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# SAFETY DATA SHEET

## 1. Identification

Product identifier: AMMONIUM CHLORIDE

Other means of identification

**CAS No.:** 12125-02-9

Recommended use and restriction on use Recommended use: Not available. Restrictions on use: Not known.

# Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Quality Environmental Containers, Inc. Address: 607 Industrial Park Road • PO Box 1160

Beaver, WV 25813

Telephone:

Customer Service: 800-255-3950

e-mail: info@qecusa.com

## **Emergency telephone number:**

Chemtrec: 800-424-9300

### 2. Hazard(s) identification

#### **Hazard Classification**

#### **Health Hazards**

Acute toxicity (Oral) Category 4
Serious Eye Damage/Eye Irritation Category 2A

## **Label Elements**

## **Hazard Symbol:**



Signal Word: Warning

Hazard Statement: Harmful if swallowed.

Causes serious eye irritation.

Precautionary Statement

Prevention: 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 IN EYES: Rinse cautiously with water for several minutes. Remove



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contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a POISON

CENTER or doctor/physician if you feel unwell. Rinse mouth.

**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.

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### **Substances**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
AMMONIUM CHLORIDE		12125-02-9	99 - 100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

**Ingestion:** Rinse mouth. Get medical attention if symptoms occur.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin Contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation

persists after washing.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention if symptoms persist.

Most important symptoms/effects, acute and delayed

**Symptoms:** Harmful if swallowed. Causes serious eye irritation.

Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. Symptoms may be delayed.

# 5. Fire-fighting measures

**General Fire Hazards:** In case of fire and/or explosion do not breathe fumes.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters



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Special fire fighting procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning

up:

Sweep up and place in a clearly labeled container for chemical waste.

Clean surface thoroughly to remove residual contamination.

**Notification Procedures:** Inform authorities if large amounts are involved. Prevent entry into

waterways, sewer, basements or confined areas.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling:

Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Wash thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment.

Conditions for safe storage, including any incompatibilities:

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

### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source
AMMONIUM CHLORIDE - Fume.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
	STEL	20 mg/m3	US. ACGIH Threshold Limit Values (2011)
	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	20 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	20 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

**Appropriate Engineering** Controls

No data available.



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### Individual protection measures, such as personal protective equipment

**General information:** Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the

immediate work area.

**Eye/face protection:** Use tight fitting goggles if dust is generated.

Skin Protection

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

Other: Wear suitable protective clothing.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below

recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with a high

efficiency particulate filter.

Hygiene measures: Provide eyewash station and safety shower. Always observe good personal

hygiene measures, such as washing after handling the material and before

eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Physical state: Solid

Form: Granular powder

Color: White Odor: Odorless

Odor threshold: No data available.

pH: 5.5 (25 °C) 1% Aqueous solution

Melting point/freezing point:  $> 300 \, ^{\circ}\text{C}$ Initial boiling point and boiling range:  $520 \, ^{\circ}\text{C}$ 

Flash Point:

Evaporation rate:

Flammability (solid, gas):

Not applicable

No data available.

Noncombustible Solid

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

1.53 (25 °C)

Solubility(ies)

Solubility in water: Completely Soluble
Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.

**Decomposition temperature:** 338 °C



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Viscosity: No data available.

Other information

Molecular weight: 53.5 g/mol (CIH4N)

### 10. Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Material is stable under normal conditions.

**Possibility of Hazardous** 

Reactions:

Hazardous polymerization does not occur.

**Conditions to Avoid:** Excessive heat. Moisture.

Incompatible Materials: Strong oxidizing agents. Strong acids. Nitrates. Potassium. Copper.

Halogens.

**Hazardous Decomposition** 

**Products:** 

ammonia Nitrogen Oxides hydrogen chloride

## 11. Toxicological information

Information on likely routes of exposure

**Ingestion:** Harmful if swallowed.

**Inhalation:** May cause irritation to the respiratory system.

**Skin Contact:** May cause irritation.

**Eye contact:** Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** LD 50 (Rat): 1,650 mg/kg

Dermal

**Product:** No data available.

Inhalation

**Product:** No data available.

Repeated Dose Toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** May cause skin irritation.

Serious Eye Damage/Eye Irritation

**Product:** Causes serious eye irritation.

Respiratory or Skin Sensitization

**Product:** Not a skin sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.



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# IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

Reproductive Toxicity

**Product:** No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure
Product: None known.

Specific Target Organ Toxicity - Repeated Exposure

**Product:** None known.

**Aspiration Hazard** 

Product: Not classified

Other Effects: None known.

# 12. Ecological information

## **Ecotoxicity:**

## Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Aquatic Invertebrates

**Product:** No data available.

### Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

# Persistence and Degradability

Biodegradation

**Product:** Expected to be readily biodegradable.

**BOD/COD Ratio** 

**Product:** No data available.

# **Bioaccumulative Potential**

**Bioconcentration Factor (BCF)** 



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Product:	No data available on bioaccumulation.		
Partition Coefficient n-octange Product:	ol / water (log Kow) No data available.		
Mobility in Soil:	No data available.		
Other Adverse Effects:	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
13. Disposal considerations			
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.		
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.		
14. Transport information			
DOT Not regulated.			
IMDG Not regulated.			
IATA			
Not regulated.			
15. Regulatory information			
US Federal Regulations  TSCA Section 12(b) Export Notif US. OSHA Specifically Regular None present or none present	ted Substances (29 CFR 1910.1001-1050)		
CERCLA Hazardous Substanc AMMONIUM CHLORIDE	e List (40 CFR 302.4): Reportable quantity: 5000 lbs.		
Superfund Amendments and F	Reauthorization Act of 1986 (SARA)		
Hazard categories			
X Acute (Immediate) Ch	ronic (Delayed) Fire Reactive Pressure Generating		
SARA 302 Extremely Hazar None present or non	rdous Substance ne present in regulated quantities.		
SARA 304 Emergency Rele Chemical Identity AMMONIUM CHLORIDE	ease Notification RQ 5000 lbs.		



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### SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

AMMONIUM CHLORIDE 500 lbs

#### SARA 313 (TRI Reporting)

**Chemical Identity** 

Reporting Reporting threshold for threshold for manufacturing and other users processing

AMMONIUM CHLORIDE 10000 lbs 25000 lbs.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

AMMONIUM CHLORIDE Reportable quantity: 5000 lbs.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

#### US. New Jersey Worker and Community Right-to-Know Act

AMMONIUM CHLORIDE Listed

#### **US. Massachusetts RTK - Substance List**

AMMONIUM CHLORIDE Listed

### US. Pennsylvania RTK - Hazardous Substances

AMMONIUM CHLORIDE Listed

#### **US. Rhode Island RTK**

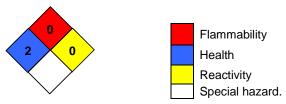
AMMONIUM CHLORIDE Listed

### **Inventory Status:**

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory EINECS, ELINCS or NLP: On or in compliance with the inventory Japan (ENCS) List: On or in compliance with the inventory China Inv. Existing Chemical Substances: Not in compliance with the inventory. Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory Canada NDSL Inventory: Not in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory US TSCA Inventory: On or in compliance with the inventory New Zealand Inventory of Chemicals: On or in compliance with the inventory Japan ISHL Listing: On or in compliance with the inventory Japan Pharmacopoeia Listing: Not in compliance with the inventory.

# 16.Other information, including date of preparation or last revision

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe



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**Issue Date:** 02-23-2015

Revision Date: No data available.

Version #: 2.0

Further Information: No data available.

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