Safety Data Sheet

fluorochem.

1. Identification of the substance/mixture

1.1 Product identification

Product name 2-Chloropyridine

Other names

Product code F044502 **CAS** 109-09-1

MDL MFCD00006228

EINECS 203-646-3

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 H318 Eye Dam. 1

H373 STOT RE 2 H410 Aquatic Chronic 1

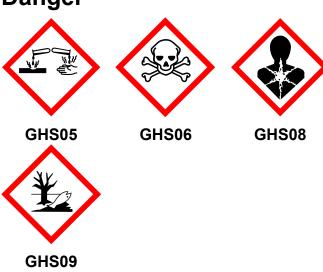
H300+H310+H330 Acute Tox. 2

2.2 Label Elements

Signal Word

Pictograms

Danger



Hazards

H318 Causes serious eye damage.

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

H410 Very toxic to aquatic life with long lasting effects. **H300+H310+H330** Fatal if swallowed, in contact with skin or if inhaled.

or if inhaled. **P302+P335+P334** IF ON SKIN: Brush off loose particles from skin. Immerse in cool water or wrap in wet ban-

P260 Do not breathe dust/fume/gas/mist/vapours/spray. **P301+P310** IF SWALLOWED: Immediately 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.

P264 Wash hands thoroughly after handling.

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

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

P405 Store locked up.

P310 Immediately call a POISON CENTER/doctor.

P391 Collect spillage.

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

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

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

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

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

P201 Obtain special instructions before use.

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

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

P337+P313 If eye irritation persists: Get medical advice/attention.

P284 Wear respiratory protection.

P273 Avoid release to the environment.

P501 Dispose of contents/container to hazardous waste disposal.

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

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

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

P102 Keep out of reach of children.

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

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

Precautions

2.3 Other Hazards

Other Classification Hazards

3. Composition

3.1 SUBSTANCE

Name CAS Einecs Composition Hazards

2-Chloropyridine 109-09-1 203-646-3

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 copious amounts

of water for at least 20 minutes. Protect uninjured eye. Remove contact lenses if present and easy to do. Continue rinsing and seek im-

mediate medical attention.

Ingestion Where Diphoterine is not available, rinse mouth with copious

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 No known symptoms or effects.

and Effects

4.3 Indication of any urgent medical attention and special treatments needed

Immediate First Aid No special immediate treatment required.

Measures

5. Fire Fighting Measures

5.1 Extinguishing Media

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

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 protective gear.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautionsUse personal protective equipment. Avoid dust formation.

Avoid 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 entering 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 Where possible, use anti static and spark proof equipment

when handling.

General Occupational Hygiene 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 re-

search purposes only.

8. Exposure Controls / Personal Protection

8.1 Control Parameters

Control Parameters No data available.

8.2 Exposure Controls

Engineering Measures Use only under a chemical fume hood ensuring adequate ventilation,

especially in confined areas. Use explosion-proof

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 dangerous substance at the specific workplace.

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

tion. No respiratory equipment is needed under 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 Liquid

b) Colour Clear Colourless to Yellow

c) Odour Stench d) Melting Point / Freezing Point -46.5°C

e) Initial Boiling point or Boiling range 170.0°C at 760mmHg

f) Flammability

No data available.
g) Upper / Lower Flammability or

No data available.

Explosion Limits

h) Flash Point 69°C Closed Cup

i) Auto Ignition Temperature >561°C

j) Decomposition Temperature
 k) pH
 l) Viscosity
 No data available.
 No data available.

m) Solubility 20g/L at 25°C in Water

n) Partition Coefficient 1.45

o) Vapour Pressure
 p) Relative Density
 q) Vapour Density
 2.91 hPa at 25°C
 1.2g/cm³ at 20°C
 No data available.

r) Appearance Oil

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 Oral LD50, Rat - male, 342mg/kg Inhalation LC50, Rat - male,

6mg/l/6 h Dermal LD50, Rabbit - 200 - 2000mg/kg/24 h

Skin Corrosion / Irritation Fatal if in contact with skin.

Serious Eye Damage /

Irritation

Causes serious eye damage.

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 repeated

exposure.

Carcinogenicity No 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 dam-

age to organs through prolonged or repeated exposure.

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

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 Toxicity to fish: Danio rerio LC50 - >560 - <1000mg/l/96 h Toxicity to

aquatic invertebrates: Daphnia magna EC50 - 320mg/l/48 h Toxicity to aquatic algae and cyanobacteria: Raphidocelis subcapitata EC50 -

320mg/I/72 h

12.2 Persistence and Degradability

Persistence and Degradability

No 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 Log Pow: 1.45

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

4 4	Tropo	no ut	Infor	matian
14.	Irans	port		mation

14. Transport	Information				
14.1 UN Number					
IATA UN Number	2822	ADR UN Number	2822	IMDG UN Number	2822
14.2 Official UN Si	hipping Name				
IATA Proper Shipping Name	2-Chloropyridine (2-Chloropyridine)	ADR Proper Shipping Name	2- Chloropyridin e (2- Chloropyridin e)	Shipping	2- Chloropyridin e (2- Chloropyridin e)
14.3 Hazard class	es for transport p	urposes			
IATA Hazard Class	6.1	ADR Hazard Class	6.1	IMDG Hazard Class	No data available.
14.4 Packing Grou	ıp				
IATA Packing Group	II	ADR Packing Group	II	IMDG Packing Group	II
14.5 Enviromental	l Hazards				

		Hazarde		Hazarde	
Hazards		Environmental/ailable.		Environmentalalable.	
IATA Environmental	No data available.	ADR	No data	IMDG	No data

14.6 Special Precautions

No Information Available

14.7 Bulk Maritime Transport in accordance with IMO Instructions

IATA Sub Class

- None -

ADR Sub Class

- None -

IMDG Sub Class

- None -

15. Regulatory Information

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

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

product.

15.2 Chemical Safety Assessment

Assessment

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

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

1

Date Modified

19/12/2024 18:46:00

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