



# Safety Data Sheet

## Dishwasher Rinse Aid

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Revision No: 1.3

Issue Date: 06.06.2022

Supersedes: 1.2

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product Identifier

Product Form:	Mixture
Trade Name/Designation:	Bio-D Dishwasher Rinse Aid
Product Code:	BDRA127a, BDRA45a,
Product Group:	Detergent
Container Size:	12 x 750ml, 4 x 5L,
UFI:	C420-H0WU-T00P-X8VQ

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

##### 1.2.1 Relevant Identified Uses

Rinse Aid for auto dishwashing.

##### 1.2.2 Uses Advised Against

No additional information available

#### 1.3 Details of the supplier of the safety data sheet

##### **Manufacturer**

The Bio-D Company  
Unit 10 Westgate Way, Marfleet Environmental Tech Park  
Hedon Road, Hull  
HU9 5LW 01482 229950  
[www.biodegradable.biz](http://www.biodegradable.biz)  
[info@biodegradable.biz](mailto:info@biodegradable.biz)

##### **Legal Entity**

BIODC Ltd  
2 Castlevue Park, Swords, K67 W227 01482 229950

#### 1.4 Emergency telephone number

Customer Service: 01482 229950(Mon – Fri, 9am – 4:30pm)

NHS Help Line: 111 EU Emergency No:112

National Poison Information Service(For health professionals only): 0344 892 0111

### Section 2: Hazards Identification

#### 2.1 Classification of the Substance or Mixture

This product does not fulfil the criteria for classification under CLP

#### 2.2 Label Elements

This product does not fulfil the criteria for classification under CLP

#### 2.3 Other Hazards

This substance/mixture does not meet the PBT criteria of REACH registration, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH registration, annex XIII

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### Section 3: Composition/Information on Ingredients

#### 3.1 Substance

Not Applicable

#### 3.2 Mixture

Name	Product Identifier	%	Classification according to Regulation (EC) No 1272/2008(CLP)
Denatured alcohol	(HMRC Tariff Number) 2207 20 00 90 (REACH Registration Number) 01-2119457610-43-XXXX	1% - 5%	Flam. Liq. 2 - H225 Acute Tox. 4 - H332 Eye Irrit. 2 - H319 STOT SE 2 - H371
Citric Acid	(CAS No) 5949-29-1 (EC No) 201-069-1 (REACH No) 01-2119457026-42	1% - 5%	Eye Irrit. 2 - H319
Anionic Surfactant	(CAS No) 68891-38-3 (EC NO) 500-234-8 (REACH No) 2119488639-16	1% - 5%	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412
Amphoteric Surfactant	(CAS No) 61789-40-0	0.1% - 1%	Eye Dam. 1 - H318 Aquatic Chronic 3 - H412

Full list of H-Statements: see section 16

### Section 4: First Aid Measures

#### 4.1 Description of First Aid Measures

**Additional Advice:** First Aider: Pay attention to self-protection. In case of concern or persistent symptoms, always consult a physician.

**Inhalation:** Remove person to fresh air and keep comfortable for breathing.

**Skin contact:** Wash skin with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse.

**Eyes contact:** Rinse eyes with plenty of water, also under the eyelids for at least 15 minutes.

**Ingestion:** Clean mouth with water. Do NOT induce vomiting. Do not give milk or alcoholic beverages.

#### 4.2 Most Important Symptoms and Effects, both Acute and Delayed

**Inhalation:** NO data available.

**Skin Contact:** No data available.

**Eyes contact:** No data available.

**Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### 4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

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### Section 5: Fire Fighting Measures

#### 5.1 Extinguishing Media

Suitable extinguishing media: Water spray. Dry extinguishing powder. Foam. Carbon Dioxide.

#### 5.2 Special Hazards Arising from the Substance or Mixture

No data available.

#### 5.3 Advice for Firefighters

Protection during firefighting: Do not attempt to take action without suitable protective clothing and self-contained breathing apparatus.

### Section 6: Accidental Release Measures

#### 6.1 Personal Precautions, Protective Equipment & Emergency Procedures

##### 6.1.1 For Non-Emergency Personnel

Use personal protective equipment as required. Provide adequate ventilation. Avoid contact with skin, eyes and clothing.

##### 6.1.2 For Emergency Responders

Use personal protective equipment as required. Ensure procedures for decontamination are in place

#### 6.2 Environmental Precautions

Do not allow into surface water or drains.

#### 6.3 Methods and Material for Containment and Cleaning | Up

Methods for cleaning up: Provide adequate ventilation. Use absorbent material to soak up spill. Collect in closed and suitable containers for disposal. Site should have a spill plan to ensure that adequate safeguards are in place to minimise the impact of episodic releases.

Other information: Dispose of materials and residues at an authorised site or via an approved waster collector.

#### 6.4 Reference to other Sections

For disposal: See Section 13

For protective equipment: See Section 8.2

### Section 7: Handling & Storage

#### 7.1 Precautions for Safe Handling

Precautions for safe handling: Provide good ventilation. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothing.

#### 7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store in a cool dry place. Keep out of reach of children. Keep container tightly closed.

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### 7.3 Specific End Use(s)

No data available.

## Section 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

Denatured Alcohol		
EtOH 64-17-5	TWA	1,000 ppm 1,920 mg/m <sup>3</sup>
Methanol 67-56-1	TWA	200 ppm 260 mg/m <sup>3</sup>

Denatured Alcohol	
<b>Ethanol</b>	
DNEL	
End Use: Workers Exposure routes: Inhalation. Potential health effects: Acute effects, Local effects. Value: 1900 mg/m <sup>3</sup>	
End Use: Workers. Exposure routes: Skin contact. Potential health effects: Chronic effects. Value: 343 mg/kg	
End Use: Workers. Exposure routes: Inhalation. Potential health effects: Chronic effects. Value: 950 mg/m <sup>3</sup>	
End Use: Consumers. Exposure routes: Inhalation. Potential health effects: Acute effects, Local effects. Value: 950 mg/m <sup>3</sup>	
End Use: Consumers. Exposure routes: Skin contact. Potential health effects: Chronic effects. Value: 206 mg/kg	
End Use: Consumers. Exposure routes: Inhalation. Potential health effects: Chronic effects. Value: 114 mg/m <sup>3</sup>	
End Use: Consumers. Exposure routes: Ingestion. Potential health effects: Chronic effects. Value: 87 mg/kg	
<b>Methanol</b>	
DNEL	
End Use: Workers Exposure routes: Skin contact Potential health effects: Acute effects Value: 40 mg/kg	
End Use: Workers Exposure routes: Inhalation Potential health effects: Acute effects Value: 260 mg/m <sup>3</sup> 200 ppm	
End Use: Workers Exposure routes: Inhalation Potential health effects: Acute effects, Local effects Value: 260 mg/m <sup>3</sup> 200	
End Use: Workers Exposure routes: Skin contact Potential health effects: Chronic effects Value: 40 mg/kg	
End Use: Workers Exposure routes: Inhalation Potential health effects: Chronic effects Value: 260 mg/m <sup>3</sup> 200 ppm	
End Use: Workers. Exposure routes: Inhalation. Potential health effects: Chronic effects, Local effects Value: 260 mg/m <sup>3</sup> 200 ppm	
End Use: Consumers. Exposure routes: Skin contact. Potential health effects: Acute effects. Value: 8 mg/kg	
End Use: Consumers. Exposure routes: Inhalation. Potential health effects: Acute effects. Value: 50 mg/m <sup>3</sup>	
End Use: Consumers. Exposure routes: Ingestion. Potential health effects: Acute effects. Value: 8 mg/kg	
End Use: Consumers. Exposure routes: Inhalation. Potential health effects: Acute effects, Local effects Value: 50 mg/m <sup>3</sup>	
End Use: Consumers. Exposure routes: Skin contact. Potential health effects: Chronic effects. Value: 8 mg/kg	
End Use: Consumers. Exposure routes: Inhalation. Potential health effects: Chronic effects. Value: 50 mg/m <sup>3</sup>	
PNEC	
<b>Ethanol</b>	
PNEC aqua (Freshwater)	0.96 mg/l
PNEC aqua (Marine water)	0.79 mg/l
PNEC sediment	3.6 mg/kg
PNEC soil	0.63 mg/kg
<b>Methanol</b>	
PNEC aqua (Freshwater)	154 mg/l
PNEC aqua (Marine water)	15.4 mg/l
PNEC sediment	570.4 mg/kg
PNEC soil	23.5 mg/kg

No exposure limits known for other ingredients.

### 8.2 Exposure Controls

Personal Protective Equipment: Avoid all unnecessary exposure. Avoid contact with skin, eye and clothing.

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Hand Protection: No special clothing is recommended under normal use  
Eye Protection: No special clothing is recommended under normal use  
Body Protection: No special clothing is recommended under normal use.  
Respiratory Protection: No special respiratory equipment is recommended under normal use with adequate ventilation.  
Environmental exposure controls: Avoid release to the environment. Do not allow to enter into surface water or drains.

### Section 9: Physical & Chemical Properties

#### 9.1 Information on Basic Physical & Chemical Properties

Physical state: Liquid  
Colour: Colourless, light yellow  
Odour: Orange  
Odour: No data available  
pH: 2.0 – 2.5  
Relative evaporation rate (butylacetate=1): No data available  
Melting Point: Not applicable  
Freezing point: Not applicable  
Boiling point: No data available  
Flash point: No data available  
Auto-ignition temperature: No data available  
Decomposition temperature: No data available  
Vapour pressure: No data available  
Relative Density: 1.00 kg/l  
Solubility: Miscible with water  
Partition coefficient: No data available  
Kinematic viscosity: No data available  
Dynamic viscosity: No data available  
Explosive properties: No data available  
Oxidising properties: No data available  
Explosive limits: No data available

#### 9.2 Other Information

VOC content: No data available

### Section 10: Stability and Reactivity

#### 10.1 Reactivity

This product is non-reactive under normal conditions of use, storage and transport.

#### 10.2 Chemical Stability

Stable under normal conditions.

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### 10.3 Possibility of Hazardous Reactions

No dangerous reactions known under normal conditions of use.

### 10.4 Conditions to Avoid

Keep out of direct sunlight and away from direct heat.

### 10.5 Incompatible Materials

No available data.

### 10.6 Hazardous Decomposition Products

No hazardous decomposition known under normal conditions of use.

## Section 11: Toxicological Information

### 11.1 Information of Toxicological Effects

This mixture has not been subjected to toxicological testing.

Skin corrosion/irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitisation:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified

## Section 12: Ecological Information

### 12.1 Toxicity

Ecology – general: This product is not considered harmful to aquatic organisms not to cause long term effects to the environment.

Acute aquatic toxicity: Not classified.

Chronic aquatic toxicity: Not classified.

### 12.2 Persistence & Degradability

This product does not contain any persistent substances. The surfactants 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.

### 12.3 Bioaccumulative Potential

The product does not contain any bioaccumulative substances.

### 12.4 Mobility in Soil

No data available.

### 12.5 Results of PBT and vPvB Assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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### 12.6 Other Adverse Effects

This product is suitable for use with septic tanks and other waste water treatment plants.

## Section 13: Disposal Considerations

### 13.1 Waste Treatment Methods

Dispose of contents/container in accordance with current regulations. Collect and dispose of waste product at an authorised disposal facility or contact your local waste disposal site for advice. This product is not classified as hazardous waste.

## Section 14: Transport Information

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

### 14.1 UN Number

Not required.

### 14.2 UN Proper Shipping Name

Not required.

### 14.3 Transport Hazard Classes

Not required.

### 14.4 Packing Group

Not required.

### 14.5 Environmental Hazards

Dangerous for the environment: No

Marine pollutant: No

Other information: No other information available

### 14.6 Special Precautions for User

Overland transport: Keep products in a cool dry place and ensure a stable journey to prevent damages.

Transport by sea: Keep products in a cool dry place and ensure a stable journey to prevent damages.

Air transport: Keep products in a cool dry place and ensure a stable journey to prevent damages.

Inland waterway transport: Keep products in a cool dry place and ensure a stable journey to prevent damages.

Rail transport: Keep products in a cool dry place and ensure a stable journey to prevent damages.

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14.7 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

15.1.1 EU Regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

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).

Guidance: Safety Data Sheets for Substances and Preparations.

15.1.2 National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

GB Classification, Labelling and Packaging Regulation

15.2 Chemical Safety Assessment

No chemical safety assessment has been conducted for this mixture.

### Section 16: Other Information

Intended Shelf Life

12 months from opening.

Full text of H statements:

H225: Highly flammable liquid and vapour

H315: Causes skin irritation

H319: Causes serious eye irritation

H226: Flammable liquid and vapour

H332: Harmful if inhaled

H371: May cause damage to organs

H411: Toxic to aquatic life with long-lasting effects

H412: Harmful to aquatic life with long-lasting effects

Indication of changes:

Correction of Product Codes

Classification:

This product does not fulfil classification criteria under CLP Regulations

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Department issuing SDS:

Bio-D Regulatory Affairs Department

Sources of key data:

ECHA Website, Supplier SDSs

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Disclaimer Of Liability:

The information in this SDS was obtained from sources which we believe are reliable. However the information is provided without any warranty, express or implied, regarding its correctness.

**End of Safety Data Sheet**