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SECTION 1: COMPANY AND PRODUCT INFORMATION

1.1 Product identifiers

Product name : CAPSO Sodium Salt
Product code : 40330012
CAS number : 102601-34-3
Synonyms : 3-(Cyclohexylamino)-2-hydroxy-1-propanesulfonic acid sodium salt

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

Address : Genelix International Inc, dba bioWORLD
4150 Tuller Rd. Suite 228
Dublin, OH 43017

Email : tech@bio-world.com

Phone : 614-792-8680, Toll free: 1-888-bio-PLUS

Fax : 614-792-8685

1.4 Emergency telephone number

Emergency phone : 1-888-bio-PLUS

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Serious eye damage (Category 1), H318.

2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious eye damage (Category 1), H318.

2.3 Label elements and precautionary statements

Pictogram : 

Signal word : Danger

Hazard statement(s) : H318 Causes serious eye damage.

Precautionary statement(s) : P280 Wear protective gloves/ eye protection/ face protection.
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/ physician.

2.4 Hazards not otherwise classified (HNOC) or not covered by GHS

Not available

2.5 NFPA Rating

Health hazard : 2
Fire hazard : 0
Reactivity hazard : 0

2.6 HMIS Rating

Health hazard : 2
Chronic health hazard : 0
Reactivity hazard : 0
Flammability : 0
Physical hazard : 0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

| Substance | CAS# | EC# | Concentration |
|---|-------------|---------------|---------------|
| CAPSO sodium salt M.F: C ₉ H ₁₈ NNaO ₄ S M.W: 259.30 g/mol | 102601-34-3 | Not available | 100% |

3.2 Hazardous components & classification

Eye Dam. 1; H318

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

In case of inhalation

If inhaled, move person to fresh air and monitor breathing. If not breathing, give artificial ventilation. Consult a physician if symptoms are severe or persistent.

In case of skin contact

Immediately wash with excess soap and water. If spilled on clothing, remove all affected clothing. Consult a physician if symptoms are severe or persistent.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

In case of ingestion

Only induce vomiting if recommended by medical personnel. If subject is unconscious, do not give anything by mouth. If conscious, rinse mouth with water. Consult a physician if symptoms are severe or persistent.

4.2 Most important symptoms and effects, both acute and delayed

All known important symptoms are described in Section 2 and/or Section 11. No other important symptoms to report.

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment indicated. Provide treatment in accordance with exhibited systems.

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide are suitable

5.2 Unsuitable extinguishing media

Not available

5.3 Special hazards arising from the substance

Carbon oxides, nitrogen oxides (NO_x), Sulphur oxides.

5.4 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8

6.2 Environmental precautions

Prevent product from entering public sewers and waterways.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

For proper disposal see section 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 13: Non combustible solids

Incompatible materials : Strong oxidizing agents are incompatible with this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Personal protective equipment

| | |
|-----------------------------------|---|
| Eye/face protection | : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). |
| Skin protection | : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. |
| Body protection | : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Respiratory protection | : Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| Control of environmental exposure | : Do not let product enter drains. |
| General hygiene considerations | : Handle in accordance with good industrial hygiene and safety practice. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | | |
|----|---|---|
| a) | Appearance | : Not available |
| b) | Physical states | : Solid |
| c) | Odor | : Not available |
| d) | Odor threshold | : Not available |
| e) | Melting point | : 213 - 240 °C (415 - 464 °F) - OECD Test Guideline 102 - Decomposes on heating |
| f) | Boiling point range | : 601.2 °C (1,114.2 °F) - Decomposes on heating |
| g) | pH | : Not available |
| h) | Density | : Not available |
| i) | Flash point | : Not available |
| j) | Evaporation rate | : Not available |
| k) | Flammability | : The product is not flammable. - Flammability (solids) |
| l) | Upper/lower flammability or explosive limits: | : Not available |
| m) | Vapor pressure | : Not available |
| n) | Vapor density | : Not available |
| o) | Relative density | : 1.3695 g/cm ³ at 20 °C (68 °F) |

- p) Water solubility : 302.7 g/l at 20 °C (68 °F) - OECD Test Guideline 105
- q) Partition coefficient:n-octanol/water : log Pow: < -3.80 at 20 °C (68 °F)
- r) Autoignition temperature : The substance or mixture is not classified as pyrophoric
- s) Decomposition temperature : 210 °C (410 °F) - Decomposes on heating
- t) Kinematic viscosity : Not available
- u) Explosive properties : Not available
- v) Oxidizing properties : The substance or mixture is not classified as oxidizing.
- w) Solubility in other solvents : Not available
- x) Surface tension : Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity is known. Non-reactive under normal use.

10.2 Chemical stability

Product is stable when stored as recommended.

10.3 Stability note(s)

No special or unusual instability known.

10.4 Polymerization

No known polymerization possible.

10.5 Possibility of hazardous reactions

No known hazardous reactions are possible.

10.6 Incompatible materials

Strong oxidizing agents are incompatible with this product.

10.7 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

LD50 Oral : Rat - female - >2,000 mg/kg
(OECD Test Guideline 423)

LD50 Dermal : No toxicity data available.

LC50 Inhalation : No toxicity data available.

11.2 Skin corrosion/irritation

EPISKEN Human skin model test - 15 mins - no skin irritation
(OECD Test Guideline 439)

Skin - reconstructed human epidermis (RhE) - 4 hrs - no skin irritation
(OECD Test Guideline 431)

11.3 Serious eye damage/eye irritation

Bovine cornea - 4 hrs - causes serious eye damage
(OECD Test Guideline 437)

11.4 Respiratory or skin sensitization

Local lymph node assay - mouse - negative
(OECD Test Guideline 429)

11.5 Germ cell mutagenicity

Ames test - E.coli/Salmonella typhimurium - with and without metabolic activation - negative
(OECD Test Guideline 471)

11.6 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.

11.7 Reproductive toxicity

No reproductive toxicity data available.

11.8 Specific target organ toxicity – single exposure

No specific organ toxicity data available.

11.9 Specific target organ toxicity – repeated exposure

No specific organ toxicity data available.

11.10 Aspiration hazard

No aspiration hazard data available.

11.11 Additional Information

RTECS: No RTECS data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No ecological toxicity data available.

12.2 Aquatic toxicity

Static test EC50 - Daphnia magna (water flea) - 48 hrs - >100 mg/l
(OECD Test Guideline 202)

Static test EC50 - Pseudokirchneriella subcapitata (green algae) - 72 hrs - >100 mg/l
(OECD Test Guideline 201)

NOEC - Daphnia magna (water flea) - 48 days - >100 mg/l

12.3 Persistence and degradability

Aerobic - 29 days - 2.4% - not readily biodegradable
(OECD Test Guideline 301B)

12.4 Bioaccumulative potential

No bioaccumulation data available.

12.5 Mobility in soil

No soil mobility data available.

12.6 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment is not required/was not conducted.

12.7 Other adverse effect

No other adverse effect data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Packaging

Dispose of as unused product.

13.3 Recommendation

Disposal must be made according to official regulations.

SECTION 14: TRANSPORTATION INFORMATION

14.1 DOT (US)

Not dangerous goods

14.2 IMDG

Not dangerous goods

14.3 IATA

Not dangerous goods

SECTION 15: REGULATORY INFORMATION

15.1 SARA

SARA 302 Components

SARA 302: This product and components are not 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: Acute Health Hazard (CAPSO sodium salt CAS-No. 102601-34-3)

15.2 Clean water act (CWA)

No chemicals are present in this product that are subject to regulation under the Clean Water Act.

15.3 Right to know components

| | |
|--------------------------------------|---|
| Massachusetts | : No chemicals are present which require disclosure under the Massachusetts Right to Know Act. |
| Pennsylvania | : No chemicals are present which require disclosure under the Pennsylvania Right to Know Act. |
| New Jersey | : No chemicals are present which require disclosure under the New Jersey Right to Know Act. |
| California proposition 65 components | : This product contains no chemicals which are known to the State of California to cause cancer, or birth defects or other reproductive harm. |

SECTION 16: OTHER INFORMATION

16.1 Disclaimer

This product is offered by bioWORLD for research, laboratory or further manufacturing use. Not for human use or consumption. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall bio-WORLD.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if bio-WORLD.com has been advised of the possibility of such damages.

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16.2 Preparation Information

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