

Ammonium Chloride

Compound	% w/w
Ammonium Chloride	97 min
Typical Nitrogen Content	26% w/w
Appearance	White solid of variable particle size
Odour	Acrid
Flammability	Not flammable
Explosive Properties	Ammonium Chloride is not explosive
Solubility	Soluble in water
Contaminants	Less than 3%
Iso-Octanol	Solvent used in extraction of titanates – volatilises on exposure to atmosphere
Iso-Octyl Titanate	Residue of primary product of which this is a co-product. Innocuous – used as a pigment – typically in toothpaste
Use As Fertiliser	Ammonium Chloride is an excellent source of slow-release Nitrogen. It is widely used as such in the Third World, but is less common in USA and Europe, mainly due to its Nitrogen content being significantly lower than that of Urea or Ammonium Nitrate.

Stability – Reactivity

Stability Stable under normal conditions. Hazardous polymerisation will not occur

Hazardous decomposition products Thermal decomposition may produce white fumes of ammonium chloride, toxic fumes of hydrogen chloride, toxic oxides of nitrogen and carbon monoxide and/or carbon dioxide

Handling – Storage

Storage conditions No special storage conditions are required

Handling precautions When handling:
a) Avoid contact with eyes and skin
b) Consumption of food and drink must be forbidden
Wash thoroughly after use

Personal Protection

Respiratory protection If there is a danger of inhaling dust, wear a chemical dust mask

Hand protection Protective gloves (e.g. PVC or rubber) should be worn

Eye protection Plastic or rubber goggles or safety glasses with side shields must be worn

Health Hazards : Toxicity Data

Eye contact Ammonium Chloride will cause severe irritation to the eyes

Skin contact Prolonged or repeated contact may cause irritation

Inhalation Inhalation of the dust will cause irritation of the nose and throat

Ingestion Ammonium Chloride is moderately toxic by ingestion

First Aid Measures

Eye contact Flush eye immediately with plenty of clean water. Continue for several minutes. Obtain medical attention. Show this data sheet to the doctor.

Skin contact Wash immediately with soap and water

Ingestion Wash out mouth with water. Give two glasses of water to drink. Obtain medical attention and show this data sheet to the doctor.