

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

Product Identifier:

Product Name: M-Nitrobenzoic Acid
Chemical Name/Synonyms: M-Nitrobenzoic Acid
EC Number: 204-508-5
CAS Number: 121-92-6
REACH Registration Number: This product has not yet been REACH registered by either the importer or manufacturer as the registration deadline for the quantity imported has not yet passed.

Relevant identified uses of the substance or mixture and uses advised against

Identified use(s): Not available

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

According to Regulation (EC) No 1272/2008:

Physical and Chemical Hazards: Not classified.

Human health: Acute Tox. 4 - H302; Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H335

Environment: Not classified.

Adverse physicochemical, human health and environmental effects: No additional information available

Label Elements:

According to Regulation (EC) No 1272/2008:

EC No.: 204-508-5

Contains: M-NITROBENZOIC ACID

Signal word: Warning



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Hazard Statements: H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statements: P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulations.

Supplementary Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P330 Rinse mouth.
P332+313 If skin irritation occurs: Get medical advice/attention.
P337 If eye irritation persists: Get medical attention.
P362 Take off contaminated clothing and wash before reuse.
P403+233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Other hazards: No further information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures: M-NITROBENZOIC ACID 60-100%
CAS-No.: 121-92-6 EC No.: 204-508-5
Classification (EC 1272/2008): Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
STOT SE 3 - H335

The full text for all Hazard Statements are listed in Section 16

REACH Registration notes: This product has not yet been REACH registered by either the importer or manufacturer as the registration deadline for the quantity imported has not yet passed.

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4. FIRST AID MEASURES

Eye Contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Remove affected person from source of contamination. Promptly flush contaminated skin with water. Promptly remove clothing if soaked through and flush the skin with water. Get medical attention immediately!
Inhalation:	Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.
Ingestion:	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Immediately rinse mouth and provide fresh air. Get medical attention immediately!

Most important symptoms and effects, both acute and delayed: No data available.

Indication of any immediate medical attention and special treatment needed: No data available.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture: In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

Advice for fire-fighters:

Special Fire Fighting Procedures: Use water to keep fire exposed containers cool and disperse vapours. Keep run-off water out of sewers and water sources. Dike for water control. Cool containers exposed to flames with water until well after the fire is out. Move container from fire area if it can be done without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Do not scatter spilled material with more water than needed to fight the fire. If risk of water pollution occurs, notify appropriate authorities. Use self-contained breathing apparatus.

Protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid inhalation of vapour. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust and vapours. Evacuate area Provide adequate ventilation.

Environmental precautions: Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

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Methods and material for containment and cleaning up: Shovel into dry containers. Cover and move the containers. Flush the area with water. Wear respirator, chemical safety goggles, rubber boots and heavy duty gloves. Ventilate area and wash spill site after material pickup is complete. Hold for waste disposal For waste disposal, see section 13.

Reference to other sections: Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in section 13.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid spilling, skin and eye contact. Avoid acids, moisture, and combustible materials. Do not eat, drink or smoke at the workplace Wash thoroughly after handling. Avoid inhalation of dust and contact with skin and eyes. Avoid spreading dust.

Conditions for safe storage, including any incompatibilities: Store in tightly closed original container in a dry, cool and well-ventilated place. Keep containers tightly closed.

Specific end use(s): No additional information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Ingredient Comments: No exposure limits noted for ingredient(s).

DNEL: No data available.

PNEC: No data available.

Exposure controls:

Protective equipment:

Process conditions: Provide eyewash, quick drench.

Engineering measures: Well-ventilated area.

Respiratory equipment: ABEK-P2 (EU EN 143) RESPIRATOR CARTRIDGE Wear suitable respiratory protection.

Hand protection: Obtain the appropriate professional advice taking into account of the conditions under which the glove is used. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. The gloves must satisfy the specifications of EU directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection: Wear splash-proof eye goggles to prevent any possibility of eye contact. Safety glasses with side shields conforming to EN166.

Other Protection: Provide eyewash station and safety shower. Wear appropriate clothing to prevent reasonably probable skin contact.

Hygiene measures: Wash hands at the end of each work shift and before eating, smoking and using the toilet.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Solid
Colour:	Pale yellow to yellow
Solubility:	Slightly soluble in water
Initial boiling point and boiling range:	340°C 760 mm Hg
Melting point:	139 – 142°C
Relative density:	1.49 @ 20°C
Bulk density:	Not available
Vapour pressure:	Not available
Evaporation rate:	Not available
pH value, conc. Solution:	3 @ 5 g/l
Solubility value g/100g H₂O @ 20°C:	3 g/l
Decomposition temperature:	Not available
Flash point:	190°C (Closed cup)
Auto ignition temperature:	490°C
Flammability limit lower/upper:	Not available
Partition co-efficient n-octanol/water:	1.82 Log Pow
Explosive properties:	Not available
Oxidising properties:	Not available

Other information:

Molecular weight: 167.12

10. STABILITY AND REACTIVITY

Reactivity:	No information available.
Chemical stability:	Stable in ambient conditions.
Possibility of hazardous reactions:	Strong oxidising agents.
Conditions to avoid:	Reacts violently with strong oxidising substances. Avoid contact with strong reducing agents. Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time.
Materials to avoid:	Strong reducing agents. Strong oxidising substances.
Hazardous decomposition products:	Toxic gases/vapours/fumes of: Carbon dioxide (CO ₂). Carbon monoxide (CO).

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:	
Toxic Dose 1 - LD50:	670 mg/kg (ipr-rat)
Toxic Dose 2 - LD50:	1450 mg/kg (oral-mouse)
Acute toxicity:	
Acute toxicity (dermal LD50):	Not available.

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Skin corrosion/irritation: No information available

Serious eye damage/irritation: Not available.

Respiratory or skin sensitisation:

Respiratory sensitisation: Not available.

Skin sensitisation: Not available.

Germ cell mutagenicity:

Genotoxicity - In Vitro: Ames Test. Positive.

Genotoxicity - In Vivo: Not available.

Carcinogenicity: Not available.

Reproductive Toxicity:

Reproductive Toxicity – Fertility: Not available.

Specific target organ toxicity - single exposure:

STOT - Single exposure: Not available.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure: Not available.

Inhalation: May cause irritation to the respiratory system. Repeated exposure may cause chronic upper respiratory irritation.

Ingestion: May cause burns in mucous membranes, throat, oesophagus and stomach. Harmful: possible risk of irreversible effects if swallowed.

Skin contact: May cause severe irritation to eyes.

12. ECOLOGICAL INFORMATION

Toxicity: LC 50, 96 Hrs, Fish mg/l ORYZIAS LATIPES 50mg/l 96h

Acute Toxicity - Aquatic Invertebrates: Not available.

Acute Toxicity - Aquatic Plants: Not available.

Acute Toxicity – Microorganisms: Not available.

Chronic Toxicity - Fish Early life Stage: Not available.

Persistence and degradability:

Bioaccumulation potential:

Biodegradation: 0-12 14 days

Half-life: 26 days

Estimated Value

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Bioaccumulative potential:

Partition coefficient: 1.82 Log Pow

Mobility in soil:

Adsorption/Desorption Coefficient: Soil Koc 240
Estimated Value

Henry's Law Constant: 3.8 X 10⁻¹⁰ atm m³/mol
Estimated Value

Results of PBT and vPvB assessment: No data available.

Other adverse effects: No further information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

This material is not classified as hazardous for transportation.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Legislation: Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Source of key data used to compile the data sheet: Supplier information.

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Full text of H statements:

Hazard Statements in Full:

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H302 Harmful if swallowed.

H335 May cause respiratory irritation.

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.