1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: CCCP
Catalog No.: HY-100941
CAS No.: 555-60-2

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: MedChemExpress USA
Tel: 609-228-6898
Fax: 609-228-5909
E-mail: sales@medchemexpress.com

1.4 Emergency telephone number

Emergency Phone #: 609-228-6898

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
- Acute toxicity, Oral (Category 3), H301
- Acute toxicity, Inhalation (Category 3), H331
- Acute toxicity, Dermal (Category 3), H311
- Skin irritation (Category 2), H315
- Eye irritation (Category 2A), H319
- Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

2.2 GHS Label elements, including precautionary statements

Signal word: Danger

Hazard statement(s)
- H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled
- 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.
- P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection / face protection.
P280 Wear protective gloves / protective clothing.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor / physician if you feel unwell.
P304 + P340 + P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor / physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice / attention.
P337 + P313 If eye irritation persists: Get medical advice / attention.
P361 Remove / Take off immediately all contaminated clothing.
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 Other hazards
None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms:
Carbonyl cyanide 3-chlorophenylhydrazone; Carbonyl Cyanide m-Chlorophenylhydrazone

Formula:
C₉H₅ClN₄

Molecular Weight: 204.62

CAS No. : 555-60-2

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact
Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water. Separate eyelids with fingers to ensure adequate flushing. Promptly call a physician.

Skin contact
Rinse skin thoroughly with large amounts of water. Remove contaminated clothing and shoes and call a physician.

Inhalation
Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

Ingestion
Wash out mouth with water; Do NOT induce vomiting; call a physician.

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).

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, dry chemical, foam, and carbon dioxide fire extinguisher.

5.2 Special hazards arising from the substance or mixture
During combustion, may emit irritant fumes.

5.3 Advice for firefighters
Wear self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use full personal protective equipment. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Refer to protective measures listed in sections 8.

6.2 Environmental precautions
Try to prevent further leakage or spillage. Keep the product away from drains or water courses.

6.3 Methods and materials for containment and cleaning up
Absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders); Decontaminate surfaces and equipment by scrubbing with alcohol; Dispose of contaminated material according to Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.

Recommended storage temperature:
- Powder: -20°C 3 years
- 4°C 2 years
- In solvent: -80°C 6 months
- -20°C 1 month
Shipping at room temperature if less than 2 weeks.

7.3 Specific end use(s)
No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters
This product contains no substances with occupational exposure limit values.

8.2 Exposure controls
Engineering controls
Ensure adequate ventilation. Provide accessible safety shower and eye wash station.

Personal protective equipment
- Eye protection: Safety goggles with side-shields.
- Hand protection: Protective gloves.
- Skin and body protection: Impervious clothing.
- Respiratory protection: Suitable respirator.
- Environmental exposure controls
Keep the product away from drains, water courses or the soil. Clean spillages in a safe way as soon as possible.
9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- **Appearance**: Light yellow to yellow (Solid)
- **Odor**: No data available
- **Odor threshold**: No data available
- **pH**: No data available
- **Melting/freezing point**: No data available
- **Boiling point/range**: No data available
- **Flash point**: No data available
- **Evaporation rate**: No data available
- **Flammability (solid, gas)**: No data available
- **Upper/lower flammability or explosive limits**: No data available
- **Vapor pressure**: No data available
- **Vapor density**: No data available
- **Relative density**: No data available
- **Water Solubility**: No data available
- **Partition coefficient**: No data available
- **Auto-ignition temperature**: No data available
- **Decomposition temperature**: No data available
- **Viscosity**: No data available
- **Explosive properties**: No data available
- **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 acids/alkalis, strong oxidising/reducing agents.

10.6 Hazardous decomposition products

- Under fire conditions, may decompose and emit toxic fumes.
  Other decomposition products - no data available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- **Acute toxicity**: Classified based on available data. For more details, see section 2

  **Skin corrosion/irritation**: 

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Classified based on available data. For more details, see section 2

**Serious eye damage/irritation**
Classified based on available data. For more details, see section 2

**Respiratory or skin sensitization**
Classified based on available data. For more details, see section 2

**Germ cell mutagenicity**
Classified based on available data. For more details, see section 2

**Carcinogenicity**
IARC: No component of this product present at a level equal to or greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.
NTP: No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed carcinogen by NTP.
OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA.

**Reproductive toxicity**
Classified based on available data. For more details, see section 2

**Specific target organ toxicity - single exposure**
Classified based on available data. For more details, see section 2

**Specific target organ toxicity - repeated exposure**
Classified based on available data. For more details, see section 2

**Aspiration hazard**
Classified based on available data. For more details, see section 2

**Additional information**
RTECS No.: FG5600000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
This information is based on our current knowledge. However the chemical, physical, and toxicological properties have not been completely investigated.

### 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 unavailable as chemical safety assessment not required or not conducted.

**12.6 Other adverse effects**
No data available.

### 13. DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**

**Product**
Dispose substance in accordance with prevailing country, federal, state and local regulations.
**14. TRANSPORT INFORMATION**

**DOT (US)**
UN number: 2811  
Class: 6.1  
Packing group: III  
Proper shipping name: Toxic solids, organic, n.o.s. (3-Aminopyridine-2-carboxaldehyde thiosemicarbazone)  
Reportable Quantity (RQ):  
Poison Inhalation Hazard: No

**IMDG**
UN number: 2811  
Class: 6.1  
Packing group: III  
EMS-No: F-A, S-A  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (3-Aminopyridine-2-carboxaldehyde thiosemicarbazone)

**IATA**
UN number: 2811  
Class: 6.1  
Packing group: III  
Proper shipping name: Toxic solid, organic, n.o.s. (3-Aminopyridine-2-carboxaldehyde thiosemicarbazone)

**15. REGULATORY INFORMATION**

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

**SARA 313 Components**
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

**SARA 311/312 Hazards**
Acute Health Hazard, Chronic Health Hazard

**16. OTHER INFORMATION**

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Caution: Product has not been fully validated for medical applications. For research use only.

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