

# Material Safety Data Sheet

Liverpool ChiroChem Ltd., Department of Chemistry, Crown Street, Liverpool L69 7ZD, United Kingdom  
Emergency Telephone No. +44 (0) 151 794 2936

## 1. Product Identification

Chemical Name:	(S)-2-(fluoromethyl)morpholin-4-ium chloride
Product No.:	A6847
CAS Registry No.:	1848952-54-4 (component 1848952-53-3)
Synonyms:	N/A
Chemical Family:	Heterocyclic compound

## 2. Composition on Ingredients

Molecular Weight:	155.59
Molecular Formula:	C5H11ClFNO
Purity (%):	>98%

## 3. Hazard Identification

Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

### Label elements:

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Hazard statement(s):

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H320	Serious eye damage/eye irritation
H335	May cause respiratory irritation.

Precautionary statement(s):

P264	Wash hands thoroughly after handling. Wash skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	IF SKIN irritation occurs: Get medical advice/attention.

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P337+P313 IF eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.

## 4. First Aid Measures

Eyes Exposure: Immediately flush with water for at least 15 minutes. If discomfort persists, seek medical attention.  
Skin Exposure: Wash with soap for 15 minutes. If exposure is severe or irritation develops, seek medical attention.  
Inhalation: Remove to fresh air and seek medical attention. If breathing is difficult, give oxygen.  
Ingestion: Wash out mouth with water. Seek medical attention.

## 5. Fire Fighting Measures

Flash Point: Not known.  
Autoignition Temperature: Not known.  
Explosion Limits: Not known.  
Personal Protection: Wear breathing apparatus and protective clothing.  
Extinguishing Medium: Sand, carbon dioxide, dry chemical powder, or appropriate foam.  
Special Precautions: Likely to emit irritating fumes under fire conditions.  
Take reasonable care to avoid contamination of watercourses and drains

## 6. Accidental Release Measures

Wear breathing apparatus and protective clothing; cordon off area (especially downwind).  
Mix with sand or similar inert absorbent material, sweep up and place in closed containers for waste disposal. Avoid raising dust.  
Ventilate area and thoroughly wash spill site after material pickup is complete.

## 7. Handling and Storage

Avoid contact of this material with eyes, skin and clothing.  
Use chemical-resistant gloves and impervious overalls for operations that could result in skin contact.  
Avoid breathing dust or vapours. Use local exhaust ventilation.  
Use suitable respiratory protection, such as an air hood.  
Store in closed vessels. Store at 4°C.

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## 8. Exposure Controls

No official exposure limits have been set for this sample.

## 9. Chemical and Physical Properties

Appearance:	White Powder
Odour:	Not known.
pH:	Not known.
Melting Point:	Not known.
Boiling Point:	Not known.

## 10. Stability

Chemical Stability:	Stable under recommended storage conditions.
Incompatibilities with Other Materials:	Strong oxidizing agents.
Hazardous combustion or Decomposition products:	Carbon monoxide, carbon dioxide, and nitrogen oxides.

## 11. Toxicology

No specific toxicology data is available. Sample should be treated as Harmful as a minimum precaution. Safety measures should be taken accordingly.

## 12. Ecology

No specific ecology data is available. Do not allow to enter drains, sewers and watercourses.

## 13. Disposal

Disposal should be in according with local, state or national legislation. Dispose of as hazardous waste. Incineration is recommended.

## 14. Transportation

Shipping Name:	(S)-2-(fluoromethyl)morpholin-4-ium chloride
Hazard Class:	Non-hazardous for shipment
UN ID Number:	Not known
Packing Group:	Not known

## 15. Regulatory Information

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This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## 16. Other Information

### Liability:

Information contained in this document is accurate to the knowledge of the publisher.  
Liverpool ChiroChem Ltd shall not be held liable for any damage resulting from handling or contact with this sample.

### Version Number:

1.0

### Preparation Date:

11/02/2019

### Revision Date:

11/02/2021