

## CAPS

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** CAPS  
**Product Code:** TMB 022  
**CAS#:** 1135-40-6  
**Synonym:** CAPS  
**Chemical Name:** (3-[Cyclohexylamino]-1-Propanesulphonic Acid)  
**Chemical Formula:** C<sub>9</sub>H<sub>19</sub>NO<sub>3</sub>S  
**Formula Weight:** 221.32

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Composition:**  
**Name:** CAPS  
**Toxicological Data on Ingredients:** Not available

### SECTION 3: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008**  
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.  
**Potential Acute Health Effects:** Not available.  
**Potential Chronic Health Effects:** Not available.  
**Carcinogenic Effects:** Not available.  
**Mutagenic Effects:** Not available.  
**Teratogenic Effects:** Not available.  
**Developmental Toxicity:** Not Available

### SECTION 4: FIRST AID MEASURES

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.  
**Skin Contact:** Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.  
**Serious Skin Contact:** Not available.  
**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.  
**Serious Inhalation:** Not Available.  
**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.  
**Serious Ingestion:** Not available.

### SECTION 5: FIRE FIGHTING MEASURES

**Suitable extinguishing media**  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
**Special hazards arising from the substance or mixture**  
Carbon oxides



Nitrogen oxides (NOx)

Sulfur oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions and emergency procedures**

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

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

**Storage conditions:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Discard one month after opening.

**Storage class:**

Storage class (TRGS 510): 13: Non Combustible Solids

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eye/face protection**

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.

**Respiratory protection**

Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical state and appearance	:	Powder
Odor	:	Not available
Color	:	White
Molecular Weight	:	Not available
pH	:	Not available
Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available
Vapor Density	:	Not available



Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

### SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** The product is chemically stable under standard ambient conditions (room temperature).

**Instability Temperature:** Not available

**Conditions of Instability:** Not available

**Incompatibility with various substances:** Not available

**Special Remarks on Corrosivity:** Non corrosive.

**Special Remarks on Reactivity:** Not available

**Possibility of hazardous reactions** Strong oxidizing agents

**Hazardous decomposition products:** In case of fire.

### SECTION 11: TOXICOLOGICAL INFORMATION.

**Acute Toxicity:** Not available.

**Inhalation:** No data available

**Dermal:** No data available

**Routes of Entry:** Inhalation, Ingestion

**Toxicity to Animals:**

LD50 Oral - Rat - female - > 2.000 mg/kg

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

LC50 Inhalation - Not available

**Chronic Effects on Humans:** Not available

**Other Toxic Effects on Humans:** Not available

**Special Remarks on Toxicity to Animals:** Not available

**Special Remarks on other Toxic Effects on Humans:** Not available

**Potential Health Effects:** Not available

### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:**

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - >= 100 mg/l - 48 h

Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h

**BOD and COD:** Not available

**Products of Biodegradation:**

Biodegradability aerobic - Exposure time 28 d  
Result: 4 % - Not biodegradable.

**Toxicity of the Products of Biodegradation:** Not Available.

**Special Remarks on the Products of Biodegradation:** Not Available

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:**



Waste must be disposed of in accordance with federal, state and local environmental control regulations.

#### SECTION 14: TRANSPORT INFORMATION

**UN number:**

**ADR/RID:**

**IMDG:**

**IATA:**

**UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**Transport hazard class(es):**

ADR/RID:

IMDG:

IATA:

**Packaging group:**

ADR/RID:

IMDG:

IATA:

**Environmental hazards:**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

#### SECTION 15: REGULATORY INFORMATION

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

#### SECTION 16: OTHER INFORMATION

**References: Full text of H AND R-Statements:** Not available

**Other Special Considerations:** Not available

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