

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Catalogue No : N 13025

Product Name : m - Nitroaniline

Manufacture / Supplier Identification Company : Nice Chemicals (P) Ltd., PB No: 2217,
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2 COMPOSITION / INFORMATION ON INGREDIENTS

Molecular Formula : C₆H₆N₂O₂

Synonyms :

CAS - No : 99 - 09 - 02

Molar Mass :

Molecular weight : 138.12 g/mol

EC - INDEX No : 612-012-00-9

EC - No : 202-729-1

3 HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 :
[EU-GHS/CLP] Acute toxicity, Inhalation (Category 3)
Acute toxicity, Dermal (Category 3)
Acute toxicity, Oral (Category 3)
Specific target organ toxicity - repeated
exposure (Category 2)
Chronic aquatic toxicity (Category 3)

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Classification according to EU Directives 67/548/EEC or 1999/45/EC :

Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. .
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label Elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram :



Signal word :

Danger

Hazard statement(s)

H301 : Toxic if swallowed.
 H311 : Toxic in contact with skin.
 H331 : Toxic if inhaled.
 H373 : May cause damage to organs through prolonged or repeated exposure.
 H412 : Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P261 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P273 : Avoid release to the environment.
 P280 : Wear protective gloves/ protective clothing.
 P301 + P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
 P311 : Call a POISON CENTER or doctor/ physician.

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)

R-phrases(s)

R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.
 R33 : Danger of cumulative effects.
 R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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S-phrase(s)	:	
S28	:	After contact with skin, wash immediately with plenty of soap and water.
S36/37	:	Wear suitable protective clothing and gloves.
S45	:	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61	:	Avoid release to the environment. Refer to special instructions/ Safety data sheets.
Other Hazards	:	None

4 FIRST AID MEASURES

General advice	:	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	:	Wash off with soap and plenty of water.
In case of eye contact	:	Flush eyes with water as a precaution.
If swallowed	:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most Important symptoms and effects, both acute and delayed	:	Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Indication of any immediate medical attention and special treatment needed	:	No data available

5 FIRE - FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	:	Carbon oxides, nitrogen oxides (NOx)
Advice for firefighters	:	Wear self contained breathing apparatus for fire fighting if necessary.

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Further Information	:	No data available.
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6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental-protection	:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Reference to other sections	:	For disposal see section 13.

7 HANDLING AND STORAGE

Precautions for safe handling	:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Conditions for safe storage, including any incompatibilities	:	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Specific end users	:	No data available

8 EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameter****Components with workplace control parameters****Exposure Controls**

Appropriate engineering controls	:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
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Personal protective equipment

Eye/face protection	:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
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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.
		The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Body Protection	:	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	:	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (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).
Control of environmental exposure	:	No special environmental precautions required.

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance		Form : Crystalline Colour : Yellow
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	10,7 - 12,7
Melting Point/Freezing point	:	Melting point/range: 111 - 114 °C - lit.

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Initial Boiling point and boiling range	:	306,0 °C
Flash Point	:	196,0 °C - closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper/lower flammability or explosive limits	:	No data available
Vapour Pressure	:	No data available
Vapour Density	:	No data available
Relative density	:	0,90 g/cm ³ at 25,00 °C
Water solubility	:	No data available
Partition coefficient: noctanol/water	:	log Pow: 1,37log Pow: 5
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Other Safety information	:	No data available

10 STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	No data available
Possibility of hazardous reactions	:	No data available
Conditions to be avoid	:	No data available
Incompatible materials	:	acids, Acid chlorides, Acid anhydrides, Chloroformates, Strong oxidizing agents
hazardous decomposition products	:	Other decomposition products - no data available

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11 TOXICOLOGICAL INFORMATION**Information on toxicological effects**

Acute Toxicity : LD50 Oral - rat - 535,0 mg/kg

Further toxicological Information

Skin corrosion/irritation : No data available

Serious eye damage/eye irritation : No data available

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : No data 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 : No data available

Specific target organ toxicity - single exposure : No data available

Specific target organ toxicity - repeated exposure : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration hazard : No data available

Signs and symptoms of exposure : Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information : RTECS: BY6825000

12 ECOLOGICAL INFORMATION

Toxicity
Toxicity to fish : LC50 - other fish - 81,2 mg/l - 96,0 h

Persistence and degradability : No data available
Bioaccumulative potential : Danio rerio (zebra fish) - 96 h -28 mg/l
Bioconcentration factor (BCF): 8,3

Mobility in soil : No data available

Results of PBT and vPvB assessment : No data available
Other adverse effects : Very toxic to aquatic life.

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13 DISPOSAL METHOD**Waste treatment methods**

Product	:	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging	:	Dispose of as unused product.

14 TRANSPORT INFORMATION

UN number	:	ADR/RID: -1661	IMDG: -1661	IATA: -1661		
UN Proper shipping name	:	ADR/RID: NITROANILINES IMDG: NITROANILINES IATA: Nitroanilines				
Transport hazard class(es)	:	ADR/RID:- 6.1			IMDG:- 6.1	IATA:- 6.1
Packaging group	:	ADR/RID: - II	IMDG: - II	IATA:- II		
Environmental group	:	ADR/RID: yes	IMDG			
		Marine pollutant: yes	IATA: no			
Special precautions for user	:	No data available				

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture	:	No data available
Chemical safety assessment	:	No data available

16 OTHER INFORMATION