Safety Data Sheet

fluorochem.

1. Identification of the substance/mixture

1.1 Product identification

Product name 2-Chloro-1,3-dinitrobenzene

Other names

Product code F067190 **CAS** 606-21-3

MDL MFCD00014689

EINECS 210-107-6

REACH Registration

number

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

Relevant uses For research and development purposes.

Uses advised against No uses advised.

1.3 Safety Data Sheet supplier details

Company Fluorochem Ltd

Address Unit 14, Graphite Way

Hadfield

Glossop Derbys. SK13 1QH

United Kingdom

Telephone +44 1457 860111

Email sds@fluorochem.co.uk

1.4 Emergency Telephone

Emergency Telephone +44 20 3807 3798 (Poison Information)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification H410 Aquatic Chronic 1

H400 Aquatic Acute 1

H300+H310+H330 Acute Tox. 1

H373 STOT RE 2

2.2 Label Elements

Signal Word

Pictograms

Danger







GHS08 GHS09

Hazards

Precautions

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled.

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

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

P405 Store locked up.

P501 Dispose of contents/container to hazardous waste disposal.

P320 Specific treatment is urgent (see Section 4 on this SDS).

P280 Wear protective gloves/protective clothing and eye/face protection.

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

P264 Wash hands thoroughly after handling.

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

P310 Immediately call a POISON CENTER/doctor.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P335+P334 IF ON SKIN: Brush off loose particles from skin. Immerse in cool water or wrap in wet bandages

P101 If medical advice is needed, have product container or label at hand.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P273 Avoid release to the environment.

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

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P284 Wear respiratory protection.

P270 Do not eat, drink or smoke when using this product.

P201 Obtain special instructions before use.

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

P391 Collect spillage.

P262 Do not get in eyes, on skin, or on clothing.

P102 Keep out of reach of children.

2.3 Other Hazards

Other Classification Hazards

3. Composition

3.1 SUBSTANCE

Name CAS Einecs Composition Hazards

2-Chloro-1,3- 606-21-3 210-107-6

dinitrobenzene

3.2 MIXTURE

Not applicable. Product is a substance.

4. First Aid Measures

4.1 Description of First Aid Measures

Eye Contact Where Diphoterine is not available, rinse eyes with copi-

ous amounts of water for at least 20 minutes. Protect uninjured eye. Remove contact lenses if present and easy to

do. Continue rinsing and seek immediate medical

attention.

Ingestion Where Diphoterine is not available, rinse mouth with copi-

ous amounts of water. Seek urgent medical advice.

Inhalation Remove person to fresh air and keep comfortable for

breathing. If breathing is irregular or stopped, administer artificial respiration and seek immediate medical attention.

Skin Contact Where Diphoterine is not available, wash immediately

with plenty of water and soap. Remove contaminated clothing immediately. Immediately seek medical attention.

General Advice No additional advice.

4.2 Most Important Symptoms and Effects

Most Important Symptoms and

Effects

No known symptoms or effects.

4.3 Indication of any urgent medical attention and special treatments needed

Immediate First Aid Measures No special immediate treatment required.

5. Fire Fighting Measures

5.1 Extinguishing Media

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

powder.

Unsuitable Fire Extinguishing Media No known unsuitable media.

5.2 Special hazards arising from the substance or mixture

Special Hazards In combustion toxic fumes may form.

5.3 Recommendations for firefighting personnel

Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full pro-

tective gear.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

breathing vapours, mist or gas. Ensure adequate ventilation. Keep

personnel away from spill/leak.

6.2 Environmental Precautions

Environmental Precautions Prevent further leakage if safe to do so. Prevent product from enter-

ing drains. Do not let product enter waterways or sewer systems.

Discharge into the environment must be avoided.

6.3 Containment and cleaning methods and materials

Containment - Methods

and Materials

Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring into an airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations.

6.4 References to other sections

Referenced SDS Sections For personal protection see section 8. For disposal see section 13.

7. Handling and Storage

7.1 Precautions for safe handling

Safe Handling Wear appropriate personal protective equipment. Use only under a

chemical fume hood. Keep away from heat/sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate exhaust 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 Fire

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.

7.2 Conditions for Safe Storage and Incompatibilities

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

well-ventilated place.

Storage Controls No special requirements.

Maintaining Integrity Keep container tightly closed in a cool area away from sunlight or

heat sources.

Other Advice No other specific advice available.

7.3 Specific End Use(s)

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

are for research purposes only.

8. Exposure Controls / Personal Protection

8.1 Control Parameters

Control Parameters No data available.

8.2 Exposure Controls

Engineering MeasuresUse only under a chemical fume hood ensuring adequate

ventilation, especially in confined areas. Use explosionproof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the

workstation location.

Face Protection Wear tightly fitting safety goggles which adhere to

European standard EN 166. Ensure eye bath is to hand.

Hand Protection Handle with impermeable gloves. Inspect gloves before

use. Gloves must satisfy the specifications of EU 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.

Skin Protection 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 danger-

ous substance at the specific workplace.

Respiratory Protection Product should be handled in a fume cupboard with ade-

quate extraction. No respiratory equipment is needed un-

der normal use conditions.

Hygiene Measures Ensure hair or skin particles cannot enter the chemical

container.

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

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) State Solid

b) Colourc) OdourNo data available.No data available.

d) Melting Point / Freezing Point 86 to 88°C

e) Initial Boiling point or Boiling range No data available.

f) Flammability No data available.

Explosion Limits No data available. h) Flash Point No data available. i) Auto Ignition Temperature No data available. j) Decomposition Temperature No data available. No data available. k) pH I) Viscosity No data available. m) Solubility No data available. n) Partition Coefficient No data available. o) Vapour Pressure No data available. 1.687g/cm³ p) Relative Density q) Vapour Density No data available. No data available. r) Appearance

9.2 Other Safety Information

Other Information No data available.

10. Stability and Reactivity

10.1 Reactivity

Reactivity No known reactivity, based on information available.

10.2 Stability

Stability Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

Possibility of Hazardous Reactions Fatal if inhaled.

10.4 Conditions to Avoid

Conditions to Avoid Heat, sparks, open flames, sources of ignition. Exposure

to moisture.

10.5 Incompatible Materials

Incompatible Materials Strong oxidizing agents.

10.6 Hazardous Decomposition Products

Hazardous Decomposition Products No data available.

11. Toxicology Information

11.1 Information on Hazard Classes, as defined in Regulation (EC) No. 1271/2008

Acute Toxicity No toxicological data available for this product.

Skin Corrosion / Irritation Fatal if swallowed or in contact with skin.

Serious Eye Damage / IrritationNo Toxicology data available for this product.

Respiratory or Skin Sensitisation Fatal in contact with skin, if inhaled or if swallowed.

Germ Cell Mutagenicity May cause damage to organs through prolonged or re-

peated exposure.

CarcinogenicityNo Toxicology data available for this product. **Reproductive Toxicity**No Toxicology data available for this product.

STOT-single Exposure Fatal if swallowed, in contact with skin or if inhaled., May

cause damage to organs through prolonged or repeated

exposure.

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

peated exposure.

Aspiration Hazard No Toxicology data available for this product.

11.2 Information about Other Hazards

Endocrine Disrupting Properties Avoid release to the environment.

Addition Toxicology Information No Toxicology data available for this product.

12. Ecological Information

12.1 Toxicity

Toxicity No Ecological data available for this product.

12.2 Persistence and Degradability

Persistence and DegradabilityNo Ecological data available for this product.

12.3 Bio-Accumulative Potential

Bio-Accumulative Potential No Ecological data available for this product.

12.4 Mobility in Soil

Mobility in Soil

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No Ecological data available for this product.

12.6 Endocrine Disrupting Properties

Endocrine Disrupting Properties Avoid release to the environment.

12.7 Other Adverse Effects

Other Adverse Effects Avoid release to the environment.

13. Disposal Considerations

13.1 Waste Treatment Methods

Disposal Operations

Disposal of Packaging

14. Transport Information

14.1 UN Number

IATA UN 3441 3441 3441 ADR UN **IMDG UN**

Number Number Number

14.2 Official UN Shipping Name

Chlorodinitrobe IMDG Proper Chlorodinitrobe IATA Proper Chlorodinitrobe ADR Proper Shipping nzenes, solid Shipping nzenes, solid Shipping nzenes, solid Name (2-Chloro-1,3-Name (2-Chloro-1,3-Name (2-Chloro-1,3-

dinitrobenzene) dinitrobenzene) dinitrobenzene)

14.3 Hazard classes for transport purposes

IATA Hazard 6.1 **ADR Hazard** IMDG Hazard No data 6.1 Class Class Class available.

14.4 Packing Group

IATA Packing ADR Packing || IMDG Packing ||

Group Group Group

14.5 Enviromental Hazards

IATA No data **ADR** No data **IMDG** No data **Environmental** available. Environmental available. Environmental available.

Hazards Hazards Hazards

14.6 Special Precautions

No Information Available

14.7 Bulk Maritime Transport in accordance with IMO Instructions

IATA Sub ADR Sub IMDG Sub - None -- None -- None -

Class Class Class

15. Regulatory Information

15.1 Health, safety and environmental regulations/legislation specific to the substance or mixture

Regulatory As far as Fluorochem is aware, there are no further regulations controlling this

Information product.

15.2 Chemical Safety Assessment

Chemical Safety There is no chemical safety assessment available for this product.

Assessment

16. Other Information

Information Not Covered in Other Sections

Information Not Covered in

Other Sections

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road (European agreement on the international transport of dangerous goods by road). RID: International Regulations concerning the Transport of Dangerous Goods by Rail (Regulations regarding 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 fra International Air Transport Association. ICAO: International Civil Aviation Organisation. ICAO-TI: Technical instructions from ICAO. GHS: Globally Harmonized System for Classification and Labelling of Chemicals. CAS: Chemical Abstracts Service

Other Information

Revision

Date Modified

Disclaimer

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19/12/2024 18:46:00

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. This SDS adheres to Regulation (EC) No 1907/2006, and as of 13th April 2023, also conforms to EU Regulation 2020/878.