# SAFETY DATA SHEET of:

# 4002891 283430 Crystal Liquid BIB

**Revision date: Wednesday, January 31, 2024**

**S123.454**

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

### 1.1 Product identifier:

# 4002891 283430 Crystal Liquid BIB

**UFI:** MDYX-H1FX-730A-HGET

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

Dishwashing Detergent (AISE_SUMI_PW_3_2)

Concentration in use: /

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

**Greenspeed**

P.O.Box 1250

2280 CG Rijswijk (ZH), NL

Phone: +31703458737 — E-mail: greenspeed@greenspeed.eu — Website: http://www.greenspeed.eu/

### 1.4 Emergency telephone number:

BE: +32 70 245 245 // NL: +31 88 755 8000 Nationaal Vergiftigingen Informatie Centrum (NVIC) (Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen.) // FR: + 33 (0)1 45 42 59 59 // LUX: (+352) 8002-5500

## SECTION 2: Hazards identification:

### 2.1 Classification of the substance or mixture:

Classification of the substance or mixture in accordance with regulation (EU) 1272/2008

H290 Met. Corr. 1 H314 Skin Corr. 1A H318 Eye Dam. 1

### 2.2 Label elements:

Pictograms



### Signal word

Danger

### Hazard statements

| | |
|---|---|
| **H290 Met. Corr. 1:** | May be corrosive to metals. |
| **H314 Skin Corr. 1A H318 Eye Dam. 1:** | Causes severe skin burns and eye damage. |

### Precautionary statements

| | |
|---|---|
| **P280:** | Wear protective gloves, protective clothing, eye protection, face protection. |
| **P303+P361+P353:** | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| **P305+P351+P338:** | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| **P310:** | Immediately call a POISON CENTER or doctor. |

### Contains

Potassium hydroxide  Sodium hydroxide

### 2.3 Other hazards:

None

## SECTION 3: Composition/information on ingredients:

### 3.2 Mixtures:

| | | | |
|---|---|---|---|
| Sodium hydroxide | ≤ 20 % | CAS number: | 1310-73-2 |
| | | EINECS: | 215-185-5 |
| | | REACH Registration number: | 01-2119457892-27 |
| | | CLP Classification: | H290 Met. Corr. 1<br>H314 Skin Corr. 1A<br>H318 Eye Dam. 1 |
| | | Additional data: | H314 Skin Corr. 1A >5% ; H314 Skin Corr. 1B 2-5% ; H315 >0,5% ; H319 >0,5% |
| Potassium hydroxide | ≤ 5 % | CAS number: | 1310-58-3 |
| | | EINECS: | 215-181-3 |
| | | REACH Registration number: | 01-2119487136-33 |
| | | CLP Classification: | H290 Met. Corr. 1<br>H302 Acute tox. 4<br>H314 Skin Corr. 1A<br>H318 Eye Dam. 1 |
| | | Additional data: | H314 Skin Corr. 1A >5% ; H314 Skin Corr. 1B 2-5% ; H315 >0,5% ; H319 >0,5%<br>ATE(H302) = 356,00 mg/kg |

For the full text of the H phrases mentioned in this section, see section 16.

## SECTION 4: First aid measures:

### 4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur.

| | |
|---|---|
| **Skin contact:** | Remove contaminated clothing, rinse skin with plenty of water and immediately transport to hospital. |
| **Eye contact:** | Thoroughly rinse with water (contact lenses to be removed if this is easily done) then take to physician. |
| **Ingestion:** | Rinse mouth, do not induce vomiting, take to hospital immediately. |
| **Inhalation:** | Let sit upright, fresh air, rest and take to hospital. |

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

| | |
|---|---|
| **Skin contact:** | Caustic, redness, pain, serious burns |
| **Eye contact:** | Caustic, redness, blurred vision, pain |
| **Ingestion:** | Caustic, lack of breath, vomiting, blisters on lips and tongue, burning pain in mouth and throat, gullet and stomach |
| **Inhalation:** | Headache, dizziness, nausea, drowsiness, unconsciousness |

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

None

## SECTION 5: Firefighting measures:

### 5.1 Extinguishing media:

CO2, foam, powder, sprayed water

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

None

### 5.3 Advice for firefighters:

| | |
|---|---|
| **Extinguishing agents to be avoided:** | None |

## SECTION 6: Accidental release measures:

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

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

### 6.2 Environmental precautions:

Do not allow to flow into sewers or open water.

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

Contain released substance, store into suitable containers. If possible, remove by using absorbent material.

### 6.4 Reference to other sections:

For further information, check sections 8 & 13.

## SECTION 7: Handling and storage:

### 7.1 Precautions for safe handling:

Handle with care to avoid spillage.

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

Keep in a sealed container in a closed, frost-free, ventilated room.

### 7.3 Specific end use(s):

Dishwashing Detergent (AISE_SUMI_PW_3_2)

## SECTION 8: Exposure controls/personal protection:

### 8.1 Control parameters:

Listing of the hazardous ingredients in section 3, of which the workplace exposure limit values are known

Sodium hydroxide 2 mg/m³ (8h), Potassium hydroxide 2 mg/m³

### 8.2 Exposure controls:

| | | |
|---|---|---|
| **Inhalation protection:** | Use with sufficient exhaust ventilation. If necessary, use an air-purifying face mask in case of respiratory hazards. Use the ABEK type as protection against these troublesome levels. |  |
| **Skin protection:** | Handling with nitril-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,35 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands. |  |
| **Eye protection:** | Keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems. |  |
| **Other protection:** | Wear impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question. |  |
| **Environmental controls:** | Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions. For further information, check sections 6 and 13. | |
| **Engineering controls:** | The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Adequate ventilation should be provided so that exposure limits are not exceeded. For further information, check section 7. | |

## SECTION 9: Physical and chemical properties:

### 9.1 Information on basic physical and chemical properties:

| | |
|---|---|
| **Physical state, 20°C:** | Liquid |
| **Colour:** | colourless |

| | |
|---|---|
| **Odour:** | characteristic |
| **Melting point/freezing point:** | 0 °C |
| **Boiling point/Boiling range:** | 100 °C — 100 °C |
| **Flammability (solid, gas):** | Not applicable |
| **Lower explosive limit, (Vol %):** | / |
| **Upper explosive limit, (Vol %):** | / |
| **Flash point:** | / |
| **Auto-ignition temperature:** | / |
| **Decomposition temperature:** | / |
| **pH:** | 13.4 |
| **pH 1% diluted in water:** | / |
| **Kinematic viscosity, 40°C:** | 1 mm²/s |
| **Solubility in water:** | Completely soluble |
| **Partition coefficient: n-octanol/water (log value):** | Not applicable |
| **Vapour pressure, 20°C,:** | / |
| **Relative density, 20°C:** | 1.3100 kg/l |
| **Vapour density:** | Not applicable |
| **Particle characteristics:** | / |

### 9.2 Other information:

| | |
|---|---|
| **Dynamic viscosity, 20°C:** | 1 mPa.s |
| **Sustained combustion test:** | / |
| **Evaporation rate (n-BuAc = 1):** | 0.300 |
| **Volatile organic component (VOC):** | / |
| **Volatile organic component (VOC):** | 0.000 g/l |

## SECTION 10: Stability and reactivity:

### 10.1 Reactivity:

Stable under normal conditions.

### 10.2 Chemical stability:

Extremely high or low temperatures.

### 10.3 Possibility of hazardous reactions:

None

### 10.4 Conditions to avoid:

Protect from sunlight and do not expose to temperatures exceeding + 50°C.

### 10.5 Incompatible materials:

Keep away from acids

### 10.6 Hazardous decomposition products:

Under recommended usage conditions, hazardous decomposition products are not expected.

## SECTION 11: Toxicological information:

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

a) acute toxicity:

Not classified according to the CLP calculation method

**Calculated acute toxicity, ATE oral:** > 2,000 mg/kg
**Calculated acute toxicity, ATE dermal:** > 2,000 mg/kg

| | | |
|---|---|---|
| Sodium hydroxide | LD50 oral, rat: | ≥ 5,000 mg/kg |
| | LD50 dermal, rabbit: | ≥ 5,000 mg/kg |
| | LC50, Inhalation, rat, 4h: | ≥ 50 mg/l |
| Potassium hydroxide | LD50 oral, rat: | 356 mg/kg |
| | LD50 dermal, rabbit: | ≥ 5,000 mg/kg |
| | LC50, Inhalation, rat, 4h: | ≥ 50 mg/l |

b) skin corrosion/irritation:

H314 Skin Corr. 1A H318 Eye Dam. 1: Causes severe skin burns and eye damage.

c) serious eye damage/irritation:

H314 Skin Corr. 1A H318 Eye Dam. 1: Causes severe skin burns and eye damage.

d) respiratory or skin sensitisation:

Not classified according to the CLP calculation method

e) germ cell mutagenicity:

Not classified according to the CLP calculation method

f) carcinogenicity:

Not classified according to the CLP calculation method

g) reproductive toxicity:

Not classified according to the CLP calculation method

h) STOT-single exposure:

Not classified according to the CLP calculation method

i) STOT-repeated exposure:

Not classified according to the CLP calculation method

j) aspiration hazard:

Not classified according to the CLP calculation method

### 11.2 Information on other hazards:

No additional data available

## SECTION 12: Ecological information:

### 12.1 Toxicity:

| | | |
|---|---|---|
| Sodium hydroxide | LC50 (Fish): | 35 - 189 mg/L (96h) |
| | EC50 (Daphnia): | 33 - 450 mg/L (48h) |

### 12.2 Persistence and degradability:

No additional data available

### 12.3 Bioaccumulative potential:

No additional data available

### 12.4 Mobility in soil:

**Water hazard class, WGK (AwSV):** 1

**Solubility in water:** Completely soluble

### 12.5 Results of PBT and vPvB assessment:

No additional data available

### 12.6 Endocrine disrupting properties:

No additional data available

### 12.7 Other adverse effects:

No additional data available

## SECTION 13: Disposal considerations:

### 13.1 Waste treatment methods:

The product may be discharged in the indicated percentages of utillization, provided it is neutralised to pH 7. Possible restrictive regulations by local authority should always be adhered to.

## SECTION 14: Transport information:




### 14.1 UN number or ID number:

1824

### 14.2 UN proper shipping name:

UN 1824 Sodium hydroxide solution, 8, II, (E)

### 14.3 Transport hazard class(es):

**Class(es):** 8
**Identification number of the hazard:** 80

### 14.4 Packing group:

II

### 14.5 Environmental hazards:

Not dangerous to the environment

### 14.6 Special precautions for user:

**Hazard characteristics:** Risk of burns. Risk to the aquatic environment and the sewerage system.
**Additional guidance:** Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments:

Not applicable

## SECTION 15: Regulatory information:

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

**Water hazard class, WGK (AwSV):** 1
**Volatile organic component (VOC):** /
**Volatile organic component (VOC):** 0.000 g/l
**Composition by regulation (EC) 648/2004:**

### 15.2 Chemical Safety Assessment:

No data available

## SECTION 16: Other information:

### Legend to abbreviations used in the safety data sheet:

**ADR:** The European Agreement concerning the International Carriage of Dangerous Goods by Road
**ATE:** Acute Toxicity Estimate
**BCF:** Bioconcentration factor
**CAS:** Chemical Abstracts Service
**CLP:** Classification, Labelling and Packaging of chemicals
**EINECS:** European INventory of Existing commercial Chemical Substances
**LC50:** median Lethal Concentration for 50% of subjects
**LD50:** median Lethal Dose for 50% of subjects
**Nr.:** Number
**PBT:** Persistent, Toxic, Bioaccumulative
**STOT:** Specific Target Organ Toxicity
**UFI:** Unique Formula Identifier
**vPvB:** very Persistent and very Bioaccumulative substances

| | |
|---|---|
| **WGK:** | Water hazard class |
| **WGK 1:** | Slightly hazardous for water |
| **WGK 2:** | Hazardous for water |
| **WGK 3:** | Extremely hazardous for water |

### Legend to the H Phrases used in the safety data sheet

H290 Met. Corr. 1: May be corrosive to metals. H302 Acute tox. 4: Harmful if swallowed. H314 Skin Corr. 1A H318 Eye Dam. 1: Causes severe skin burns and eye damage.

### CLP Calculation method

On basis of test data for corrosivity, CLP Calculation method for all other classes

### Reason of revision, changes of following items

None

### SDS reference number

ECM-107302,00

*This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 2020/878. Classification has been calculated in accordance with European regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application , the user must carry out a material suitability and safety study himself.*