

tri -AMMONIUM CITRATE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: tri -AMMONIUM CITRATE
Product Code: 5132
CAS#: 3458-72-8
Synonym: Not Available
Chemical Formula: $C_6H_{17}N_3O_7$
Formula Weight: 243.22

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Name: tri -Ammonium citrate
Chemical Formula: $C_6H_{17}N_3O_7$
Molecular Formula: 243.22

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Skin irritation (Category 2), H315
Eye irritation (Category 2), H319
Specific target organ toxicity - single exposure (Category 3), H335
Other hazards - None

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.
Serious Skin Contact: Not available
Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration
Serious Inhalation: Not Available
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water
Serious Ingestion: Not available

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media: Special powder against metal fire Dry sand Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides (NO_x)
Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures: Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.



Methods and materials for containment and cleaning up: Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations.

SECTION 7: HANDLING AND STORAGE

Precautions: Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition. No smoking. Take measures to prevent the buildup of electrostatic charge.
Storage conditions: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store in original container. Do not store near combustible materials. Keep in a cool place away from acids. Keep in a cool place away from bases. Keep in a cool place away from oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection: Safety glasses with side-shields conforming to EN166. 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.
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).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Not available
Odor	:	Not available
Taste	:	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: Stable under recommended storage conditions
Instability Temperature: Not available
Conditions of Instability: Stable under recommended storage conditions
Incompatibility with various substances: Strong oxidizing agents



Special Remarks on Reactivity: Not available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: No data available

Skin corrosion/irritation: Not available

Serious eye damage/eye irritation: Not available

Respiratory or skin sensitization: Not available

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: Not available

Specific target organ toxicity - single exposure: Not available

Specific target organ toxicity - repeated exposure: Not available

Aspiration hazard: Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: No data available

Persistence and degradability: Not available

Bioaccumulative potential: Not available

Mobility in soil: 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: Not available

Chemical Safety Assessment: Not available

SECTION 16: OTHER INFORMATION

References: Not available

Other Special Considerations: Not available



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