



ELIXIR

Safety Data Sheet Elixir for Potato and Beet

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

1.1. Product identifier

Trade name: Elixir for Potato and Beet

Manufacturer: Elixir Global LLC, 264 Omar Khizanishvili street, 0167 Tbilisi, Georgia.

Tel: +995 322 033 339

Customs code: HS 3808 94 900 00

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

Recommended uses: Used to prevent the emergence / spread of fungal, viral and bacterial diseases on potato and beet plants.

Dilution Information: Dilute concentrate in clean tap or well water to 0.2% solution and spray on leaves. 18 tonnes/hectare to be applied once per year.

Use biocides safely. Always read the label and product information before use. This safety data sheet contains general information concerning the chemical, but specific instructions and guidelines are indicated on the product label and in the instructions for use. Visit the web-page for more information: www.elixir.global

1.3. Details of the supplier of the safety data sheet

Supplier: Elixir Global, 264 Omar Khizanishvili street, 0167 Tbilisi, Georgia

Tel: +995 322 033 339

1.4. Emergency telephone number: +995 322 033 339

Emergency telephone comments: The emergency telephone is open between 10 a.m. and 6 p.m. Georgian time on working days.

Section 2: Hazards identification

CLP-classification (Regulation (EC) No 1272/2008):

The product shall not be classified as hazardous according to EU classification and labelling rules.

Main Hazards: Where the solution is stored in bottles one should not try to smell or inhale the evaporations

Health effects Ingestion: Swallowing of the solution in its strongest form may cause irritation to the throat and digestive tract.

Section 3: Composition and information on the ingredients

Elixir Global product contains active chlorine compounds such as HOCl (FAC in mg/L or ppm) generated from sodium chloride by means of electrolysis. The average/standard



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amount of active chlorine in this product is 1000 mg/L. The solution contains no compounds as per the regulations for toxic compounds (67/548/EWG)

Main ingredients	CAS-No	EC-No	Wt/vol %	Symbols
Sodium Chloride	7647-14-5	231-598-3	0.4%	NaCl
Hypochlorous acid	7790-92-3	232-232-5	0.1%	HOCl
Electro – Activated Water	7732-18-5	231-791-2	99.5%	H2O

Section 4: First aid Measures

4.1. Description of first aid measures

Inhalation Seek fresh air. Seek medical advice.

Ingestion Wash out mouth thoroughly seek immediate medical advice.

Skin Remove contaminated clothing. Wash the skin with water. Seek medical advice.

Eyes: Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice.

Other information: When obtaining medical advice, show the safety data sheet or label.

4.2. Most important symptoms and effects, both acute and delayed: May cause slight irritation to the eyes.

4.3. Indication of any immediate medical attention and special treatment needed: Treat symptoms. No special immediate treatment required.

Section 5: Firefighting Measures

5.1. Extinguishing media: Suitable extinguishing media: The product is not directly flammable. Choose extinguishing agents based on the surrounding fire. Unsuitable extinguishing media: Do not use water stream, as it may spread the fire

5.2. Special hazards arising from the substance or mixture: The product is not directly flammable. Avoid inhalation of vapour and fumes – seek fresh air.

5.3. Advice for firefighters: Wear Self -Contained Breathing Apparatus (SCBA) with chemical resistant gloves.



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Section 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth. Rinse with water.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

Section 7: Handling and Storage

7.1. Precautions for safe handling:

Running water and eye wash equipment should be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2 Conditions for safe storage including any incompatibilities:

Store in a dry, cool, well-ventilated area, in plastic containers and ensure the solution is correctly labelled. Shelf life: approximately 12 months. For that keep in tightly closed original packaging/bottle.

7.3. Specific end use(s): none

Section 8: Exposure Control/ Personal Protection

8.1. Control parameters

Legal basis: Directive 2000/39/EC as subsequently amended. Contains no substances subject to reporting requirements.

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166





Personal protective equipment, respiratory protection:
Not required at neutral pH, strongly advised at pH ≤ 5 .

Environmental exposure controls: Ensure compliance with local regulations for emissions.

Section 9: Chemical and Physical Properties

9.1. Information on basic physical and chemical properties

State:	liquid
Colour:	colourless
Odour:	mild chlorine

Odour threshold:	no data
pH (solution for use):	no data
pH (range):	3.5-5
Melting point/freezing point:	0oC.
Initial boiling point and boiling range:	100oC.
Flash point:	no data
Evaporation rate:	no data
Flammability:	
Upper/lower flammability limits:	no data
Upper/lower explosive limits:	no data
Vapour pressure:	2.33 Pa
Vapour density:	no data
Relative density:	1
Solubility:	Solubility in water: Completely
Partition coefficient:	miscible
n-octane/water:	no data
Auto-ignition temperature:	no data
Decomposition temperature:	no data





Viscosity:	no data
Explosive properties:	no data
Oxidising properties:	no data

9.2. Other information: None

Section 10: Stability and Reactivity

10.1. Reactivity: Not reactive

10.2. Chemical stability: the product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions: None known.

10.4. Conditions to avoid: None known.

10.5. Incompatible materials: None known.

10.6. Hazardous decomposition products: None known.

Section 11: Toxicological Information

Acute toxicity - oral: Ingestion of large quantities may cause discomfort. The product does not have to be classified.

Test data are not available.

Acute toxicity - dermal: The product does not have to be classified. Test data are not available.

Acute toxicity - inhalation: The product does not have to be classified. Test data are not available.

Skin corrosion/irritation: May cause slight irritation. Test data are not available.



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Serious eye damage/eye irritation: May cause eye irritation. The product does not have to be classified. Test data are not available.

Respiratory sensitization or skin sensitization: The product does not have to be classified. Test data are not available.

Germ cell mutagenicity: The product does not have to be classified. Test data are not available.

Carcinogenic properties: The product does not have to be classified. Test data are not available.

Reproductive toxicity: The product does not have to be classified. Test data are not available.

Single STOT exposure: Inhalation of vapors may cause irritation to the upper airways. The product does not have to be classified. Test data are not available.

Repeated STOT exposure: Aspiration hazard: The product does not have to be classified. Test data are not available.

Other toxicological effects: None known.

Section 12: Ecological Information

12.1. Toxicity: The product does not have to be classified. Test data are not available.

12.2. Persistence and degradability: Expected to be biodegradable. Test data are not available.

12.3. Bioaccumulative potential: No bioaccumulation expected. Test data are not available.

12.4. Mobility in soil: Test data are not available.

12.5. Results of PBT and vPvB assessment: The product does not contain any PBT or vPvB substances.

12.6. Other adverse effects: None known.

Section 13: Disposal considerations

13.1. Waste treatment methods

Do not discharge large quantities of concentrated spills and residue into drains. Contact the local authorities.

Absorbent/cloth contaminated with the product: EWC code: 15 02 03. Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02. Empty, cleansed packaging should be disposed of for recycling.





Section 14: Transport information

The product is not covered by the rules for transport of dangerous goods.

14.1. UN number – N/A

14.2. UN proper shipping name - N/A

14.3. Transport hazard class(es) - N/A

14.4. Packing group - N/A

14.5. Environmental hazards - N/A

14.6. Special precautions for user - N/A

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code – N/A

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Special provisions: None.

15.2. Chemical safety assessment: Chemical safety assessment has not been performed.

Section 16: Other Information

Abbreviation explanations: PBT: Persistent, Bioaccumulative and Toxic vPvB: Very Persistent and Very Bioaccumulative

STOT: Specific Target Organ Toxicity

Classification method: Calculation based on the hazards of the known components.

H-phrases: No H-phrases.

Training: A thorough knowledge of this safety data sheet should be a prerequisite condition.



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Other information:

This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

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