

Material Safety Data Sheets (MSDS)

Ammonium Carbonate

Identification of Product

Chemical Code: CHE-A25

Chemical Name: Ammonium Carbonate

Chemical Grade: AR

Chemical Formula: $\text{CH}_6\text{N}_2\text{O}_3$

Chemical Weight: 96.09 g/mol

CAS No: 506-87-6

Chemical Synonyms: Hartshorn salt

Hazards Identification

REACH No: No Data Available

Signal Word: Warning

Supplemental Hazard Information:

Additional Hazard Information: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



Hazards statements

H302 - Harmful if swallowed.

Precautionary statements

P301 + P312 + P330 - IF SWALLOWED: Call a Poison center/doctor if you feel unwell. Rinse mouth.

Composition of Chemical

Chemical Formula: $\text{CH}_8\text{N}_2\text{O}_3$

EC No 1272/2008: No Data Available

First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If: Inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

If: Skin Contact: Wash off with soap and plenty of water. Consult a physician.

If: Eye Contact: Flush eyes with water as a precaution.

If: Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Important Symptoms: The most important known symptoms and effects are described in the labeling section.

Immediate Medical Attention: No Data Available

Firefighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or Carbon Dioxide.

Hazards Arising: No Data Available

Advice for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Info for Firefighting: No Data Available

Accidental Release Measures

Personal Precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental Precautions: Do not let product enter drains.

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

Handling and Storage

Personal Precautions: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust

ventilation at places where dust is formed.

Environmental Precautions: Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Air sensitive.

Exposure Controls | Personal Protection

Derived No Effect Level (DNEL)

Workers | Application Area | Exposure Routes | Health Effect | Value

No Data Available

Consumers | Application Area | Exposure Routes | Health Effect | Value

No Data Available

Predicted No Effect Concentration (PNEC)

No Data Available

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

Eye/Face Protection: Safety glasses with side-shields conforming to EN 166. 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 gloves 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm.

Break through time: 480 min.

Material tested: Dermatril®

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min.

Material tested: Dermatril®

Data source: KCL GmbH, D-36124, Test method: EN 374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Physical and Chemical Properties

Appearance: Colourless, hard, translucent, crystalline masses or White cubes

Odour: Ammonia odour

Odour Threshold: No Data Available

pH: No Data Available

Melting Point: Melting point/range: 58 °C

Boiling Point: No Data Available

Flash Point: No Data Available

Evaporation: No Data Available

Flammability: No Data Available

Upper/Lower Flammability or Explosive Limits: No Data Available

Vapour pressure: No Data Available

Vapour density: No Data Available

Relative density: No Data Available

Water solubility: Slightly soluble

Partition Coefficient: log Pow: 0,184

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

Other Safety Info: No Data Available

Stability and Reactivity

Reactivity: No Data Available

Chemical Stability: Stable under recommended storage conditions

Possibility of hazardous reactions: No Data Available

Conditions to Avoid: No Data Available

Incompatible Materials: Strong acids

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions - Carbon Oxides, Nitrogen Oxides (NOx)

Other decomposition products - No data available

Toxicological Information

Acute Toxicity: LD50 Oral - Rat - male and female - 2.150 mg/kg (OECD Test Guideline 401)

LD50 Oral - Rat - female - 1.800 mg/kg (OECD Test Guideline 401)

LD50 Dermal - Rat - > 2.000 mg/kg (OECD Test Guideline 402)

LD50 Intravenous - Mouse - 96 mg/kg

Remarks: Lungs, Thorax, or Respiration: Respiratory stimulation. Behavioral: Convulsions or effect on seizure threshold

Skin Corrosion/Irritation: Skin - in vitro assay

Result: No skin irritation (OECD Test Guideline 439)

Serious Eye damage | Eye Irritation: Eyes - Rabbit

Result: No eye irritation (OECD Test Guideline 405)

Cell Mutagenicity: Laboratory experiments have shown mutagenic effects

Ames test - Salmonella typhimurium

Result: negative

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.

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

Ecological Information

Ecological Toxicity: Toxicity to fish: LC50 - Fish - 119,46 mg/l - 96 h Remarks: Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates:

LC50 - Daphnia magna (Water flea) - 324,9 mg/l - 48 h

Toxicity to algae: static test EC50 - Pseudokirchneriella subcapitata (green algae) - 252,92 mg/l - 72 h

static test NOEC - Pseudokirchneriella subcapitata (green algae) - 50 mg/l - 72

Ecological Persistence and degradability: No Data Available

Bioaccumulative Potential: No Data Available

Mobility in Soil: No Data Available

Results of PBT and vPvB Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other Adverse Effect: No Data Available

Disposal Considerations

Waste Treatment Methods: Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

Transport Information

UN Number: ADR/RID: -

IMDG: -

IATA: -

UN Shipping Hazard: ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport Hazard Class: ADR/RID: -

IMDG: -

IATA: -

Packaging Group: ADR/RID: -

IMDG: -

IATA: -

Environmental Hazards: ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Special Precautions: No Data Available

Regulatory Information

Safety, Health and environmental regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment: For this product a chemical safety assessment was not carried out.

Additional Info: RTECS: BP1925000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Disclaimer

The information stated above is considered to be correct, but does not claim to be inclusive and shall only be used as a guideline. The information provided by this document is confirmed by our continuous updating of knowledge and adheres to the products appropriate safety precautions. It does not represent any guarantee of the product's properties. RLS Chemicals and its Associates shall not be held accountable for any damage's consequent of handling the above product.
