

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

Natural Chelator

1. Identification of the substance/mixture and company

Trade name: Natural Chelator
INCI: Phytic Acid, Aqua
REACH registration No. : Not registered
Utilization: Raw material for cosmetics, personal care
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.ellemental.com
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

According to Hazardous Product Regulations

2.1 Health Hazards

Acute toxicity (Oral) Category 4

Skin corrosion Category 1B

Hazard Symbol:



Signal Word: danger

2.2 Hazard Statement:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage

2.3 Precautionary Statements

Prevention: Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. Specific treatment (see on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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Other hazards: Special danger of slipping by leaking/spilling product.

3. Declaration of ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture

| | | | | | |
|-------------|-----------------|-----------------|---------------------|------------------|---------|
| Phytic acid | CAS No 83-083 | EC No 201-5086 | Acute Tox. 4 r H302 | SkinCorr IB/H314 | 48- 52% |
| Water | CAS No 7732-185 | EC No 231-791-2 | ---- | | 48- 52% |

4. First aid measures

4.1 Description of necessary first-aid measures

General information: Remove soiled or soaked clothing immediately

Inhalation: Ensure supply of fresh air. In the event of symptoms seek medical advice.

Skin Contact: In case of contact with skin wash off with soap and water. Summon a doctor immediately.

Eye contact: In case of contact with eyes rinse thoroughly with water. Summon a doctor immediately.

Ingestion: Thoroughly clean the mouth with water Do NOT induce vomiting. Call a physician immediately.

Personal Protection for First aid Responders: Do not inhale explosion and/or combustion gases, Self-contained breathing apparatus.

4.2 Most important symptoms/effects, acute and delayed

Symptoms: Causes burns. Symptoms may be delayed.

Hazards: No data available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire fighting measures

5.1 Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: Full water jet

Specific hazards arising from the chemical: In the event of fire the following can be released: - carbon dioxide, carbon monoxide Oxides of phosphorus Under certain conditions of combustion traces of other toxic substances cannot be excluded

5.2 Special protective equipment and precautions for firefighters

Special fire fighting procedures: No specific precautions.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

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Co-ordinate firefighting measures to the fine 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.
Special protective equipment for firefighters
Wear self-contained breathing apparatus

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/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

Advices on how to contain a spill

Bunding. Covering of drains.

Advices on how to clean up a spill

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

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

7. Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent are as well as aerosol and dust generation

Use local and general ventilation.

Use only in well-ventilated areas.

- handling of incompatible substances or mixtures

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No information available.

- keep away from

No information available.

Advice on general occupational hygiene

Wash hands after use.

Do not eat, drink and smoke in work area s.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

Protect against external exposure, such as:

Frost.

Maintaining of the integrity of the substance or mixture

Keep cool.

- specific designs for storage rooms or vessels

Recommended storage temperature: $\leq 10^{\circ}\text{C}$.

- packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

Cosmetics, personal care products.

8. Exposure controls / personal protection

8.1 Control Parameters

Occupational Exposure Limits

Observe national threshold limit values.

Biological Limit Values

Observe national threshold limit values.

Appropriate Engineering Controls

No data available.

8.2 Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: close-fitting protective goggles (e.g. closed goggles) or face protection

Hand Protection: Additional Information: The protective gloves to be worn must satisfy the specifications of Regulation (EU) 2016/425 and the resulting Standard EN374., Specific workplace situations must be considered separately.

Other: protective clothing

Respiratory Protection: in case of formation of vapors/aerosols: Short term: filter apparatus, combination filter A-P2

Hygiene measures: Remove soiled or soaked clothing immediately. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when working.

9. Physical and chemical properties

9.1 Appearance

Physical state: liquid

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Form: liquid
Color: Yellowish
Odor: Characteristic
Odor Threshold: not measured
pH: not determined
Freezing point: No data available.
Boiling Point: 100 °C
Flash Point: >100 °C
Evaporation Rate: not measured
Flammability (solid, gas): not relevant
Flammability Limit - Upper (%): not measured
Flammability Limit - Lower (%): not measured
Vapor pressure: No data available.
Vapor density (air=1): not measured
Density: not determined
Relative density: No data available.
Solubility in Water: No data available.
Solubility (other): not measured
Partition coefficient (n-octanol/water): not measured
Autoignition Temperature: not measured
Decomposition Temperature: not measured
Kinematic viscosity: No data available.
Dynamic viscosity: 11,5 mPa.s
Explosive properties: not measured
Oxidizing properties: No data available.
Dust Explosion Limit, Upper: not measured
Dust Explosion Limit, Lower: not measured
Minimum ignition temperature: not measured
Metal Corrosion: No data available.
Self Ignition Temperature: not measured

10. Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

See below "Conditions to avoid".

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

Hazardous combustion products: see section 5.

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11. Toxicological information

11.1 Information on likely routes of exposure

Information on toxicological effects

Test data are not available for the complete mixture.

Classification according to GHS (1272- 2006/ EC, CLP)

Acute toxicity: Harmful if swallowed.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance CAS No Exposure route ATE1 ,030

Phytic acid 83-86- 3 oral

Acute toxicity of components of the mixture

Name of substance CAS No Exposure
route

Endpoint Value Species 1,030

Phytic acid 83-86- 3 oral LD50 mouse

Skin corrosion/irritation

Causes severe skin burns and eyedamage.

Serious eye damage/eye irritation

Based on available data, theclassification criteria are not met.

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classifiedas a respiratory or skin sensrtiser.

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Based on available data, theclassification criteria are not met.

Carcinogenicity

Shall not be classified as carcinogenic .

Based on available data, theclassification criteria are not met.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Based on available data, theclassification criteria are not met.

Specific target organ toxicity - single exposure

Shall not be classifiedas a specific target organ toxicant (single exposure).

Based on available data, theclassification criteria are not met.

Specific target organ toxicity - repeated exposure

Shall not be classifiedas a specific target organ toxicant (repeated exposure).

Based on available data, theclassification criteria are not met.

12. Ecological information

12.1 Toxicity

Test data are not available for the complete mixture.

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Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Test data are not available for the complete mixture.

12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

Name of substance CAS No Log KOW

Phytic acid 83-86-3 -6.54

Mobility in soil

Test data are not available for the complete mixture.

12.4 Results of PBT and vPvB assessment

Test data are not available for the complete mixture.

12.5 Other adverse effects

Endocrine disrupting potential

Not Issued.

13. Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Dispose of contents/container to an authorized waste treatment facility.

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

It is a dangerous waste; only packages which are approved (e.g. acc. to ADR) may be used.

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.

14. Transport information

14.1 UN number 3265

14.2 UN proper shipping name: CORROSIVE LIQUID, ACIDIC. ORGANIC, NOS

Technical name (hazardous ingredients) Phytic acid

14.3 Transport hazard class(es): 8 corrosive substances

14.4 Packing group II

14.5 Environmental hazards

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

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Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

| | |
|----------------------|---|
| UN number | 3265 |
| Proper shipping name | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Class | 8 |
| Classification code | C3 |
| Packing group | II |
| Danger label(s) | 8 |



| | |
|-------------------------------|-----|
| Special provisions (SP) | 274 |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| Transport category (TC) | 2 |
| Tunnel restriction code (TRC) | E |
| Hazard identification No | 80 |
| Emergency Action Code | 2X |

International Maritime Dangerous Goods Code (IMDG)

| | |
|----------------------|---|
| UN number | 3265 |
| Proper shipping name | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Class | 8 |
| Marine pollutant | - |
| Packing group | II |
| Danger label(s) | 8 |



| | |
|--------------------------|-----------|
| Special provisions (SP) | 274 |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| EmS | F-A, S-B |
| Stowage category | B |
| Segregation group | 1 - Acids |

International Civil Aviation Organization (ICAO-IATA/DGR)

| | |
|----------------------|---|
| UN number | 3265 |
| Proper shipping name | Corrosive liquid, acidic, organic, n.o.s. |
| Class | 8 |
| Packing group | II |
| Danger label(s) | 8 |



| | |
|--------------------------|----|
| Special provisions (SP) | A3 |
| Excepted quantities (EQ) | E2 |

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15. Regulatory information

15.1 International regulations

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

Relevant provisions of the European Union (EU)

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list none of the ingredients are listed

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II none of the ingredients are listed

Regulation 156/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR) none of the ingredients are listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD) none of the ingredients are listed

Regulation 08/ 2013/EU on the marketing and use of explosives precursors none of the ingredients are listed

Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors none of the ingredients are listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

16. Additional information

16.1 List of relevant phrases (code and full text as stated in chapter 2 and 3)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

16.2 Abbreviations:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; INCI: International Nomenclature of Cosmetic Ingredients; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT -

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Persistent, Bioaccumulative and Toxic sub-stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-tative) Structure Activity Relationship; PNEC: Predicted No Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; STE: Short-term exposure; STEL: Short Term Exposure limit; STOT: Specific Target Organ Toxicity; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.