



SAFETY DATA SHEET

Mixed bed ion exchange resin UG (EN)

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	25.10.2018
Revision date	06.04.2022

1.1. Product identifier

Product name	Mixed bed ion exchange resin UG (EN)
Article no.	Mixed bed ion exchange resin: DIB25 / DIP25; Resin Cartridge: 17201 / RORES; Quick Change Resin bag: DIB61 / DIB64 / DIB84; HydroPower DI Filter: DI12T / DI12W / DI24C / DI24T / DI24W / DI48C / DI48T / DIBCC / DIBCW / AK158 / AK159 / DIBCF; HydroPower DI Kit: DIK12 / DIK24 / DIK48 / DIO12 / DIO24 / DIO48; Ultra HydroPower: DIUH1 / DIUH2 / DIUH3; Ultra HydroPower Kit: DIUK1 / DIUK2 / DIUK2U / DIUK2S / DIUK2F / DIUK3 / DIU01; Refill pack: DIUB1 / DIUB2 / DIUB3 / DIBCB
No requirement for SDS	This product is not classified as hazardous so no obligation exists to create a Safety Data Sheet according to REACH Art.31 Par.1. This product information is created in a format according to REACH Annex II to fulfill the information obligation according to REACH Art.31 Par.3, Art.32 and Art.33 also for products where no Safety Data Sheet is required on delivery.

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

Function	Description: Ion exchange
Product group	Cleaning agents
Use of the substance / preparation	Demineralization
Uses advised against	No specific uses advised against are identified.
Industrial use	Yes
Professional use	Yes
Consumer use	No

1.3. Details of the supplier of the safety data sheet

Company name	Unger Germany GmbH
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Postal address	Piepersberg 44
Postcode	D-42653
City	Solingen
Country	Germany
Telephone number	+49 (0) 212 2207 0
Fax	+49 (0) 212 2207 222
Email	compliance@ungerglobal.com
Website	www.ungerglobal.com

1.4. Emergency telephone number

Emergency telephone	Telephone number: +49 (0) 212 22 07 0 Description: Business hours: Monday to Thursday 8 am - 5 pm, Friday 8 am - 4 pm
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP classification, notes	Acc. to the criteria of the Regulation (EC) No. 1272/2008 (CLP) not classified as hazardous.
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2.2. Label elements

Precautionary statements	P102 Keep out of reach of children. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/attention.
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2.3. Other hazards

Physicochemical effects	Spilled resin is a slipping hazard.
Health effect	Resin can cause eye and skin irritation, avoid eye and skin contact.
Environmental effects	Cf. section 12 for information on ecology.
Symptoms and effects of potential misuse	No information required.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Cation exchange resin (EU)	CAS No.: 69011-18-3	Eye Irrit. 2; H319	50 - 60 % wt/wt	
Anion exchange resin (EU)	CAS No.: 69011-20-7	Skin Irrit. 2; H315 Eye Irrit. 2; H319	40 - 50 % wt/wt	
Description of the mixture	Spherical particles: +1,2 mm < 5%, - 0,3 mm < 1% Solid. Amber. Stored in water.			

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Place unconscious person on the side in the recovery position and ensure breathing can take place. If medical advice is needed, have product container or label at hand.
Inhalation	Due to the physical form the risk of inhalation is minimal. IF INHALED: Move into fresh air and keep at rest.
Skin contact	Wash skin with soap and water.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.
Ingestion	Immediately rinse mouth and drink plenty of water (200-300 ml). Never give liquid to an unconscious person. DO NOT INDUCE VOMITING! If medical advice is needed, have product container or label at hand.

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

Acute symptoms and effects	Cf. section 11.1 - information on toxicological effects.
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4.3. Indication of any immediate medical attention and special treatment needed

Specific details on antidotes	Decontamination, symptomatic treatment. No special antidote known.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Product doesn't ignite. Use fire-extinguishing media appropriate for surrounding materials.
Improper extinguishing media	Water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	This product is not flammable.
Hazardous combustion products	Carbon dioxide (CO ₂). Carbon monoxide (CO). Hydrocarbons. Organic decomposition products. Sulfur dioxide (SO ₂). Sulfur trioxide (SO ₃).

5.3. Advice for firefighters

Personal protective equipment	In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Avoid dust formation. Avoid contact with eyes and skin.
Personal protection measures	Ensure suitable personal protection (including respiratory protection) during

For emergency responders	removal of spillages in a confined area. In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required.
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6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into drains, water courses or onto the ground.
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6.3. Methods and material for containment and cleaning up

Clean up	Sweep up and place into an appropriate container.
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6.4. Reference to other sections

Other instructions	Cf. section 8 for personal protection, and section 13 for waste disposal.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Observe good chemical hygiene practices. Avoid contact with eyes and prolonged skin contact. Avoid eating, drinking and smoking when using the product.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Store at moderate temperatures in dry, well ventilated area.
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Conditions for safe storage

Requirements for storage rooms and vessels	Storage in gateways, passages, stairways, hallways open to public, roofs, attics, cellars and workrooms is not advisable.
Advice on storage compatibility	No incompatibilities known.

7.3. Specific end use(s)

Recommendations	Cf. section 1.2
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SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Biological limit value	Recommended monitoring procedures: NIOSH 0500: Total particulates not otherwise regulated. OSHA PV2121: Gravimetric determination.
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8.2. Exposure controls

Precautionary measures to prevent exposure

Organisational measures to prevent exposure	Thoroughly clean hands, forearms, and face after handling of the product, before eating, drinking and lavatory use, and at the end of the work shift.
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Technical measures to prevent exposure	Use engineering controls to reduce air contamination to permissible exposure level.
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Eye / face protection

Suitable eye protection	Wear approved chemical safety goggles where eye exposure is reasonably probable.
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Hand protection

Skin- / hand protection, short term contact	For prolonged or repeated skin contact use suitable protective gloves.
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Skin protection

Skin protection remark	Wear appropriate clothing to prevent repeated or prolonged skin contact.
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Respiratory protection

Respiratory protection necessary at	Under normal conditions of use respiration protection should not be required.
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Hygiene / environmental

Specific hygiene measures	No specific hygiene procedures noted, but good personal hygiene practices are always advisable. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid. Spherical particles: +1,2 mm < 5%, - 0,3 mm < 1%
Colour	Amber.
Odour	Almost odourless.
pH	Status: In delivery state Comments: No data recorded. Status: In aqueous solution Value: 6 - 8 Method: aqueous suspension
Melting point / melting range	Comments: No data recorded.
Boiling point / boiling range	Comments: No data recorded.
Flash point	Value: > 230 °C Comments: Dry product beginning to inflame
Evaporation rate	Comments: No data recorded.
Flammability	No data recorded.
Vapour pressure	Comments: No data recorded.
Vapour density	Comments: No data recorded.

Relative density	Value: 1,2 g/cm ³ Temperature: 20 °C
Solubility	Medium: Water Comments: Insoluble in water.
Auto-ignition temperature	Value: > 500 °C
Decomposition temperature	Comments: No data recorded.
Viscosity	Comments: No data recorded.
Explosive properties	Not explosive
Oxidising properties	Not oxidizing

9.2. Other information

Softening point	Comments: No data available
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Physical hazards

Content of VOC	Comments: No data available
Particle size	Comments: No data recorded.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable in normal conditions.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No hazardous reactions under regular storage and handlings conditions known.
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10.4. Conditions to avoid

Conditions to avoid	Heating.
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10.5. Incompatible materials

Materials to avoid	Strong oxidising substances.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x). Sulphurous gases (SO _x). Organic decomposition products.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other information regarding health hazards

Eye damage or irritation other information	Prolonged contact may cause redness and/or tearing.
Sensitisation	No specific health warnings noted.
Mutagenicity	No specific health warnings noted.
Carcinogenicity, other information	No specific health warnings noted.
Reproductive toxicity	No specific health warnings noted.
Reproductive toxicity, human experience	No specific health warnings noted.
Assessment of specific target organ toxicity - single exposure, classification	Not data available, probably no subacute toxicity.
Assessment of specific target organ toxicity - repeated exposure, classification	Not data available, probably no chronic toxicity.
Aspiration hazard, comments	Technically not feasible.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic, comments	Based on available data, the classification criteria are not met.
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12.2. Persistence and degradability

Persistence and degradability description/evaluation	The product is not biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulation, evaluation	The product is not bioaccumulating.
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12.4. Mobility in soil

Mobility	Not relevant, due to the form of the product.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain any PBT or vPvB substances.
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12.6. Other adverse effects

Ozone depletion potential	Comments: Ozone depletion potential not known
Photochemical ozone creation potential	Comments: Ozone formation potential not known
Global warming potential	Comments: Global greenhouse effect not known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Dispose of waste and residues in accordance with local authority requirements. No specific disposal method required.
EWC waste code	EWC waste code: 190905 saturated or spent ion exchange resins Classified as hazardous waste: No
EU Regulations	European Waste Inventory according to the Decision 2014/955/EU on the list of waste
National regulations	The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

SECTION 14: Transport information

14.1. UN number

Comments	No recommendation given.
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14.2. UN proper shipping name

Comments	No recommendation given.
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14.3. Transport hazard class(es)

Comments	No recommendation given.
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14.4. Packing group

Comments	No recommendation given.
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14.5. Environmental hazards

Comments	No recommendation given.
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14.6. Special precautions for user

Special safety precautions for user	No recommendation given.
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14.7. Maritime transport in bulk according to IMO instruments

Product name	No recommendation given.
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Additional information

Additional information	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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SECTION 15: Regulatory information

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

EEC-directive	Regulation (EC) No. 1907/2006 and Regulation (EC) 2015/830 Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures.
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	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.
References (laws/regulations)	Health and Safety at Work Act 1974. The Managing for health and safety (HSG65) 2013. L5 Control of substances hazardous to Health. The Control of Substances Hazardous to Health Regulations 2002. Approved codes of practice and guidance. Guidance Note EH40 – Occupational Exposure Limits. BS EN ISO 10882-1:2001 – health and safety in welding and allied processes – sampling of air-borne particles and gases in the operator’s breathing zone – part 1: sampling of airborne particles.
Comments	Ingredients according to the Regulation on Detergents 648/2004: less than 5% anionic surfactants, non-ionic surfactants, perfume.

15.2. Chemical safety assessment

Chemical safety assessment performed	No
Chemical safety assessment	No data recorded.
Exposure scenarios for mixture	No
Exposure scenario comments	No recommendation given.

SECTION 16: Other information

Supplier's notes	The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.
List of relevant H-phrases (Section 2 and 3)	H315 Causes skin irritation. H319 Causes serious eye irritation.
Training advice	Not relevant.
Recommended restrictions on use	Not relevant.
User notes	In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material, as far as not expressly stated otherwise.
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