



# Safety Data Sheet

## Dishwasher Rinse Aid

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Issue Date: 01.01.20  
Supersedes: 1.4

### 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: BDRA127, BDRA45, BDRAS20  
Product Group: Detergent  
Container Size: 12 x 750ml, 4 x 5L, 1 x 20L  
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 31, Bergen Way  
Hull  
HU7 0YQ  
01482 229950  
[www.biodegradable.biz](http://www.biodegradable.biz)  
[info@biodegradable.biz](mailto:info@biodegradable.biz)

#### 1.4 Emergency telephone number

Customer Service: 01482 229950(Mon – Fri, 9am – 4:30pm)  
NHS Help Line: 111  
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

### Section 3: Composition/Information on Ingredients

#### 3.1 Substance

Not Applicable

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### 3.2 Mixture

Name	Product Identifier	%	Classification according to Regulation (EC) No 1272/2008(CLP)
Methylated Spirits	(CAS No) 64-17-5	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
Nonionic Surfactant	(CAS No) 68155-07-7 (EC No) 931-329-6 (REACH No) 01-2119490100-53	0.1% - 1%	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 2 - H411

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.

## 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.

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### 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.

### 7.3 Specific End Use(s)

No data available.

## Section 8: Exposure Controls/Personal Protection

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### 8.1 Control Parameters

Nonionic Surfactant(68155-07-7)		
Diethanolamine	(8h) TWA	OES 3 ppm(Sk) 13 mg/m3(Sk)
Diethanolamine	(15min)	OES

Nonionic Surfactant(68155-07-7)		
Diethanolamine		
DNEL/DMEL (Workers)		
Long term systemic effects - Dermal	4.16 mg/kg/day	
Long term systemic effects – Inhalation	73.4 mg/m <sup>3</sup>	
DNEL/DMEL(General Population)		
Long term systemic effects – Dermal	2.5 mg/kg/day	
Long term systemic effects – Inhalation	21.73 mg/m <sup>3</sup>	
Long term systemic effects – Oral	6.25 mg/kg/day	
PNEC(water)		
PNEC aqua (Freshwater)	0.007 mg/l	
PNEC aqua (Marine water)	0.0007 mg/l	
PNEC aqua (Intermittent release)	0.0024 mg/l	
PNEC(Sediment)		
PNEC sediment	830 mg/l	
PNEC soil	0.0189 mg/l	
PNEC sediment	0.0424 mg/kg	

No exposure limits known for other ingredient(s).

### 8.2 Exposure Controls

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

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

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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.

### 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

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## 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.

### 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.

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#### 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.

#### 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

This product does not fulfil the criteria for classification.

##### 15.1.2 National Regulations

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

#### 15.2 Chemical Safety Assessment

No chemical safety assessment has been conducted for this mixture.

### Section 16: Other Information

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Intended Shelf Life

12 months from opening.

Full text of H statements:

H315: Causes skin irritation

H319: Causes serious eye irritation

H226: Flammable liquid and vapour

H411: Toxic to aquatic life with long-lasting effects

H412: Harmful to aquatic life with long-lasting effects

Indication of changes:

Complete SDS review, no changes to ingredients.

Classification:

This product does not fulfil classification criteria under CLP Regulations

Department issuing SDS:

Bio-D Quality and 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**