Safety Data Sheet

fluorochem.

1. Identification of the substance/mixture

1.1 Product identification

Product name 3-Chloropropane-1,2-diol

Other names

Product code F242924 **CAS** 96-24-2

MDL MFCD00004712

EINECS 202-492-4

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 H370 STOT SE 1

H372 STOT RE 1 H315 Skin Irrit. 2 H301 Acute Tox. 3 H330 Acute Tox. 2 H290 Met. Corr. 1 H318 Eye Dam. 1 H351 Carc. 2 H360 Repr. 1B

2.2 Label Elements

Signal Word

Danger

Pictograms



Hazards

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H315 Causes skin irritation.

H301 Toxic if swallowed.

H330 Fatal if inhaled.

H290 Maybe corrosive to metals.

H318 Causes serious eye damage.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

Precautions

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

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

P390 Absorb spillage to prevent material damage.

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

P405 Store locked up.

P501 Dispose of contents/container to hazardous waste disposal.

P201 Obtain special instructions before use.

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

P264 Wash hands thoroughly after handling.

P284 Wear respiratory protection.

P271 Use only outdoors or in a well-ventilated area.

P234 Keep only in original packaging.

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

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

P308+P311 IF exposed or concerned: Call a POISON

CENTER/doctor.

P310 Immediately call a POISON CENTER/doctor.

P406 Store in a corrosion resistant container with a resistant inner

liner.

P263 Avoid contact during pregnancy and while nursing. **P301+P310** IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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

P102 Keep out of reach of children.

P270 Do not eat, drink or smoke when using this product. **P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

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

P272 Contaminated work clothing should not be allowed out of the workplace.

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

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

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

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

2.3 Other Hazards

Other Classification Hazards

3. Composition

3.1 SUBSTANCE

Name	CAS	Einecs	Composition	Hazards
3-Chloropropane-1,2-diol	96-24-2	202-492-4		

3.2 MIXTURE

Not applicable. Product is a substance.

4. First Aid Measures

4.1 Description of First Aid Measures

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 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 experiencing respiratory problems seek imm-

ediate 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 additional first aid measures 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 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 RisksDo not pack in metal. Air sensitive.

Storage Controls Store under inert gas. , May be corrosive to metals.

Maintaining Integrity Always store and handle under inert gas.

Other Advice No other specific advice available.

7.3 Specific End Use(s)

Specific End Use(s)

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.

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 No data available.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) State Viscous Liquid

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

d) Melting Point / Freezing Point -40.3 - -52.2°C

e) Initial Boiling point or Boiling range 213.0°C

f) Flammability No data available.

g) Upper / Lower Flammability or

Explosion Limits

No data available.

h) Flash Point 142°C i) Auto Ignition Temperature 365°C j) Decomposition Temperature 150

k) pHNo data available.No data available.m) SolubilityNo data available.

n) Partition Coefficiento) Vapour Pressure0.5 at 25°C71 Pa at 20°C

p) Relative Density
 q) Vapour Density
 r) Appearance
 1.324g/cm³ at 20°C
 No data available.

9.2 Other Safety Information

Other Information No data available.

10. Stability and Reactivity

10.1 Reactivity

Reactivity Hygroscopic

10.2 Stability

Stability Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

Possibility of Hazardous

Reactions

None under normal storage conditions.

10.4 Conditions to Avoid

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

10.5 Incompatible Materials

Incompatible Materials Do not pack in metal.

10.6 Hazardous Decomposition Products

Hazardous Decomposition No data available.

Products

11. Toxicology Information

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

Acute Toxicity Oral LD50, Rat, 55mg/kg Inhalation LC50, Rat, 0.28 - 1.13mg/l/14 d

Skin Corrosion / Irritation No Toxicology data available for this product.

Serious Eye Damage /

Irritation

Causes serious eye damage.

Respiratory or Skin

Sensitisation

Fatal if inhaled., Toxic if swallowed.

Germ Cell Mutagenicity Causes damage to organs through prolonged or repeated exposure,

Causes damage to organs.

Carcinogenicity Suspected of causing cancer.

Reproductive Toxicity May damage fertility or the unborn child.

STOT-single Exposure Causes damage to organs through prolonged or repeated exposure,

Fatal if inhaled.

STOT-repeated Exposure Causes

Causes 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

aquatic invertebrates: Daphnia magna EC50 -

>100mg/l/48 h Toxicity to aquatic algae and cyanobacteria: Raphidocelis subcapitata EC50 - >100mg/l/72 h

12.2 Persistence and Degradability

Persistence and DegradabilityNo Ecological data available for this product.

12.3 Bio-Accumulative Potential

Bio-Accumulative PotentialNo Ecological data available for this product.

12.4 Mobility in Soil

Mobility in Soil Log Pow: 0.5 at 25°C

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 Ensure product is disposed of by licensed waste carriers.

Disposal of Packaging Ensure INNER PACKAGING is disposed of by licensed

waste carriers. Some OUTER PACKAGING MAY be recy-

clable if not contaminated.

14. Transport Information

14.1 UN Number

 IATA UN Number
 2689
 ADR UN
 2689
 IMDG UN
 2689

Number Number

14.2 Official UN Shipping Name

IATA Proper ADR Glycerol alpha-Glycerol al-**IMDG** Glycerol almonochlorohydrin **Proper Proper** Shipping Name phapha-(3-Chloropropane-Shipping monochloro-Shipping monochloro-

> 1,2-diol) Name hydrin (3- Name hydrin (3-Chloropropa Chloropropa ne-1,2-diol) ne-1,2-diol)

14.3 Hazard classes for transport purposes

IATA Hazard 6.1 ADR Hazard 6.1 IMDG Hazard No data 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 - None - ADR Sub - None - IMDG Sub - None -

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

in Other Sections

16. Other Information

Information Not Covered in Other Sections

Information Not Covered 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.