

2-NITROANILINE**0306**

March 2001

CAS No: 88-74-4

RTECS No: BY6650000

UN No: 1661

EC No: 612-012-00-9

o-Nitroaniline

1-Amino-2-nitrobenzene

C.I. 37025

C₆H₆N₂O₂

Molecular mass: 138.1

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible. Many reactions may cause fire or explosion.	NO open flames. NO contact with combustible substances.	Powder, water spray, foam, carbon dioxide.
EXPLOSION	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	In case of fire: keep drums, etc., cool by spraying with water. Combat fire from a sheltered position.

EXPOSURE		PREVENT DISPERSION OF DUST!	
Inhalation	Blue lips or finger nails. Blue skin. Headache. Dizziness. Nausea. Confusion. Convulsions. Laboured breathing. Unconsciousness.	Local exhaust or breathing protection.	Fresh air, rest. Artificial respiration if indicated. Refer for medical attention.
Skin	MAY BE ABSORBED! (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Eyes		Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	(Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder. (Extra personal protection: P3 filter respirator for toxic particles.) Do NOT let this chemical enter the environment.	T Symbol R: 23/24/25-33-52/53 S: (1/2-)28-36/37-45-61 Note: C UN Hazard Class: 6.1 UN Pack Group: II Do not transport with food and feedstuffs.

EMERGENCY RESPONSE	STORAGE
Transport Emergency Card: TEC (R)-61G12b NFPA Code: H3; F1; R2	Separated from strong acids, strong oxidants, combustible and reducing substances, food and feedstuffs.

IMPORTANT DATA

Physical State; Appearance
ORANGE-YELLOW CRYSTALS

Physical dangers

Dust explosion possible if in powder or granular form, mixed with air.

Chemical dangers

On combustion, forms toxic fumes of nitrogen oxides. Reacts with strong acids, strong oxidants and strong reducing agents. Reacts with organic materials in presence of moisture causing fire hazard.

Occupational exposure limits

TLV not established.

Routes of exposure

The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.

Inhalation risk

No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20°C.

Effects of short-term exposure

The substance may cause effects on the blood, resulting in formation of methaemoglobin. The effects may be delayed. Medical observation is indicated. See Notes.

Effects of long-term or repeated exposure

The substance may have effects on the blood, resulting in the formation of methaemoglobin. See Notes.

PHYSICAL PROPERTIES

Boiling point: 284°C

Melting point: 71°C

Density: 1.44 g/cm³

Solubility in water, g/100 ml at 25°C: 0.126

Vapour pressure, Pa at 20°C: 4

Flash point: 168°C

Auto-ignition temperature: 521°C

Octanol/water partition coefficient as log Pow: 1.44

ENVIRONMENTAL DATA

The substance is harmful to aquatic organisms. Do not let this chemical enter the environment.

NOTES

Depending on the degree of exposure, periodic medical examination is indicated. Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available. Also consult ICSC 0307 3-Nitroaniline, and ICSC 0308 4-Nitroaniline.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information