

Effective Date 29.02.2016
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: Azathioprine
CAS-number: 446-86-6

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	Acute Tox. 4 Carc. 1B Muta. 1B Repr. 2 Eye Irrit. 2 STOT SE 3 Skin Irrit. 2	H302, H350, H340, H361d, H319, H335, H315,
H Statements	Harmful if swallowed.	

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	<p>May cause cancer. May cause genetic defects. Suspected of damaging the unborn child. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation.</p>
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2.2. Label elements

Hazard Pictograms



Signal word

Danger

H Statements

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H361d Suspected of damaging the unborn child.

P Statements

- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P302+P352 IF ON SKIN: Wash with soap and water.
- P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing.
- P280 Wear protective gloves/protective clothing/eye protection.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- 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

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Name of the ingredient	CAS-number:	EC-number	Reach registration number:
Azathioprine	446-86-6	207-175-4	NA

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	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If appropriate, give artificial respiration or oxygen. If appropriate, give oxygen. 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	Do NOT induce vomiting. Rinse mouth. If the patient is conscious, give plenty of water (2 - 4 glasses). Get medical advice/attention.

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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	Foam
	Water
	Powder
	Carbon dioxide

5.2. Special hazards arising from the substance or mixture

May emit toxic fumes of oxides of carbon, nitrogen and 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.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required.

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.
Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Keep cool.
Store in a dry place.
Keep container tightly closed.
Protect from moisture.
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 well-ventilated space.
All exposure must be avoided.

Respiratory protection

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

Hand protection

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

Eye protection

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Use protective goggles.

Skin protection

Wear protective clothing.

Environmental exposure controls

Releases to the environment should be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	Crystalline
Colour	Nearly white
Odour	Odourless
Odour threshold	-

9.1. Information on basic physical and chemical properties

pH Value	6 - 7
Melting point	224 °C
Water solubility	Insoluble

9.2. Other information

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

-

10.2. Chemical stability

-

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10.3. Possibility of hazardous reactions

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10.4. Conditions to avoid

Moisture

Light

10.5. Incompatible materials

Strong oxidants

10.6 Hazardous decomposition products

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	Harmful if swallowed. LD50 = 400 mg/kg (rat, oral)
Skin irritation and corrosion	Causes skin irritation.
Skin sensitization	Data not available.
Serious eye damage and irritation	Causes serious eye irritation.
Respiratory irritation	May cause respiratory irritation.
Respiratory sensitization	Data not available.
Carcinogenicity	May cause cancer. The substance has been found carcinogenic in animal tests.
Germ cell mutagenicity	May cause genetic defects. Substance has been found mutagenic in animal tests.

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Reproductive toxicity	Suspected of damaging the unborn child. TDLO = 15 mg/kg (rat, oral 6-8D preg) -> effects on fertility TDLO = 120 mg/kg (rat, oral 10-15D preg) -> effects on newborn
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	Long term or frequent contact may cause irritation.
Aspiration hazard	Data not available.
Repeated dose toxicity	Data not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

EC50: > 100 mg/l, 48 h, Daphnia magna, water flea

Toxic effects on other organisms

IC50: > 1000 mg/l, 3 h (Activated sludge)
IC50: > 100 mg/l, 72 h (Scenedesmus subspicatus)

12.2. Persistence and degradability

Not readily biodegradable.

12.3. Bioaccumulative potential

Octanol-water partition coefficient(KOW)	Data not available.
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

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

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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

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:

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