

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name **3-Chloro-4-nitroaniline**
 Product Code 032519
 CAS Number 825-41-2
 Other Names
 IUPAC
 MFCD Number MFCD00085922
 EC/EINECS
 REACH Number

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

Research and Development

3. Details of the supplier of the safety data sheet

Fluorochem Ltd
 Unit 14, Graphite Way
 Hadfield
 Derbyshire
 SK13 1QH
 United Kingdom

Telephone: +44(0)1457 860111
 Fax number: +44(0)1457 892799
 Email: MSDS@fluorochem.co.uk



4. Emergency telephone number

07855 268577

2. Hazards Identification

1. Classification of the substance or mixture

H302	Acute Tox. 4	R22
H311	Acute Tox. 3	R24
H315	Skin Irrit. 2	R38
H319	Eye Irrit. 2	R36
H332	Acute Tox. 4	R20

* The risk codes have been generated using Annex VII of directive 67/548/EEC. Risk code combinations are not included.

2. Label elements

Signal Word **Danger**

Hazard Statements

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P501	Dispose of contents/container to local regulations

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

3-Chloro-4-nitroaniline

Assay:100% CAS Number :825-41-2

2. Mixtures

Concentration	Product Name	CAS Number	EC/EINECS
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4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	IF ON SKIN: Wash with plenty of soap and water.
<i>Eye Contact</i>	Rinse opened eye for several minutes under running water.
<i>Ingestion</i>	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
<i>Inhalation</i>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

2. Most important symptoms and effects

There may be pain and redness.

3. Indication of any immediate medical attention

No additional measures required

5. Firefighting measures

1. Extinguishing Media

Suitable Carbon dioxide.
Alcohol or polymer foam.
Dry chemical powder.

Unsuitable no data

2. Special Hazards arising from the substance or mixture

In combustion toxic fumes may form.

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.
Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Evacuate the area immediately.
Do not attempt to take action without suitable protective clothing – see section 8 of SDS.

2. Environmental Precautions

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Do not discharge into drains or rivers.
Contain the spillage using bunding.

3.Methods & Materials

Mix with sand or vermiculite.
Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7.Handling and Storage

1.Personnal Precautions

<i>Safe Handling</i>	Ensure there is sufficient ventilation of the area.
<i>Protection against explosions and fires</i>	Do not eat, drink or smoke when using this product. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Wash handsoughly after handling.

2.Conditions for safe storage, including any incompatibilities

<i>Managing Storage Risks</i>	Store in cool, well ventilated area. Keep container tightly closed.
<i>Storage Controls</i>	No special requirements
<i>Maintaining Integrity</i>	Keep in tightly closed container in cool area away from direct sunlight or heat sources.
<i>Other advice</i>	no further information available

3.Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8.Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

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2.Exposure Controls

<i>General protective and hygiene measures</i>	Wear protective gloves/protective clothing/eye protection/face protection. . Wash hands during breaks and at the end of handling the material Immediately remove any contaminated clothing
<i>Engineering measures</i>	Use only outdoors or in a well-ventilated area.
<i>Eye / Face Protection</i>	Safety Glasses with side-shields.
<i>Hand protection</i>	Protective gloves.
<i>Respiratory protection</i>	Avoid breathing dust/fume/gas/mist/vapours/spray.. Use breathing protection with high concentrations
<i>Skin protection</i>	Handle with gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice. Wash and dry hands. Protective clothing.
<i>Other personal protection advice</i>	no data

9.Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Yellow powder
Odour	Not Applicable
Odour threshold	Not Applicable
PH	Not Applicable
Melting point / Freezing point	157-161°C
Initial boiling point and boiling range	Not Applicable
Flash point	Not Applicable
Evaporation rate	Not Applicable
Flammability(solid,gas)	Not Applicable
Upper/lower flammability or explosive limits	Not Applicable
Vapour pressure	Not Applicable
Vapour density	Not Applicable
Relative density	Not Applicable
Solubility(ies):	Insoluble in water
Partition coefficient: n-octanol/water	Not Applicable
Auto-ignition temperature	Not Applicable
Decomposition temperature	Not Applicable
Viscosity	Not Applicable
Explosive properties	Not Applicable
Oxidising properties	Not Applicable

2.Other Information

No additional information available

10.Stability and Reactivity

1.Reactivity

no unusual reactivity

2.Stability

Stable under normal conditions.

3.Possibility of Hazardous Reactions

no hazardous reactions known

4.Conditions to Avoid

no specific conditions to avoid

5.Incompatible Materials

Oxidising agents.

6.Hazardous Decomposition Products

In combustion emits toxic fumes.

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

In combustion emits toxic fumes of nitrogen oxides.

In combustion emits possible toxic fumes of hydrogen cyanide.

11.Toxicology information

1.Information

<i>Acute Toxicity</i>	no data
<i>Skin corrosion/irritation</i>	irritant for skin and mucous membranes
<i>Serious eye Damage/irritation</i>	irritant effect
<i>Respiratory or skin sensitisation</i>	No sensitizing effect known
<i>Germ Cell mutagenicity</i>	not known
<i>Carcinogenicity</i>	not known
<i>Reproductive toxicity</i>	not known
<i>STOT-single exposure</i>	not known
<i>STOT-repeated exposure</i>	not known
<i>Aspiration hazard</i>	not known

2.Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC,NTP,OSHA or ACGIH

12.Ecological Information

1.Toxicity

not known

2.Persistence and degradability

not known

3.Bio-Accumulative Potential

not known

4.Mobility and Soil

not known

5.Results of PBT & vPvB assessment

not known

6.Other adverse effects

Water hazard class 2 (self assessment); hazardous for water.

13.Exposure Controls/Personal Protection

1.Waste Treatment Methods

Disposal Operations

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

1. **UN Number:** 2811
2. **UN proper shipping name:** Toxic solid, organic, n.o.s. «
3. **Transport hazard class(es):** Class: 6.1 Sub Class :



4. **Packing group:** III
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

Road (ADR)

1. **UN Number:** 2811
2. **UN proper shipping name:** TOXIC SOLID, ORGANIC, N.O.S.
3. **Transport hazard class(es):** Class: 6.1 Sub Class :



4. **Packing group:** III
5. **Environmental hazards:**
6. **Special Precautions for user:** For the purposes of documentation and package marking, the Proper Shipping Name shall be supplemented with the technical name (see 3.1.2.8.1).
7. **Transport in bulk:**

Sea (IMDG)

Safety Data Sheet

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1. **UN Number:** 2811
2. **UN proper shipping name:** Toxic solid, organic, n.o.s. «
3. **Transport hazard class(es):** Class: 6.1 Sub Class :



4. **Packing group:** III
5. **Environmental hazards:**
6. **Special Precautions for user:** If the chemical or physical properties of a substance covered by this description are such that, when tested, it does not meet the established defining criteria for the class or division listed in column 3, or any other class or division, it is not subject to the provisions of this Code except in the case of a marine pollutant where 2.10.3 applies.
7. **Transport in bulk:** IBCINS: IBC08
IBCPPOV: B3
UNTANKINS: T1
TANKPROV: TP33

15. Safety, health and environmental regulations

1. Safety, health and environmental regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by road)
RID: Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the ICAO
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service

2. Associated risk phrases according to european directive 67/548/EEC

R20	Harmful by inhalation.
R22	Harmful if swallowed.
R24	Toxic in contact with skin.
R36	Irritating to eyes.
R38	Irritating to skin.

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.