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

1.1. Product identifier

Trade name: Calcium folinate
CAS-number: 1492-18-8

Reach registration number: NA

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 0 9452 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 1272/2008	Resp. Sens. 1 Skin Sens. 1 Eye Irrit. 2 STOT SE 3 Skin Irrit. 2	H334, H317, H319, H335, H315,
H Statements	May cause allergy or asthma symptoms of breathing difficulties if inhaled. May cause an allergic skin reaction.	

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	Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation.
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2.2. Label elements

Hazard Pictograms



Signal word Danger

H Statements

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H315 Causes skin irritation.

P Statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing.
- P302+P352 IF ON SKIN: Wash with soap and water.
- P280 Wear protective gloves/protective clothing/eye protection.
- P501 Dispose of contents according to national and local law.

2.3. Other hazards

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Name of the ingredient	CAS-number:	EC-number	Reach registration number:

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Calcium folinate	1492-18-8	216-082-8	NA
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Request for Confidentiality by Annex 2 No

Substance indicated Confidential No

Other information -

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Special instructions Helpers should ensure their own protection.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If experiencing respiratory symptoms:
Get medical advice/attention.

Skin contact Remove/Take off immediately all contaminated clothing.
IF ON SKIN: Wash with soap and water.
If skin irritation occurs: Get medical advice/attention.

Eye contact IF IN EYES: Rinse continuously with water for several minutes. Get medical advice/attention.

Ingestion Rinse mouth.
Get medical advice/attention.

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

Data not available.

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

Data not available.

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SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Water
Carbon dioxide
Foam
Powder

5.2. Special hazards arising from the substance or mixture

May emit toxic fumes of oxides of carbon and nitrogen 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

Avoid dust formation.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required.

6.2. Environmental precautions

Do not put into water system, drain or soil.

6.3. Methods and material for containment and cleaning up

Collect spilled powder without dusting into tight closed container.
Provide sufficient ventilation.

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.
 Avoid breathing dust/fume/gas/mist/vapours/spray.
 Do not get in eyes, on skin, or on clothing.
 Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed.
 Store in a dry place.
 Hermetical storing.
 Storage temperature: < 25 °C.
 Protect from freezing.
 Protect from moisture.
 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 well-ventilated space.
 Avoid dust formation.
 Avoid breathing dust/fume/gas/mist/vapours/spray.
 Do not get in eyes, on skin, or on clothing.

Respiratory protection

Use respirator, filtration P3. In laboratories work in fume hood or under dust control hood.
 See particular department's regulations of protection.

Hand protection

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

Eye protection

Use protective goggles.

Skin protection

Wear protective clothing.

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

Physical state	Powder
Colour	White / Yellowish
Odour	Odourless
Odour threshold	-

9.1. Information on basic physical and chemical properties

pH Value	6,8 - 8,0 2,5 % w/V
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Water solubility	Freely soluble
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Decomposition temperature	240 - 250 °C
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9.2. Other information

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SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

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10.2. Chemical stability

Stable under normal conditions.

Hygroscopic.

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10.3. Possibility of hazardous reactions

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10.4. Conditions to avoid

Light

Air

10.5. Incompatible materials

Strong oxidants

10.6 Hazardous decomposition products

Carbon dioxide

Carbon monoxide

Nitrogen oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	Absorbs from the gastrointestinal tract. LD50: > 8 g/kg (rat, oral)
Skin irritation and corrosion	Causes skin irritation.
Skin sensitization	May cause an allergic skin reaction.
Serious eye damage and irritation	Causes serious eye irritation.
Respiratory irritation	May cause respiratory irritation.
Respiratory sensitization	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Carcinogenicity	Not listed by ACGIH, IARC, NIOSH, NTP, OSHA.

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Germ cell mutagenicity	There is no evidence of mutagenicity.
Reproductive toxicity	No evidence of teratogenic potential.
STOT-single exposure	Data not available.
STOT-repeated exposure	Substance may cause allergy when left constantly on the skin.
Aspiration hazard	Data not available.
Repeated dose toxicity	Data not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

Not expected to be harmful to aquatic plant and animal life.

Toxic effects on other organisms

Data not available.

12.2. Persistence and degradability

No persisting influence on the environment to be expected.

12.3. Bioaccumulative potential

Octanol-water partition coefficient Low bioaccumulation.

Bioconcentration factor Data not available.

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12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

Data not available.

12.6. Other adverse effects

Do not put into water system, drain or soil.

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

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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

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14.5. Environmental hazard

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14.6. Special precautions for user

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

Not applicable

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for substance or mixture**

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15.2. Chemical Safety Assessment

No

SECTION 16: OTHER INFORMATION**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:
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