# SAFETY DATA SHEET

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

# GLB Cell Extend

Version 2.0 Revision Date 2020.03.12 Print Date 2022.01.20

## SECTION 1. IDENTIFICATION

Product name : GLB Cell Extend

**Manufacturer or supplier's details**

Company : Innovative Water Care, LLC
1400 Bluegrass Lakes Parkway
Alpharetta, GA
30004

Telephone : 1-800-511-6737 (Outside the USA: 1-423-780-2347)
E-mail address : sds@sigurawater.com
Emergency telephone number : 1-800-654-6911 (Outside the USA: 1-423-780-2970)

**Recommended use of the chemical and restrictions on use**

Recommended use : Water treatment chemical

## SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Skin corrosion : Category 1B

Serious eye damage : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

Specific target organ toxicity - repeated exposure : Category 2

**GHS label elements**

Hazard pictograms :

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements : **Prevention:**
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
**Response:**
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
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.
P312 Call a POISON CENTER/ doctor if you feel unwell.
P363 Wash contaminated clothing before reuse.
**Storage:**
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
**Disposal:**
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

**Hazardous components**

| Chemical name / Synonyms | CAS-No. | Concentration (% w/w) |
|---|---|---|
| Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)-, trisodium salt | 139-89-9 | 30 - 40 |
| Aluminium chloride | 7446-70-0 | 5 - 10 |
| Sodium hydroxide | 1310-73-2 | 2 - 3 |
| Trisodium nitrilotriacetate | 5064-31-3 | 0.5 - 1 |

## SECTION 4. FIRST AID MEASURES

| | | |
|---|---|---|
| If inhaled | : | IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. If not breathing, give artificial respiration. Call for medical assistance. |
| In case of skin contact | : | IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes. If clothing comes in contact with the product, the clothing should be removed immediately and laundered before re-use. Seek medical attention if irritation develops. |
| In case of eye contact | : | IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately. |
| If swallowed | : | IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : | None known. |
| Notes to physician | : | Probable mucosal damage may contraindicate the use of gastric lavage. |

## SECTION 5. FIREFIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Dry chemical<br>Foam<br>Carbon dioxide (CO2)<br>Water |
| Specific hazards during firefighting | : | Will not burn |
| Further information | : | Use water spray to cool unopened containers.<br>In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus. |

| | | |
|---|---|---|
| | | Prevent further leakage or spillage if safe to do so.<br>Use personal protective equipment as required.<br>Evacuate personnel to safe areas. |
| Environmental precautions | : | If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).<br>Do not flush into surface water or sanitary sewer system. |

## SECTION 7. HANDLING AND STORAGE

| | | |
|---|---|---|
| Advice on safe handling | : | Do not take internally.<br>Avoid contact with skin, eyes and clothing.<br>If in eyes or on skin, rinse well with water.<br>Avoid breathing vapours, mist or gas. |
| Conditions for safe storage | : | Store in a cool, dry and well ventilated place. Isolate from incompatible materials.<br>Do not freeze. |
| Materials to avoid | : | Refer to Section 10, "Incompatible Materials." |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|---|---|---|---|
| Aluminium chloride | 7446-70-0 | (Respirable fraction.) | | ACGIH |
| | | TWA (Respirable fraction.) | 1 mg/m3 | ACGIH |
| | | REL | 2 mg/m3<br>(as Al) | NIOSH/GUIDE |
| Sodium hydroxide | 1310-73-2 | | 2 mg/m3 | ACGIH |
| | | Ceil_Time | 2 mg/m3 | NIOSH/GUIDE |
| | | PEL | 2 mg/m3 | OSHA_TRANS |
| | | | 2 mg/m3 | Z1A |

**Engineering measures** : Local exhaust ventilation or other engineering controls are normally required when handling or using this product to

keep airborne exposures below the TLV, PEL or other recommended exposure limit.

**Personal protective equipment**

| | | |
|---|---|---|
| Respiratory protection | : | Wear a NIOSH approved respirator if levels above the exposure limits are possible.<br>Wear a NIOSH approved N95 respirator. |
| Hand protection | | |
| Remarks | : | Avoid contact with skin. Impervious gloves Boots Apron A full impervious suit is recommended if exposure is possible to a large portion of the body. |
| Eye protection | : | Chemical resistant goggles must be worn.<br>Face-shield |
| Skin and body protection | : | Impervious clothing |
| Protective measures | : | Ensure that eyewash stations and safety showers are close to the workstation location. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Appearance | : | liquid |
| Colour | : | no data available |
| Odour | : | no data available |
| Odour Threshold | : | no data available |
| pH | : | 8.5 - 9.0 |
| Melting point/freezing point | : | no data available |
| Boiling point/boiling range | : | no data available |
| Flash point | : | no data available |
| Evaporation rate | : | no data available |
| Flammability (solid, gas) | : | The product is not flammable. |
| Flammability (liquids) | : | no data available |
| Upper explosion limit | : | no data available |
| Lower explosion limit | : | no data available |

| | | |
|---|---|---|
| Vapour pressure | : | no data available |
| Relative vapour density | : | no data available |
| Relative density | : | 1.24 - 1.26 (68 °F / 20 °C) |
| Bulk density | : | no data available |
| Water solubility | : | soluble in cold water |
| Partition coefficient: n-octanol/water | : | Not applicable |
| Auto-ignition temperature | : | no data available |
| Decomposition temperature | : | no data available |
| Viscosity, dynamic | : | no data available |
| Viscosity, kinematic | : | no data available |

## SECTION 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Possibility of hazardous reactions | : | Stable under normal conditions. |
| Conditions to avoid | : | Heat |
| Incompatible materials | : | Oxidizing agents<br>Aluminium |
| Hazardous decomposition products | : | Chlorine<br>Hydrogen chloride |

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure :

Eyes
Skin
Ingestion
Inhalation

**Acute toxicity**

Acute oral toxicity : LD50 (Rat): Believed to be 4,000 - 5,000 mg/kg

| | | |
|---|---|---|
| Acute inhalation toxicity | : | Remarks: no data available |
| Acute dermal toxicity | : | Remarks: no data available |
| Acute toxicity (other routes of administration) | : | Remarks: Corrosive to eyes<br>Corrosive to skin<br>May cause respiratory tract irritation. |

**Skin corrosion/irritation**

Result: Corrosive to skin

**Serious eye damage/eye irritation**

Result: Corrosive to eyes

**Respiratory or skin sensitisation**

Remarks: Not believed to be sensitising to skin.

**Carcinogenicity**

| | | |
|---|---|---|
| **IARC** | Group 2B: Possibly carcinogenic to humans<br>Trisodium nitrilotriacetate | 5064-31-3 |
| **OSHA** | No component of this product present at levels greater than or equal to 0.1% is on OSHA#s list of regulated carcinogens. | |
| **NTP** | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. | |
| **ACGIH** | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. | |

**Repeated dose toxicity**

Remarks: Not known or reported to cause subchronic or chronic toxicity.

**Further information**

Remarks: no data available

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

**Components:**

**Aluminium chloride:**

Partition coefficient: n-octanol/water : Remarks: Not applicable

**Sodium hydroxide:**

Partition coefficient: n-octanol/water : Remarks: Not applicable

**Mobility in soil**

no data available

**Other adverse effects**

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data is available on the product itself.

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Waste from residues : If this product becomes a waste, it will be a nonhazardous waste.
As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations.

## SECTION 14. TRANSPORT INFORMATION

**DOT**

| | | |
|---|---|---|
| **UN number** | : | 1760 |
| **Proper shipping name** | : | Corrosive liquids, n.o.s.<br>(aluminium chloride, Sodium hydroxide) |
| **Transport hazard class** | : | 8 |
| **Packing group** | : | II |
| Labels | : | 8 |
| Emergency Response Guidebook Number | : | 154 |
| **Environmental hazards** | : | no |

**TDG**

| | | |
|---|---|---|
| **UN number** | : | 1760 |
| **Proper shipping name** | : | CORROSIVE LIQUID, N.O.S.<br>(aluminium chloride, Sodium hydroxide) |
| **Transport hazard class** | : | 8 |
| **Packing group** | : | II |
| Labels | : | 8 |
| **Environmental hazards** | : | no |

**IATA**

| | | |
|---|---|---|
| **UN number** | : | 1760 |
| **Proper shipping name** | : | Corrosive liquid, n.o.s.<br>(aluminium chloride, Sodium hydroxide) |
| **Transport hazard class** | : | 8 |
| **Packing group** | : | II |
| Labels | : | 8 |
| **Environmental hazards** | : | no |

**IMDG**

| | | |
|---|---|---|
| **UN number** | : | 1760 |
| **Proper shipping name** | : | Corrosive liquid, n.o.s.<br>(aluminium chloride, Sodium hydroxide) |
| **Transport hazard class** | : | 8 |
| **Packing group** | : | II |
| Labels | : | 8 |
| EmS Number 1 | : | F-A |
| EmS Number 2 | : | S-B |
| **Environmental hazards** | : | Marine pollutant: no |

**ADR**

| | | |
|---|---|---|
| **UN number** | : | 1760 |
| **Proper shipping name** | : | CORROSIVE LIQUID, N.O.S. (aluminium chloride, Sodium hydroxide) |
| **Transport hazard class** | : | 8 |
| **Packing group** | : | II |
| Classification Code | : | C9 |
| Hazard Identification Number | : | 80 |
| Labels | : | 8 |
| **Environmental hazards** | : | no |

**RID**

| | | |
|---|---|---|
| **UN number** | : | 1760 |
| **Proper shipping name** | : | CORROSIVE LIQUID, N.O.S. (aluminium chloride, Sodium hydroxide) |
| **Transport hazard class** | : | 8 |
| **Packing group** | : | II |
| Classification Code | : | C9 |
| Hazard Identification Number | : | 80 |
| Labels | : | 8 |
| **Environmental hazards** | : | no |

| | | |
|---|---|---|
| **Special precautions for user** | : | none |
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | : | Not applicable |

## SECTION 15. REGULATORY INFORMATION

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|---|---|---|---|
| Sodium hydroxide | 1310-73-2 | 1000 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards**

See above: SECTION 2. Hazard Identification-GHS Classification

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

**Clean Water Act**

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

| Components | CAS-No. | Component RQ (lbs) |
|---|---|---|
| Sodium hydroxide | 1310-73-2 | 1000 |

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

| Components | CAS-No. | Concentration |
|---|---|---|
| Sodium hydroxide | 1310-73-2 | 1 - 5 % |

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations**

**Massachusetts Right To Know**

| Components | CAS-No. |
|---|---|
| Aluminium chloride | 7446-70-0 |
| Sodium hydroxide | 1310-73-2 |
| Trisodium nitrilotriacetate | 5064-31-3 |

**Pennsylvania Right To Know**

| Components | CAS-No. |
|---|---|
| Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)-, trisodium salt | 139-89-9 |
| Aluminium chloride | 7446-70-0 |

**New Jersey Right To Know**

| Components | CAS-No. |
|---|---|
| Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)-, trisodium salt | 139-89-9 |
| Aluminium chloride | 7446-70-0 |
| Sodium hydroxide | 1310-73-2 |

**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Canadian lists**

**NPRI**

| Components | CAS-No. |
|---|---|
| Trisodium nitrilotriacetate | 5064-31-3 |

**The components of this product are reported in the following inventories:**

TSCA : The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

## SECTION 16. OTHER INFORMATION

**Full text of other abbreviations**

ACGIH : US. ACGIH Threshold Limit Values
NIOSH/GUIDE : US. NIOSH: Pocket Guide to Chemical Hazards, as amended
OSHA_TRANS : US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Z1A : US. OSHA Table Z-1-A (29 CFR 1910.1000)

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory;

LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

First formulated version in SAP.
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Date format : yyyy/mm/dd

US / EN