

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Miele Mixed Bed Resin E315 - single use

Version 2.0      Date: 10.10.2024      SDS Number: 019022      Date of last issue: 22.05.2020  
Country / Language: GB / EN(GB)

---

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

#### 1.1 Product identifier

Trade name : Miele Mixed Bed Resin E315 single use  
Product code : 019022

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

Use of the Sub-stance/Mixture : Ion exchange, resins and catalysts

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

Supplier : EnviroFALK GmbH  
Process water technology,  
Gutenbergstrasse 7  
56457 Westerburg, Germany  
Telephone : +49 2663 9908 0  
E-mail address of person responsible for the SDS : sdb@envirofalk.com

#### 1.4 Emergency telephone number

0870 190 6777. National Chemical Emergency Centre  
+49 2663 9908-23 EnviroFALK Hotline (Monday - Friday, 8:00 - 15:00 (MET/MEST))

---

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Serious eye irritation, Category 2      H318: Causes serious eye irritation.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
P234 Keep only in original packaging.  
P280 Wear eye protection/ face protection.

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Miele Mixed Bed Resin E315 - single use

Version 2.0      Date: 10.10.2024      SDS Number: 019022      Date of last issue: 22.05.2020  
Country / Language: GB / EN(GB)

### Response:

P305 + P351 + P338 + P310    IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:

Ethylethenylbenzene, ethenylbenzene, diethenylbenzene polymer, methanaminiumN,N,N-trimethyl hydroxide

Ethylbenzene, ethylethenylbenzene, diethenylbenzene polymer, sulfonated

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Ethylethenylbenzene, ethenylbenzene, diethenylbenzene polymer, methanaminiumN,N,N-trimethyl hydroxide	69011-18-3	Eye Dam. 1; H319	>= 20 - < 30
Water	7732-18-5		>= 40 - < 60
Ethylbenzene, ethylethenylbenzene, diethenylbenzene polymer, sulfonated	69011-20-7	Eye Dam. 1; H319	>= 20 - < 30

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Loosen tight clothing such as a collar, tie, belt or waistband.  
In case of inhalation of decomposition products in a fire, symptoms may be delayed.

If symptoms persist, call a physician.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Miele Mixed Bed Resin E315 - single use

Version	Date:	SDS Number:	Date of last issue: 22.05.2020
2.0	10.10.2024	019022	Country / Language: GB / EN(GB)

---

- In case of skin contact : Wash off with soap and water.  
Get medical assistance if symptoms occur.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty  
of water for 15 minutes.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.
- If swallowed : If swallowed, rinse mouth with water.  
Get medical assistance if symptoms occur.
-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Miele Mixed Bed Resin E315 - single use

Version	Date:	SDS Number:	Date of last issue: 22.05.2020
2.0	10.10.2024	019022	Country / Language: GB / EN(GB)

---

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

Risks : Causes serious eye irritation, tearing, redness.

Treat symptomatically.  
See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : See Section 11 for more detailed information on health effects and symptoms. Symptoms may appear delayed.

---

## SECTION 5: Firefighting measures

**General fire hazard: The product is non-flammable. In case of fire 5toxic gases can be released.**

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : None known.

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

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

---

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
No action shall be taken involving any personal risk or without suitable training.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Miele Mixed Bed Resin E315 - single use

Version	Date:	SDS Number:	Date of last issue: 22.05.2020
2.0	10.10.2024	019022	Country / Language: GB / EN(GB)

---

Keep unnecessary and unprotected personnel from entering.  
Do not touch or walk through spilt material.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use approved industrial vacuum cleaner for removal.  
Keep in suitable, closed containers for disposal.  
Dispose of wastes in an approved waste disposal facility.  
Rinse with water.  
Do not allow spilled material or wash water to enter sewers,  
surface waters, or groundwater systems, or soil.

### 6.4 Reference to other sections

For personal protection see section 8.  
For disposal considerations see section 13.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of respirable particles. Do not breathe vapours/dust.  
Provide ventilation.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Take action to prevent static discharges. Do not allow to dry.

Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

Recommended storage temperature : -20 to 40 °C

Further information on storage stability : No decomposition if stored and applied as directed.

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Miele Mixed Bed Resin E315 - single use

Version: 2.0      Date: 10.10.2024      SDS Number: 019022      Date of last issue: 22.05.2020  
Country / Language: GB / EN(GB)

---

### 7.3 Specific end use(s)

Specific use(s) : Ion exchange, resins and catalysts for industrial use.

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

Use adequate ventilation and eye wash equipment.

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

#### Hand protection

Material : Polyvinyl chloride - PVC  
Wearing time : < 60 min

Material : Nitrile rubber - NBR  
Wearing time : < 60 min

Material : Polychloroprene - CR  
Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Skin and body protection : Wear suitable protective clothing.

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Ventilation or breathing apparatus.

---

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : beads

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Miele Mixed Bed Resin E315 - single use

Version 2.0      Date: 10.10.2024      SDS Number: 019022      Date of last issue: 22.05.2020  
Country / Language: GB / EN(GB)

---

Colour	:	brown, black, amber
Odour	:	No odour
Odour Threshold	:	No data available
pH	:	6 - 9 Concentration: 10 %
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability	:	flammable
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density	:	Not applicable
Relative density	:	1,05 – 1,28 g/cm <sup>3</sup>
Density	:	not available
Bulk density	:	752 kg/m <sup>3</sup>
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	not applicable
Decomposition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

### 9.2 Other information

No further information available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Miele Mixed Bed Resin E315 - single use

Version	Date:	SDS Number:	Date of last issue: 22.05.2020
2.0	10.10.2024	019022	Country / Language: GB / EN(GB)

---

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.  
Stable under recommended storage conditions.  
No hazards to be specially mentioned.

#### 10.4 Conditions to avoid

Conditions to avoid : Contact with incompatible materials, heat, flames, sparks.

#### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents; nitric acid.

#### 10.6 Hazardous decomposition products

During thermal decay or combustion: toxic vapor may arise.

---

### SECTION 11: Toxicological information

General information: Eye contact causes serious eye irritation. Swallowing may cause nausea.

#### 11.1 Information on toxicological effects

##### Acute toxicity

Not classified as acute toxic based on available information.

##### Product:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Remarks: Test results on an analogous product

##### Skin corrosion/irritation

Not classified based on available information.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Miele Mixed Bed Resin E315 - single use

Version	Date:	SDS Number:	Date of last issue: 22.05.2020
2.0	10.10.2024	019022	Country / Language: GB / EN(GB)

---

### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Product:**

Result: Risk of serious irritation to eyes.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

#### **Product:**

Remarks: According to our experience and information the product has no harmful effects on health if properly handled.

### **11.2 Information on other risks**

The product is not endocrine disrupting according to EC / 1907/2006; EU / 2017/2100 and EU / 2018/605. No further information about acute or chronic health effects available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Miele Mixed Bed Resin E315 - single use

Version	Date:	SDS Number:	Date of last issue: 22.05.2020
2.0	10.10.2024	019022	Country / Language: GB / EN(GB)

---

### SECTION 12: Ecological information

#### 12.1 Toxicity

Based on available information not hazardous to water in the environment.

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

Not water soluble.

#### 12.5 Results of PBT and vPvB assessment

##### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Endocrine disrupting properties

Endocrine-disrupting properties: This mixture does not contain any substances with endocrine-disrupting properties

Environmental reference, as assessed according to the criteria of Regulations (EC) No. 1907/2006, (EU) No. 2017/2100 and (EU) 2018/605, in a concentration of 0.1% by weight or more.

#### 12.7 Other adverse effects

This component will not cause any other adverse effects on the environment (e.g. ozone depletion, photochemical ozone formation potential, endocrine disruption, global warming potential).

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Miele Mixed Bed Resin E315 - single use

Version	Date:	SDS Number:	Date of last issue: 22.05.2020
2.0	10.10.2024	019022	Country / Language: GB / EN(GB)

---

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

EU waste code:

The waste code number should be determined in consultation with the consumer, the manufacturer and the waste disposal company.

Disposal methods/information Collect and recover or in tightly closed containers from an approved facility. Take waste disposal. Dispose of contents/container in accordance with applicable regulations.

Special precautionary measures Observe all relevant legal regulations when disposing of the product.

- |                        |   |  |
|------------------------|---|--|
| Product                | : | Do not dispose of waste into sewer.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.  |
- 

### SECTION 14: Transport information

#### ADR / RID / ADN / IATA / IMDG

##### 14.1 UN number

Not regulated as a dangerous good

##### 14.2 UN proper shipping name

Not regulated as a dangerous good

##### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

##### 14.4 Packing group

Not regulated as a dangerous good

##### 14.5 Environmental hazards

Not regulated as a dangerous good

##### 14.6 Special precautions for user

- |                   |   |  |
|-------------------|---|--|
| Hazard statements | : | Not dangerous cargo.<br>Risk of serious damage to eyes.<br>Avoid temperatures below -20 °C.<br>Keep separated from foodstuffs. |
|-------------------|---|--|

##### 14.7 Transport in bulk according to IMO

Not applicable for product as supplied.

---

### SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	:	Not applicable
--	---	----------------

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
---	---	----------------

REACH - List of substances subject to authorisation	:	Not applicable
---	---	----------------

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Miele Mixed Bed Resin E315 - single use

Version	Date:	SDS Number:	Date of last issue: 22.05.2020
2.0	10.10.2024	019022	Country / Language: GB / EN(GB)

---

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors. : Neither banned nor restricted

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Further regulations because of the EU exit are not known at date of this revision.

### 15.2 Chemical safety assessment

No chemical safety assessment was carried out.

---

## SECTION 16: Other information

### Full text of H-Statements and P-statements

H319 : Causes serious eye irritation.

P234 : Keep only in original packaging.

### Full text of other abbreviations

Eye Dam. : Serious eye damage

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

### Further information

#### Classification of the mixture:

Eye Dam. 2 H319

#### Classification procedure:

Based on product data or assessment

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.