SECTION 1. Identification of the substance/mixture and of the company/enterprise

1.1. Product identifier

Product name : pH-STAB 2.0
Product code: refer to sales department

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

Specific Treatment
Sectors of use:
Manufacture of food products[SU4]
Product category:
Ion exchange resins

Not recommended uses
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

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Switchboard: +61 1300 704 971 (GMT +9; Language: English)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Pictograms:
None

Hazard Class and Category Code(s):
Non hazardous

Hazard statement Code(s):
Non hazardous

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
None

Hazard statement Code(s):
Non hazardous

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:
None in particular.

2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

Based on available data, there are no substances that interfere with the endocrine system in accordance with Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 in concentrations >0.1.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

No dangerous substance to report.

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts	>= 50 < 100%			69011-22-9		Polymer

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately with plenty of water for at least 15 minutes, holding the eyelids apart. Consult a doctor if the problem persists.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, consult a doctor. Wash contaminated clothing before reuse.

INHALATION: Inhalation is unlikely. Remove the person to fresh air. If breathing is difficult, call a doctor immediately.

INGESTION: Consult a doctor immediately. Induce vomiting only if directed by a doctor. Do not administer anything by mouth to an unconscious person unless directed by a doctor.

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

Information not available

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA: Traditional extinguishing media are available: carbon dioxide, foam, powder, and water spray.

UNSUITABLE EXTINGUISHING MEDIA: None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN CASE OF FIRE Avoid breathing combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION:
Cool containers with water jets to prevent product decomposition and the development of substances potentially hazardous to health. Always wear full fire-fighting protective equipment. Collect extinguishing water, which must not be discharged into sewers. Dispose of contaminated fire-fighting water and fire residues in accordance with current regulations.

EQUIPMENT: Normal fire-fighting clothing, such as open-circuit compressed air breathing apparatus (EN 137), flame-retardant suit (EN 469), flame-retardant gloves (EN 659), and firefighter boots (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:
Resins can be slippery. Do not step on resin spills. Keep non-essential personnel away. Wear appropriate protective equipment (including personal protective equipment listed in Section 8 of the Safety Data Sheet) to prevent contamination of skin, eyes, and personal clothing. These instructions apply to both workers and emergency responders.

6.1.2 For emergency responders:
Prevent the product from entering sewers, surface water or groundwater.

6.2. Environmental precautions

Contain spills
Inform the competent authorities.
Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:
Recover the product for reuse, if possible, or for elimination.

6.3.2 Cleaning up:
After wiping up, wash with water the area and materials involved

6.3.3 Other information:
The product is immiscible with water and will settle in water systems. Large spills: Stop the flow of material if without risk. Dike the spilled material where possible. Absorb in vermiculite, dry sand, or earth and place in containers. After recovering the product, rinse the area with water. Small spills: Clean with absorbent material (e.g., cloth). Clean the surface thoroughly to remove residual contamination. Never return spills to the original containers for reuse. Sweep or vacuum the spill and collect in a suitable container for disposal. For waste disposal, see section 13 of the SDS. Collect the spilled product and place it in containers for disposal.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin.
Handle the product after consulting all other sections of this safety data sheet.
Ensure adequate ventilation.
The products supplied are intended for industrial use only.
Observe good industrial hygiene practices.
During handling, avoid spillage as it is harmful to the environment.
The product must not be released into the environment – it must not be discharged into drains, waterways or the soil.
Wash thoroughly after use.
On contact with water or solvents, traces of substances such as (C8H7SO3Na)n, C6H5COOH, C6H5CHO, NaHSO4, HCHO etc. may be released into the liquid. Please refer to current regulations and, if necessary, call for details.
Measures in case of accidental release
In case of accidental release, prevent spilled resins from entering drains, waterways or water supplies. The product is immiscible with water and will settle in water systems.
Personal precautions
Keep unnecessary personnel away. Keep people away and upwind of the spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material without wearing appropriate protective clothing. Ensure adequate ventilation. Notify local authorities if significant spills cannot be contained. Surfaces may become slippery after spillage.
Environmental precautions
Avoid discharge into drains, waterways or the ground.
Containment methods
Stop the flow of material if it is safe to do so
Cleaning methods
Ventilate the contaminated area. Wear appropriate protective equipment and clothing during cleaning. The product is immiscible with water and will settle in water systems. Stop the flow of material if it is safe to do so. After recovering the product, wash the area with water. Collect with a broom or vacuum cleaner and place in suitable containers for disposal. Never return spilled material to the original containers for reuse. Have the material disposed of by authorised companies.
All applications for synthetic ion exchange resins and adsorbents require some form of pre-treatment after removal from the original packaging and once loaded into the plant.
In some industrial contexts, this process is relatively simple, while in others it can be more complex and require a longer commissioning period.

We recommend consulting AEB's sales department and any technical documents.
In particular, we highlight the following useful and necessary information:
- The importance of packaging
- Minimising on-site storage prior to use/shelf life
- Correct storage conditions
- Inspection/cleaning of tanks before loading
- Correct loading/commissioning procedure
- Pre-treatment before commissioning
- Operation according to the manufacturer's guidelines (e.g. pressure drop, flow rates, operating temperatures and maximum temperature variations, etc.)
- Quality of the regenerant (where applicable)
- Thorough testing of initial product quality (approved)

There are manufacturer-specific pre- and post-treatment procedures developed to ensure that resins meet the required food quality standards.AEB spa also guarantees that, if the products are transported and stored correctly on site prior to installation and then treated in line with the instructions at the time of commissioning, the products will meet the end user's requirements.
No synthetic ion exchange or adsorbent resin should be used in a food contact application without first verifying that the material complies with food contact regulations and is in a suitable state of cleanliness at the time of commissioning.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers in a cool, dry, well-ventilated place at room temperature (2–30°C), unless otherwise indicated. Store away from direct sunlight. Avoid freezing (0°C) and drying (40°C). Keep containers tightly closed. Keep away from oxidizing substances and separate from food. Opened containers must be resealed and kept upright to prevent leakage. Prevent release of the mixture into the environment by appropriate containment. Keep away from drains.

7.3. Specific end use(s)

None in particular.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

No data available.

8.2. Exposure controls

Appropriate engineering controls:
Manufacture of food products:
No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection
Wear protective goggles that seal tightly. (ref. standard EN ISO 16321).

(b) Skin protection

(i) Hand protection
If prolonged contact with the product is expected, protect your hands with penetration-resistant work gloves. (ref. standard EN 374).

(ii) Other
Wear work clothes with long sleeves and category I safety footwear for professional use (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

(c) Respiratory protection
Not required for normal use, unless otherwise specified in the chemical risk assessment.

(d) Thermal hazards
No hazard to report

Environmental exposure controls:
Emissions and production processes, including those from ventilation equipment, should be monitored to comply with environmental regulations.

Provide adequate containment systems to prevent the mixture from being released into the environment and into drains.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	Spherical pearls	
Colour	transparent brown yellow	
Odour	not determined as considered not relevant for the characterization of the product	
Odour threshold	not determined as considered not relevant for the characterization of the product	
Melting point/freezing point	not determined as considered not relevant for the characterization of the product	
Boiling point or initial boiling point and boiling range	not determined as considered not relevant for the characterization of the product	
Flammability	not determined as considered not relevant for the characterization of the product	
Lower and upper explosion limit	not determined as considered not relevant for the characterization of the product	
Flash point	not determined as considered not relevant for the characterization of the product	
Auto-ignition temperature	>500°C	
Decomposition temperature	>450°C	
pH	not determined as considered not relevant for the characterization of the product	
Kinematic viscosity	not determined as considered not relevant for the characterization of the product	
Solubility	not determined as considered not relevant for the characterization of the product	
Water solubility	not determined as considered not relevant for the characterization of the product	
Partition coefficient n-octanol/water (log value)	not determined as considered not relevant for the characterization of the product	
Vapour pressure	not determined as considered not relevant for the characterization of the product	
Density and/or relative density	1,2 - 1,3	

Physical and chemical properties	Value	Determination method
Relative vapour density	not determined as considered not relevant for the characterization of the product	
Particle characteristics	not determined as considered not relevant for the characterization of the product	

9.2. Other information

9.2.1 Information with regard to physical hazard classes

Irrilevant

9.2.2 Other safety characteristics

Irrilevant

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular dangers of reaction with other substances under normal conditions of use.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Under normal conditions of use and storage, no hazardous reactions are expected.

10.4. Conditions to avoid

Drying (>40°C) and freezing (<0°C). Avoid high temperatures, flames, sparks, and direct exposure to sunlight. Observe the usual precautions for handling chemicals.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

No hazardous decomposition products are produced under normal conditions of use, storage, and transportation. Irritating and/or toxic fumes and gases may be released following product decomposition. At thermal decomposition temperatures, HCl, NOx, CO, and CO2 are released.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) acute toxicity: based on available data, the classification criteria are not met
ATE(mix) oral = Not classified (no relevant component)
ATE(mix) dermal = Not classified (no relevant component)
ATE(mix) inhal = Not classified (no relevant component)
(b) skincorrosion/irritation: based on available data, the classification criteria are not met
(c) serious eye damage/irritation: based on available data, the classification criteria are not met
(d) respiratoryorskinsensitisation: based on available data, the classification criteria are not met
(e) germ cell mutagenicity: based on the available data, the classification criteria are not met.
(f) carcinogenicity: based on available data, the classification criteria are not met
(g) eproductivetoxicity: based on available data, the classification criteria are not met
(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met
(i) specific target organ toxicity (STOT) repeated exposure: based on available data, the classification criteria are not met
(j) aspiration hazard: based on available data, the classification criteria are not met

concerning substances:

(a) acute toxicity: Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts: Ingestion - LD50 rat (mg/kg/24h bw): n.a.
Skin contact - LC50 rat/rabbit (mg/kg/24h bw): n.a.
Inhalation - LD50 rat (mg/l/4h): n.a.

(b) skincorrosion/irritation:
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts: based on available data the classification criteria are not met
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts: based on available data the classification criteria are not met

(c) serious eye damage/irritation:
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts: based on available data the classification criteria are not met
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts: based on available data the classification criteria are not met

(d) respiratoryorskinsensitisation:
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts: based on available data the classification criteria are not met

(e) germ cell mutagenicity:
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts: based on available data the classification criteria are not met

(f) carcinogenicity:
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts: based on available data the classification criteria are not met

(g) eproductivetoxicity:
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts: based on available data the classification criteria are not met

(h) specific target organ toxicity (STOT) single exposure:
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts: based on available data the classification criteria are not met

(i) specific target organ toxicity (STOT) repeated exposure:
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts: based on available data the classification criteria are not met

(j) aspiration hazard: Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts: based on available data the classification criteria are not met

11.2. Information on other hazards

No data available.

11.2.1. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the endocrine system in accordance with Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 in concentrations >0.1.

SECTION 12. Ecological information

12.1. Toxicity

Use according to good working practices, avoiding dispersing the product into the environment.
Acute toxicity M-factor = 1
Chronic toxicity M-factor = 1

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

No data available

==========
Related to contained substances:
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts:
Not available

12.3. Bioaccumulative potential

No data available

==========
Related to contained substances:

Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts:
Not available

12.4. Mobility in soil

No data available

==========
Related to contained substances:
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts:
Not available

12.5. Results of PBT and vPvB assessment

Based on available data, there are no PBT or vPvB substances according to Regulation (EC) 1907/2006, Annex XIII

12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the endocrine system in accordance with Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 in concentrations >0.1.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Instructions for disposing of ion exchange resins and adsorbents generally involve the following steps:
a) Regeneration: if possible, regenerate the resin to extend its life. This involves using specific chemicals to restore the resin's ion exchange capacity.

b) Containment: Ensure that used resins and adsorbents are adequately contained to prevent any environmental contamination. This includes the use of appropriate containers and their correct labeling.

c) Incineration: For resins that cannot be regenerated or reused, high-temperature incineration is recommended. This method ensures the complete destruction of any hazardous substances contained in the resins.

d) Landfill: In some cases, resins can be disposed of in landfills designed to treat hazardous waste. However, this solution is less preferable due to potential leaching issues.

e) Compliance: Always follow local regulations and guidelines for the disposal of hazardous materials. This may include specific procedures for the handling, transport, and disposal of ion exchange resins and adsorbents.

Unused product residues should be considered non-hazardous special waste. Disposal should be carried out by a licensed waste management company in accordance with national and local regulations. Solid residues may be suitable for disposal in authorized landfills.

Contaminated packaging
Contaminated packaging should be recovered or disposed of in accordance with national waste management

regulations. Prevent spilled material from entering sewer systems, waterways, or water supplies. Both product residues and uncleaned empty packaging must be labeled, sealed, and sent for disposal by incineration, landfill, or recycling in accordance with local, regional, and national regulations. For disposal within the EU, it is the user's responsibility to assign the appropriate waste code in accordance with the European List of Waste (LoW), based on the application for which the product was used.

Not contaminated packaging
Empty containers should be taken to an authorized waste treatment site for recycling or disposal.

Special precautions
Both products and packaging must be disposed of safely and in accordance with relevant local and national regulations. Empty containers or liners may retain product residues: prevent spilled material from entering sewer systems, waterways, or water supplies.

SECTION 14. Transport information

14.1. UN number or ID number

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

SECTION 15. Regulatory information

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

Restrictions relating to the product or the substances contained (Annex XVII of EC Regulation 1907/2006):
The restriction conditions for the following entries must be considered:
List No. 78:Ion exchange resins (IER) containing synthetic polymer microparticles (SPM) in concentrations exceeding 0.01% by weight.The synthetic polymer microparticles supplied are subject to the conditions set out in Annex XVII, entry 78, by
way of derogation as per Paragraph 4a of Regulation (EC) No. 1907/2006 of the European Parliament and of the Council (Reg. (EU) 2023/2055)
HS Code:3914: Ion-exchangers based on polymers of headings 3901to 3913, in primary form

Substances in the Candidate List (art. 59 of EC Regulation 1907/2006): the product does not contain SVHC in a percentage ≥ 0.1%.

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 1.1. Product identifier, 2.3. Other hazards, 6.1. Personal precautions, protective equipment and emergency procedures, 6.2. Environmental precautions, 6.3. Methods and material for containment and cleaning up, 7.1. Precautions for safe handling, 8.2. Exposure controls, 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 11.2. Information on other hazards, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 12.6. Endocrine disrupting properties, 13.1. Waste treatment methods, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

No hazard to report. Classification procedure: Calculation method

Main normative references:
Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.
Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.
Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable
n.d.: not available
ADR: Accord europèen relative au transport International des merchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE: Acute Toxicity Estimat
BFC: BioconCentration Factor
BOD: Biochemical Oxigen Demand
CAS: Chemical Abstract Service number

CAP: Centre AntiPoison
CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)
CL50/LC50: Lethal Concentration 50
DL50/LD50: Lethal Dose 50
COD: Chemical Oxygen Demand
DNEL: Derived No Effect Level
EC50: half maximal Effective Concentration
ERC: Enviroment Release Classes
EU/UE: European Union
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
Kow: Octanol water partition coefficient
NOEC: No Observed Effect Concentration
OEL: Occupational Exposure Limit
PBT: Persistent Bioaccumulative and Toxic
PC: Product Categories
PNEC: Predicted No Effect Concentration
PROC: Process Categories
RID: Règlement concernent le transport International ferroviaire des merchandises dangereuses (Regulations concerning International rail transport of dangerous goods)
STOT: Target Organ Systemic Toxicity
STOT (RE): Repeated Exposure
STOT (SE): Single Exposure
STP: Sewage Treatment Plants
SU: Sector of Use
SVCH: Substance of Very High Concern
TLV: Threshold Limit Value
vPvB: Very Persistent Very Bioaccumulative

References and Sources:
- ECHA Registered Substances:
https://chem.echa.europa.eu/

- SDS raw material supplier

- GESTIS International Limit Value: http://limitvalue.ifa.dguv.de

This msds was made in good faith by technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

*** this tab annuls and replaces any previous edition.

Changes to the previous edition: general update.