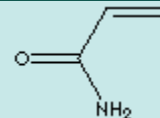


ACRYLAMIDE

PRODUCT IDENTIFICATION

CAS NO.	79-06-1
EINECS NO.	201-173-7
FORMULA	C ₃ H ₅ NO
MOL WT.	71.08
H.S. CODE	
TOXICITY	Oral rat LD50: 390 mg/kg
SYNONYMS	Acrylic amide; Ethylene Carboxamide; 2-Propenamide; Propenoic acid, amide; Vinyl Amide;



DERIVATION

CLASSIFICATION

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	white crystals
MELTING POINT	83 - 85 C (Decomposes)
BOILING POINT	
SPECIFIC GRAVITY	1.122
SOLUBILITY IN WATER	Soluble
pH	
VAPOR DENSITY	2.45
AUTOIGNITION	240 C
NFPA RATINGS	Health: 2; Flammability: 2; Reactivity: 2
REFRACTIVE INDEX	
FLASH POINT	138 C
STABILITY	Stable under ordinary conditions

APPLICATIONS

Acrylamide is an odorless, white crystalline solid which has chemically active amide group and double bond in the molecular structure; melting at 84.5 C; highly soluble in water and soluble in ethanol, ether and acetone; insoluble in benzene and heptane. Polymer of acrylamide, a white, odourless solid, is soluble in water but insoluble in such solvents as alcohols, hexane, ethyl acetate, glacial acetic acid, and lactic acid. Solid acrylamide is stable at room temperature, but may polymerize explosively when heated to the melting point and or in contact with oxidizing agents such as chlorine dioxide and bromine. It may polymerize on exposure to light. When heated to decomposition, acrylamide emits carbon monoxide, oxides of nitrogen, carbon dioxide, ammonia and/or derivatives, hydrogen gas. Acrylamide is commercially available in aqueous solution form stabilized with hydroquinone, t-butylpyrocatechol, N-phenyl-2-naphthylamine or other antioxidants. Acrylamide monomer is produced mostly by the catalytic (copper) hydration of acrylonitrile. The major use of acrylamide and its derivatives is in the production of polymers and modified copolymers for various purposes such as waste and sewage treatment, paper and pulp manufacturing, oil recovery and ore processes, photographic emulsion, soil stabilizer, adhesive coating and food processing.

SALES SPECIFICATION

SOLID

APPEARANCE	white crystals
PURITY	97.0% max
MOISTURE	1.5% max
COLOR, HAZEN	20 max 920\$ solution)

INHIBITOR	5 - 8 ppm
SOLUTION	
APPEARANCE	Clear liquid
CONTENT	25%, 40%, 50%
pH	6 - 7
INHIBITOR	10 ppm
TRANSPORTATION	
PACKING	25kgs in bag , 200kgs in Drum
HAZARD CLASS	6.1 (Packing Group: III)
UN NO.	2074
OTHER INFORMATION	
Hazard Symbols: T, Risk Phrases: 20/21-25-36/38-43-45-46-48/23/24/25-62, Safety Phrases: 53-45	