appropriate clothing to prevent skin contact.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Opaque liquid. Liquid.
Colour	Green.
Odour	Perfume.
pH	pH (diluted solution): 7-8 @ 1 %
Melting point	> 10°C
Initial boiling point and range	> 100°C @ 760 mm Hg
Relative density	~ 1.21 @ 20°C
Solubility(ies)	Miscible with water.

## Able D1 Diamond Enzymatic Laundry Detergent

Viscosity 1750-2200 cP @ 20°C

### 9.2. Other information

Other information Not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stability No particular stability concerns.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not known.

### 10.4. Conditions to avoid

Conditions to avoid Avoid contact with the following materials: Oxidising agents. Reducing agents.

### 10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Oxides of the following substances: Carbon. Sulphur.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

ATE oral (mg/kg) 21,739.13

Inhalation This is unlikely to occur but symptoms similar to those of ingestion may develop.

Ingestion May cause discomfort if swallowed.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact Risk of serious damage to eyes.

Acute and chronic health hazards Repeated exposure may cause chronic eye irritation. Mild dermatitis, allergic skin rash.

#### Toxicological information on ingredients.

#### PENTASODIUM TRIPHOSPHATE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 2,001.0

Species Rat

ATE oral (mg/kg) 2,001.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 4,641.0

Species Rabbit

ATE dermal (mg/kg) 4,641.0

## Able D1 Diamond Enzymatic Laundry Detergent

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 2,001.0

Species Rat

ATE oral (mg/kg) 2,001.0

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,001.0

Species Rat

### Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 85 mg/kg, Oral, Rat LOAEL 145 mg/kg, Oral, Rat NOAEL 440 mg/kg, Dermal, Mouse

Alcohols, C13-15, branched and linear, ethoxylated

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 500.0

Species Rat

## SECTION 12: Ecological information

**Ecotoxicity** Environmental information currently available for the ingredients of this preparation indicates that it does not contain any ingredients currently classified as Dangerous for the Environment.

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

### Ecological information on ingredients.

#### PENTASODIUM TRIPHOSPHATE

##### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, : >1850 mg/l,

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants ErC50, : 160 mg/l, Desmodesmus subspicatus

##### Chronic aquatic toxicity

Chronic toxicity - fish early life stage LOEC, 96 hours: 5 mg/l, Fish

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

##### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 1-10 mg/l, Fish

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 1-10 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC<sub>50</sub>, 72 hours: 10-100 mg/l, Algae  
EC10, 72 days: 1.5 mg/l, Algae

## Able D1 Diamond Enzymatic Laundry Detergent

Acute toxicity - microorganisms EC<sub>50</sub>, 17 hours: 63 mg/l, PSEUDOMONAS PUTIDA

### Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 72 days: 0.1-1 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates EC<sub>20</sub>, 32 days: 0.27 mg/l, Freshwater invertebrates

### Alcohols, C13-15, branched and linear, ethoxylated

### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 1-10 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 1-10 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours: 1-10 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms EC10, : >1000 mg/l, Activated sludge

### Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, : >0.1-<1 mg/l,

## 12.2. Persistence and degradability

**Persistence and degradability** The surfactant(s) contained in this product 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.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

## 12.4. Mobility in soil

**Mobility** The product is non-volatile.

## 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** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

EURAL Code

## SECTION 14: Transport information

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.



## Able D1 Diamond Enzymatic Laundry Detergent

### 14.3. Transport hazard class(es)

#### Transport labels

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

Not applicable.

### 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

#### EU legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Revision comments	Revision is to include emergency telephone number
Revision date	28/01/2020
Revision	6
Supersedes date	19/06/2019
SDS number	7229/22463
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. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.