Safety Data Sheet



1. Identification of Substance / Mixture

Product Identifier

Product Name 1-Chloro-4-nitrobenzene

Other Names

 Product Code
 240926

 CAS
 100-00-5

MDL MFCD00007285

EINECS N/A

REACH Registration Number

Relevant Uses Research and Development
Uses Advised Against No uses advised against.

Supplier Details

Company Fluorochem Limited

Address Unit 14, Graphite Way, Hadfield. SK13 1QH. UK

 Telephone
 +44(0)1457 860111

 Email
 sds@fluorochem.co.uk

Emergency Telephone +44(0)1457 860111 (08:00 - 17:30)

2. Hazards Identification

Classification Acute Tox. 3 Muta. 1B

Carc. 2 STOT RE 2 Aquatic Chronic 2

Signal Word Danger

Pictograms







GHS06

SHS08

GHS09

Hazards H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

PrecautionsP201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. **P271** Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment. **P280** Wear face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P311 Call a POISON CENTER/doctor.

P312 Call a POISON CENTER/doctor if you feel unwell. **P314** Get medical advice/attention if you feel unwell.

P321 Specific treatment.

P330 Rinse mouth.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Other Classification Hazards

3. Composition of Ingredients

Name CAS **Einecs** Composition Hazards 1-Chloro-4-nitrobenzene 100-00-5 N/A <= 100%

H301 Acute Tox. 3 H311 Acute Tox. 3 H331 Acute Tox. 3 H341 Muta. 1B H351 Carc. 2 H373 STOT RE 2 H411 Aquatic Chronic 2

4. First Aid Measures

Skin Contact

Where Diphoterine is not available, rinse eyes with copious amounts of water for at least 20 minutes. Eye contact

If swallowed rinse the mouth with plenty of water (only if the person is conscious) and immediately contact a Ingestion

poison centre or physician.

Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician. If Inhalation breathing is irregular or stopped, administer artificial respiration.

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing

immediately. Contact a poison centre or physician if you feel unwell.

No additional advice. **General Advice**

Most Important Symptoms and

Effects

No known symptoms or effects.

No additional first aid measures required. **Immediate First Aid Measures**

5. Fire Fighting Measures

Carbon dioxide, alcohol resistant foam or dry chemical powder. Suitable Fire Extinguishing Media

No known unsuitable media. Unsuitable Fire Extinguishing Media

In combustion toxic fumes may form. **Special Hazards**

As in any fire, wear self-contained breathing apparatus and full protective gear. **Advice for Fire Fighters**

6. Accidental Release Measures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure **Personal Precautions**

adequate ventilation. Keep personnel away from spill/leak.

Prevent further leakage if safe to do so. Prevent product from entering drains. Do not let product enter **Environmental Precautions**

waterways or sewer systems. Discharge into the environment must be avoided. Spill Response should only be carried out by trained or qualified personnel.

Containment - Methods and Materials

For personal protection see section 8. For disposal see section 13.

7. Handling and Storage

Personal Precautions

Referenced SDS Sections

Wear appropriate personal protective equipment. Use only under a chemical fume hood ensuring adequate Safe Handling

ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clothing. For

precautions see section 2.2.

Protection Against Explosion and

General Occupational Hygiene

Where possible, use anti static and spark proof equipment when handling.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do not

eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

Conditions for Safe Storage and Incompatabilities

Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place. Managing Storage Risks

No special requirements **Storage Controls**

Keep container tightly closed in a cool area away from sunlight or heat sources. **Maintaining Integrity**

No other specific advice available. Other Advice

No specific end uses are advised. The products supplied are for research purposes only. Specific End Use(s)

8. Exposure Controls / Personal Protection

Control Parameters

Country	Info	Long Term (ppm)	Long Term (mgm3)	Short Term (ppm)	Short Term (mgm3)	Ceiling (ppm)	Ceiling (mgm3)	Other Unit	Remarks
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explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are

close to the workstation location.

Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure eye bath is to hand. **Face Protection**

Handle with impermeable gloves. Inspect gloves before use. Gloves must satisfy the specifications of EU **Hand Proection** Directive 89/686/EEC and the standard EN374 derived from it. 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.

Wear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1

standards. The type of protective equipment must be selected according to the concentration and amount of

the dangerous substance at the specific workplace.

Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed **Respiratory Protection**

under normal use conditions.

Ensure hair or skin particles cannot enter the chemical container. **Hygiene Protection**

Avoid discharge into the environment, see section 6.2. **Environment Exposure Controls**

9. Physical and Chemical Properties

Solid State

light yellow crystalline Appearance No data available. Odour No data available. **Odour Threshold** No data available. рΗ 81 to 84°C **Melting Point / Freezing Point**

No data available. **Initial Boiling Point** 242°C at 760mmHg **Boiling Range** No data available. **Flash Point** No data available. **Evaporation Rate** No data available. **Flammability** No data available. Upper / Lower Flammability or **Explosion Limits**

Skin Protection

No data available. **Vapour Pressure** No data available. **Vapour Density** 1.298g/cm3 **Relative Density**

Note: Insoluble in Water Solubility

No data available. **Partion Coefficient** No data available. **Auto Ignition Temperature** No data available. **Decomposition Temperature** No data available. Viscosity No data available. **Explosive Properties** No data available. **Oxidising Properties**

No additional information available Other information

10. Stability and Reactivity

No known reactivity, based on information available. Reactivity Stable under recommended storage conditions. Stability

None under normal storage conditions. **Possibility of Hazardous Reactions**

Excess heat. Exposure to moisture. **Conditions To Avoid**

No Data Available. **Hazardous Decomposition Products**

11. Toxicology Information

Incompatible Materials

Germ Cell Mutagenicity

No Toxicology data available for this product. **Acute Toxicity** No Toxicology data available for this product. Skin Corrosion / Irritation No Toxicology data available for this product. Serious Eye Damage / Irritation

Toxic if swallowed Respiratory or Skin Sensitisation

Toxic if inhaled.

Strong oxidising agents.

Suspected of causing cancer. Suspected of causing genetic defects.

May cause damage to organs through prolonged or repeated exposure.

Suspected of causing cancer. Carcinogencity

Reproductive Toxicity No Toxicology data available for this product.

May cause damage to organs through prolonged or repeated exposure. **STOT-single Exposure**

May cause damage to organs through prolonged or repeated exposure. STOT-repeated Exposure

No Toxicology data available for this product. **Aspiration Hazard** No Toxicology data available for this product. **Additional Toxicology Information**

12. Ecological Information

No Ecological data available for this product. **Toxicity** No Ecological data available for this product. Persistence and Degradability No Ecological data available for this product. **Bio-Accumulative Potential** No Ecological data available for this product. **Mobility in Soil** No Ecological data available for this product. Results of PBT and vPvB assessment No Ecological data available for this product. **Endocrine Disrupting Properties** Avoid release to the environment. **Other Adverse Effects**

13. Disposal Considerations

Ensure product is disposed of by licensed waste carriers. **Disposal Operations**

Ensure INNER PACKAGING is disposed of by licensed waste carriers. Some OUTER PACKAGING MAY be **Disposal of Packaging**

recyclable if not contaminated.

14. Transport Information

IATA UN Number	1578	ADR UN Number	1578	IMDG UN Number	1578
IATA Proper Shipping Name	CHLORONITROBENZENES, SOLID	ADR Proper Shipping Name	CHLORONITROBENZENES, SOLID	IMDG Proper Shipping Name	CHLORONITROBENZENES, SOLID
IATA Packing Group	II	ADR Packing Group	II	IMDG Packing Group	II
IATA Hazard Class	6.1	ADR Hazard Class	6.1	IMDG Hazard Class	6.1
IATA Sub Class		ADR Sub Class		IMDG Sub Class	-
				IMDG Special Provisions	
				IMDG IBS Instructions	
				IMDG IBC Instructions	IBC08
				IMDG Tank Instructions	ТЗ
				IMDG Tank Provisions	TP33

15. Regulatory Information

As far as Fluorochem is aware, there are no further regulations controlling this product. **Regulatory Information**

No Chemical Safety Assessment available for this product. **Chemical Safety Assessment**

16. Other Information

Information Not Covered in Other Sections

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement

concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des merchandises 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

1.294 Revision

03/11/2022 **Date Modified**

The product listed is for research and development purposes only and not for human or animal use. As such, in Disclaimer 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. This SDS adheres to Regulation (EC) No 1907/2006.