Sodium Thiocyanate Crystalline

Sodium thiocyanate

Inorganic thiocyanates are used for a broad range of applications but mainly used as raw materials or auxiliaries in fiber production, for agricultural products, in photography, in the chemical industry and in construction chemicals. The realization that thiocyanates play an important role in many biochemical processes in animals and humans has been increasingly exploited in the production of personal hygiene products and in the foodstuffs and pharmaceutical industries.

CAS number 540-72-7	EINECS/ELINCS No. 208-754-4
Molecular weight 81.07	Molecular formula NaSCN

Specifications

Appearance	White crystals
Ammonia, as NH_3	≤ 200 mg/kg
Content, on dried basis	≥ 99.0 wt%
Iron	≤ 3 mg/kg
Moisture	≤ 3.0 wt%
pH, 5% aqueous solution	5.0-9.0

Typical Characteristics

Chloride	≤ 200 mg/kg
Heavy metals	≤ 10 mg/kg
Sulphate	≤ 300 mg/kg

Properties

Bulk density	approx. 750 kg/m^3
Melting point	310 °C
Solubility in water, 20°C	approx.1250 g/l

Notes:
Analytical methods are available on request.

Applications

In the fiber industry in spinning baths for acrylic fibers, in the water treatment industry as corrosion inhibitor, in agriculture as an intermediate in the manufacture of pesticides, in the photographic industry as sensitizer and stabilizer, and in the concrete industry as hardening accelerator.

Storage

Store in a cool and dry place and avoid any contact to a strong acid. Use resistant equipment like polymer materials and high grade alloys. Iron corrosion can result in red coloration of product. Although the product is stable when stored under ambient conditions without exposure to other chemicals, it is advised to re-analyze before use after 3 years of storage. High purity sodium thiocyanate is hygroscopic and the low levels of moisture present in the product will result in an agglomeration of the crystals to form a solid. Sodium thiocyanate has good solubility, e.g. in water and solid product can be easily dissolved without prior crushing or grinding. A simple procedure for dissolving sodium thiocyanate in water is available on request.

Packaging and transport

Sodium Thiocyanate Crystalline is delivered in 25 kg net in paper bags.

UN number	none
Hazard Identification No.	none

Safety and handling

For transport, handling and first aid instructions we refer to our Material Safety Data Sheet (MSDS).

For more information, please visit our website at www.nouryon.com.

Contact Us

For more information contact us at:
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