

Complement Technology, Inc.

4801 Troup Hwy, Suite 701

Tyler, Texas 75703, USA

Product: **C1**Catalog #: **A098**

Revision date: 06/9/2015 Ver 2.0

1. PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifiers**Product name : **Human Complement C1 Protein**Product Number: **A098**

Brand : CompTech

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Complement Technology, Inc. , 4801 Troup Hwy, Tyler, TX 75703 USA

Telephone: 1-903-581-8284

Web: www.ComplementTech.com**1.4 Emergency telephone number**Emergency Phone : 1-903-581-8284

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture:****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Skin irritation (Category 2), H315 – Benzamidine

Eye irritation (Category 2A), H319 - Benzamidine and EDTA

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements:

Pictogram



Signal word

Warning

Hazard statement(s)

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

Precautionary statement(s)

P261

Avoid breathing 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/ eye protection/ face

protection. P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P312. Call a POISON CENTER or doctor/ physician if you feel unwell.

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P321	Specific treatment (see supplemental first aid instructions on this label)
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – Human source material.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Synonyms:** C1 Complex, C1qrs Complex

EDTA, Edathamil, Edetic acid

Benzamidine, Benzamidine chloride

3.2 Mixtures/Hazardous components

Component:	CAS-No.	Concentration:
Sodium Acetate	127-09-3	0.4%
6-aminocaproic acid	60-32-2	0.7%
Benzamidine	1670-14-0	0.16%
EDTA	60-00-4	0.3%
Glycerol	56-81-5	40%

4. FIRST AID MEASURES**4.1 Description of first aid measures****If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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5.2 Special hazards arising from the substance or mixture

Carbon oxides. Nitrogen oxides. Hydrogen chloride gas.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information: No data available.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapours, mist or gas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Clean up and decontaminate all materials for disposal, as well as contaminated surfaces, with an effective decontamination method such as autoclaving, incineration, or chemical disinfection. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections For disposal see section 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling** For precautions see section 2.2.**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: -70 °C .

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Components with workplace control parameters**

Glycerol CAS-No. 56-81-5 Value: TWA

Control Parameters: 5 mg/m³

Basis: USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000

Remarks: Upper Respiratory Tract Irritation

8.2 Exposure controls**Appropriate engineering controls:** General industrial hygiene practice.**Personal protective equipment****Eye/face protection:** Use protective equipment for eyes.**Skin protection:** Handle with gloves.**Body Protection:** Wear impervious laboratory coat.**Respiratory protection:** Respiratory protection not required.

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Control of environmental exposure: Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

- a) Appearance Form: Aqueous clear solution
- b) Odour: no data available
- c) Odour Threshold: no data available
- d) pH: 5.4-5.6
- e) Melting point/freezing point: no data available
- f) Initial boiling point and boiling range: no data available
- g) Flash point: not applicable
- h) Evaporation rate: no data available
- i) Flammability (solid, gas): not applicable
- j) Upper/lower flammability or explosive limits: not applicable
- k) Vapour pressure: no data available
- l) Vapour density: no data available
- m) Relative density: no data available
- n) Water solubility: no data available
- o) Partition coefficient: n-octanol/water: no data available
- p) Auto-ignition temperature: no data available
- q) Decomposition temperature: no data available
- r) Viscosity: no data available
- s) Explosive properties: no explosion hazard
- t) Oxidizing properties: no data available

9.2 Other safety information: no data available

10. STABILITY AND REACTIVITY**10.1 Reactivity:** no data available**10.2 Chemical stability:** Stable under recommended storage conditions.**10.3 Possibility of hazardous reactions:** no data available**10.4 Conditions to avoid:** no data available**10.5 Incompatible materials:** Strong oxidizing agents**10.6 Hazardous decomposition products:** Carbon oxides. Nitrogen oxides. Hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity** no data available**Inhalation:** no data available**Dermal:** no data available**Skin corrosion/irritation:** no data available**Serious eye damage/eye irritation:** no data available

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Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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.

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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information: RTECS: Not available

Prolonged or repeated exposure can cause nausea, headache, vomiting.

Kidney – Irregularities – based on human evidence (Glycerol)

12. ECOLOGICAL INFORMATION

12.1 Toxicity: no data available

12.2 Persistence and degradability: no data available

12.3 Bioaccumulative potential: no data available

12.4 Mobility in soil: no data available

12.5 Results of PBT and vPvB assessment:

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects: no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

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No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

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.

SARA 311/312 Hazards

Chronic Health Hazard (Glycerol, 6-aminocaproic acid).

Acute Health Hazard (EDTA, Benzamidine)

Massachusetts Right To Know Components

EDTA CAS-No. 60-00-4 Revision Date: 2007-03-01

Glycerol CAS-No. 56-81-5 Revision Date: 2007-03-01

Pennsylvania Right To Know Components

EDTA CAS-No. 60-00-4 Revision Date: 2007-03-01

Sodium acetate CAS-No. 127-09-3 Revision Date: None

Benzamidine CAS-No. 1670-14-0 Revision Date: None

6-Aminocaproic acid CAS-No. 60-32-2 Revision Date: None

Water CAS-No. 7732-18-5 Revision Date: None

Glycerol CAS-No. 56-81-5 Revision Date: 2007-03-01

New Jersey Right To Know Components

EDTA CAS-No. 60-00-4 Revision Date: 2007-03-01

Sodium acetate CAS-No. 127-09-3 Revision Date: None

Benzamidine CAS-No. 1670-14-0 Revision Date: None

6-Aminocaproic acid CAS-No. 60-32-2 Revision Date: None

Water CAS-No. 7732-18-5 Revision Date: None

Glycerol CAS-No. 56-81-5 Revision Date: 2007-03-01

California Prop. 65 Components

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

16. OTHER INFORMATION

HMIS Rating

Health hazard: 2

Chronic Health Hazard: *

Flammability: 0

Physical Hazard 0

NFPA Rating

Health hazard: 2

Fire Hazard: 0

Reactivity Hazard: 0

The information given above is believed to be correct but is not necessarily all inclusive and should be used only as a guide. Complement Technology, Inc. shall not be held liable for any damage resulting from the handling or from contact with this product.