# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

# AAV•Tek™ AEX Buffer: AAV8 Equilibration Buffer 18A

Version number: GHS 1.0 Date of compilation: 2023-05-10

## SECTION 1: Identification

### 1.1 Product identifier

Name **AAV•Tek™ AEX Buffer: AAV8 Equilibration Buffer 18A**

Product number **20744**

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

Relevant identified uses General use

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

Teknova
2451 Bert Drive
Hollister California 95023
United States

Telephone: 1-800-209-4488
e-mail: info@teknova.com
Website: www.teknova.com

### 1.4 Emergency telephone number

CHEM TREC Emergency Phone Number (800)-424-9300

## SECTION 2: Hazard(s) identification

### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

This mixture does not meet the criteria for classification.

### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

not required

### 2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0.1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0.1%.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

Proprietary Information.

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

General notes

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

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

Hazardous combustion products

Nitrogen oxides (NOx)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No. | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source |
|---|---|---|---|---|---|---|---|---|---|---|---|
| US | sucrose | 57-50-1 | REL | | 10 (10 h) | | | | | i | NIOSH REL |
| US | sucrose | 57-50-1 | PEL | | 15 | | | | | i, dust | 29 CFR 1910.1000 |
| US | sucrose | 57-50-1 | REL | | 5 (10 h) | | | | | r | NIOSH REL |
| US | sucrose | 57-50-1 | PEL | | 5 | | | | | r, dust | 29 CFR 1910.1000 |
| US | sucrose (saccharose) | 57-50-1 | TLV® | | 10 | | | | | | ACGIH® 2023 |
| US | hydrogen chloride | 7647-01-0 | REL | | | | | 5 | 7 | | NIOSH REL |
| US | hydrogen chloride | 7647-01-0 | TLV® | | | | | 2 | | | ACGIH® 2023 |
| US | hydrogen chloride | 7647-01-0 | PEL | | | | | 5 | 7 | | 29 CFR 1910.1000 |
| US | hydrogen chloride (muriatic acid) (hydrochloric acid) | 7647-01-0 | PEL (CA) | 0.3 | 0.45 | | | 2 | | | Cal/OSHA PEL |

Notation

| | |
|---|---|
| Ceiling-C | ceiling value is a limit value above which exposure should not occur |
| dust | as dust |
| i | inhalable fraction |
| r | respirable fraction |
| STEL | short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) |
| TWA | time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified |

Relevant DNELs of components of the mixture

| Name of substance | CAS No. | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|---|---|---|---|---|---|---|
| Hydrochloric Acid, 6N | 7647-01-0 | DNEL | 8 mg/m³ | human, inhalatory | worker (industry) | chronic - local effects |

Relevant DNELs of components of the mixture

| Name of substance | CAS No. | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|---|---|---|---|---|---|---|
| Hydrochloric Acid, 6N | 7647-01-0 | DNEL | 15 mg/m³ | human, inhalatory | worker (industry) | acute - local effects |

Relevant PNECs of components of the mixture

| Name of substance | CAS No. | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|---|---|---|---|---|---|---|
| Magnesium Chloride, Anhydrous | 7786-30-3 | PNEC | 3.21 $^{mg}/_{l}$ | aquatic organisms | freshwater | short-term (single instance) |
| Magnesium Chloride, Anhydrous | 7786-30-3 | PNEC | 0.32 $^{mg}/_{l}$ | aquatic organisms | marine water | short-term (single instance) |
| Magnesium Chloride, Anhydrous | 7786-30-3 | PNEC | 90 $^{mg}/_{l}$ | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Magnesium Chloride, Anhydrous | 7786-30-3 | PNEC | 288.9 $^{mg}/_{kg}$ | aquatic organisms | freshwater sediment | short-term (single instance) |
| Magnesium Chloride, Anhydrous | 7786-30-3 | PNEC | 28.89 $^{mg}/_{kg}$ | aquatic organisms | marine sediment | short-term (single instance) |
| Magnesium Chloride, Anhydrous | 7786-30-3 | PNEC | 662.8 $^{mg}/_{kg}$ | terrestrial organisms | soil | short-term (single instance) |

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

### Eye/face protection

Wear eye/face protection.

### Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material

Nitrile

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance**

| | |
|---|---|
| Physical state | liquid |
| Color | no data available |
| Particle | not relevant (liquid) |
| Odor | no data available |

**Other safety parameters**

| | |
|---|---|
| pH (value) | not determined |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 100 °C |
| Flash point | not determined |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Vapor pressure | not determined |
| Density | not determined |
| Vapor density | not determined |
| Relative density | Information on this property is not available |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|---|---|
| - n-octanol/water (log KOW) | this information is not available |
| Auto-ignition temperature | not determined |
| Viscosity | not determined |
| Explosive properties | none |

| | | |
|---|---|---|
| | Oxidizing properties | none |
| 9.2 | **Other information** | there is no additional information |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

This mixture does not meet the criteria for classification.

#### Acute toxicity

The classification criteria for these hazard classes are not met.

#### Skin corrosion/irritation

The classification criteria for this hazard class are not met. Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

The classification criteria for this hazard class are not met. Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitization

The classification criteria for these hazard classes are not met.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

The classification criteria for this hazard class are not met.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

| Name of substance | CAS No | Classification | Number |
|---|---|---|---|
| Hydrochloric Acid, 6N | 7647-01-0 | 3 | |

Legend
3 Not classifiable as to carcinogenicity in humans

### Specific target organ toxicity - single exposure

The classification criteria for this hazard class are not met. Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

The classification criteria for this hazard class are not met.

### Aspiration hazard

The classification criteria for this hazard class are not met.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0.1%.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0.1%.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

| | | |
|---|---|---|
| **14.1** | **UN number** | not subject to transport regulations |
| **14.2** | **UN proper shipping name** | not relevant |
| **14.3** | **Transport hazard class(es)** | none |
| **14.4** | **Packing group** | not assigned |
| **14.5** | **Environmental hazards** | non-environmentally hazardous acc. to the dangerous goods regulations |

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations**

**Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information**

Not subject to transport regulations.

**International Maritime Dangerous Goods Code (IMDG) - Additional information**

Not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

**National regulations (United States)**

### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities

| Name of substance | CAS No | Notes | Reportable quantity (pounds) | Threshold planning quantity (pounds) |
|---|---|---|---|---|
| Hydrochloric Acid, 6N | 7647-01-0 | f | 5,000 | 500 |

Legend
f Chemical on the original list that does not meet toxicity criteria but because of its acute lethality, high production volume and known risk is considered chemical of concern ("Other chemicals"). (November 17, 1986, and February 15, 1990.)

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

| Name of substance | CAS No | Remarks | Effective date |
|---|---|---|---|
| Hydrochloric Acid, 6N | 7647-01-0 | acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size | 1987-01-01 |

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance | CAS No | Remarks | Statutory code | Final RQ pounds (Kg) |
|---|---|---|---|---|
| Hydrochloric Acid, 6N | 7647-01-0 | | 1<br>3 | 5000 (2270) |

Legend
1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
3 "3" indicates that the source is section 112 of the Clean Air Act

### Clean Air Act

| Name of substance | CAS No | Type of registration | Basis for listing | Threshold quantity (lbs) |
|---|---|---|---|---|
| Hydrochloric Acid, 6N | 7647-01-0 | Toxic substance | a | 5000 |
| Hydrochloric Acid, 6N | 7647-01-0 | Toxic substance | d | 15000 |

Legend
a Mandated for listing by Congress.
d Toxicity of hydrogen chloride, potential to release hydrogen chloride, and history of accidents.

### Right to Know Hazardous Substance List

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No. | Remarks | Classifications |
|---|---|---|---|
| Hydrochloric Acid, 6N | 7647-01-0 | | CO<br>R1 |

Legend

| | |
|---|---|
| CO | Corrosive |
| R1 | Reactive - First Degree |

### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

### Industry or sector specific available guidance(s)

### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|---|---|---|
| Chronic | / | none |
| Health | 0 | no significant risk to health |
| Flammability | 0 | material that will not burn under typical fire conditions |
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | - | |

### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category | Degree of hazard | Description |
|---|---|---|
| Flammability | 0 | material that will not burn under typical fire conditions |
| Health | 0 | material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

### National inventories

| Country | Inventory | Status |
|---|---|---|
| US | TSCA | not all ingredients are listed |

Legend

| | |
|---|---|
| TSCA | Toxic Substance Control Act |

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information, including date of preparation or last revision

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Disclaimer

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculation are based on information furnished by the manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in section 1. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Teknova, inc. Shall not be held liable for any damage resulting from handling or from contact with the above product.
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