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# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

m hydrochloride
22-5

NA

Reach registration number:

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

The uses of the chemical:	Active pharmaceutical ingredients
Classification of the economic activities (NACE):	212
Use categories (UC62):	41

# **1.3.Details of the supplier of the safety data sheet:**

Manufacturer/importer:	Fermion Oy
Street address:	Koivu-Mankkaan tie 6 A
Post-office box:	P.O. Box 28
Postcode:	02101 Espoo, Finland
Telephone number:	+358 10 4261
Telefax:	+358 9 452 1764
E-mail address:	chemicalsafety@orion.fi
VAT Reg. No:	FI18552129

### **1.4. Emergency telephone number**

Poison Center:

+358 9 471 977

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### **2.1.** Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008	Acute Tox. 4	Н302,
H Statements	Harmful if swallowed.	



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### 2.2. Label elements

**Hazard Pictograms** 



Warning

H Statements H302 Harmful if swallowed.

#### **P** Statements

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P305+P351+P313, P501 IF IN EYES: Rinse continuously with water for several minutes. Get medical advice/attention.

Dispose of contents according to national and local law.

#### 2.3. Other hazards

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.1. Substances

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Name of the ingredient	CAS-number:	EC-number	Reach registration number:
Diltiazem hydrochloride	33286-22-5	251-443-3	NA

**Other information** 

# **SECTION 4: FIRST AID MEASURES**

### 4.1. Description of first aid measures

**Special instructions** 

Helpers should ensure their own protection.

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Inhalation		IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
Skin contact		Remove/Take off immediately all contaminated clothing. Wash with soap and water.
Eye contact		IF IN EYES: Rinse continuously with water for several minutes. Get medical advice/attention.
Ingestion		Rinse mouth. Induce vomiting. If the patient is conscious, give plenty of water (2 - 4 glasses), and let the charcoal (approximately 20 tablets), or give activated charcoal slurry (2 - 4 glasses). Get medical advice/attention.

# 4.2. Most important symptoms and effects, both acute and delayed

See section 11 for symptoms of exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Data not available.

# **SECTION 5: FIRE-FIGHTING MEASURES**

# 5.1. Extinguishing media

Suitable extinguishing media

Powder Carbon dioxide Foam Water



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#### 5.2. Special hazards arising from the substance or mixture

May emit toxic fumes of hydrogen chloride and oxides of carbon and nitrogen during heating or fire. May emit toxic fumes of oxides of sulphur during heating or fire.

#### **5.3. Advice for fire-fighters**

Special protective equipment for fire-fighters

Isolating breathing apparatus eg. compressed breathing apparatus and protective clothing.

**Other instructions** 

Cool fire exposed containers with water jet.

**SECTION 6: ACCIDENTAL RELEASE MEASURES** 

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Access of extra people to the spill area must be prevented.

6.2. Environmental precautions

Data not available.

6.3. Methods and material for containment and cleaning up

Collect spilled powder without dusting into tight closed container.

6.4. Reference to other sections

See Section 8 and 13

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# **SECTION 7: HANDLING AND STORAGE**

# 7.1. Precautions for safe handling

Handle in well-ventilated space.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Protect from sunlight. See incompatible materials in section 10.5.

7.3. Specific end use(s)

No information identified.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1. Control parameters

**International OEL values** 

DNELs

PNECs

# 8.2. Exposure controls

# Appropriate engineering controls

Handle in closed systems or use an efficient local exhaust if vapours or mists may release into workplace air. If technical measures cannot prevent exposure, wear personal protective equipment. All exposure must be avoided. Avoid dust formation.

Wash up thoroughly after handling (shower).

# **Respiratory protection**

In open handling use respirator (P3) with a minimum protection factor of 20. See standard working procedures/instructions or department's instructions for more detailed protection measures.

# Hand protection

Use protective gloves (e.g. nitrile or neopren gloves).

**Eye protection** Use protective goggles.



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Skin protection

Use normal working clothes.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	
Physical state Colour Odour Odour threshold	Powder White Odourless -
9.1. Information on basic physical and chemical	properties
pH Value	4,8 1% w/V
Melting point	210 - 215 °C
Water solubility	Freely soluble
Solubility	Soluble in methanol

# 9.2. Other information

# **SECTION 10: STABILITY AND REACTIVITY**

10.1.Reactivity

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# 10.2. Chemical stability

Stable when stored and handled according to instructions of use.

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#### 10.3. Possibility of hazardous reactions

Not expected to occur.

#### 10.4. Conditions to avoid

Dust may form explosive mixtures with air.

## **10.5. Incompatible materials**

**10.6 Hazardous decomposition products** 

May emit toxic fumes of hydrogen chloride and oxides of carbon and nitrogen during heating or fire. May emit toxic fumes of oxides of sulphur during heating or fire.

# **SECTION 11: TOXICOLOCIGAL INFORMATION** 11.1. Information on toxicological effects Harmful if swallowed. Acute toxicity LD50 = 560 mg/kg (rat, oral) Skin irritation and corrosion Data not available. **Skin sensitization** Data not available. Serious eye damage and irritation Data not available. **Respiratory irritation** Data not available. **Respiratory sensitization** Data not available. Carcinogenicity Data not available. Germ cell mutagenicity Data not available. **Reproductive toxicity** The substance has shown teratogenic effects in animal experiments. TDLO = 1200 mg/kg (rat, oral, 9-14D preg) -> maternal effects (parturition), effects on embryo or fetus TDLO = 60 mg/kg (rat, oral, 9-14D preg) ->



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		specific developmental effects on newborn
STOT-single exposure		Data not available.
STOT-repeated exposure		Data not available.
Aspiration hazard		Data not available.
Repeated dose toxicity		Symptoms of exposure include gastrointestinal disturbances, dizziness and headache. Hypotension. Bradycardia. Possibly effects on the liver (elevations in liver enzyme values; occasionally hepatitis).

# **SECTION 12: ECOLOGICAL INFORMATION**

12.1. Toxicity	
Aquatic toxicity	
Data not available.	
Toxic effects on other organisms	
Data not available.	
12.2.Persistence and degradability	
Data not available.	
12.3. Bioaccumulative potential	
Octanol-water partition coefficient	Data not available.
Bioconcentration factor	Data not available.
12.4. Mobility in soil	

Data not available.



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#### 12.5. Results of PBT and vPvB assessment

Data not available.

#### 12.6. Other adverse effects

Data not available.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### **13.1.** Waste treatment methods

Chemical incinerator equipped with an afterburner and scrubber is the recommended method of disposal for this material. Observe all local and national regulations when disposing of this material.

**SECTION 14: TRANSPORT INFORMATION** 

14.1. UN Number

14.2. UN Proper shipping name

# 14.3. Transport hazard class(es) ( ADR/RID,IMDG,ICAO/IATA)

This product is not regulated under the transport regulations.

14.4. Packing group

14.5. Environmental hazard

14.6. Special precautions for user

14.7.Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable



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### **SECTION 15: REGULATORY INFORMATION**

15.1. Safety, health and environmental regulations/legislation specific for substance or mixture

The product has not been fully tested.

#### 15.2. Chemical Safety Assessment

No

**SECTION 16: OTHER INFORMATION** 

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Fermion Oy shall not be held liable for any damage resulting from handling or from contact with the above product.

Sources of key data used to compile the Safety Data Sheet

Information provided by the supplier

Information which has been added, deleted or revised

Updated section / sections: 1, 8