according to Regulation (EC) No. 1907/2006



# 6-Mercaptopurine monohydrate

Version: 4.2 Revision	Date:         22.01.2025         SDS Number:         10000000297				
SECTION 1: Identification of	SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1 Product identifier					
Trade name	: 6-Mercaptopurine monohydrate				
REACH Registration Number	nr : -				
CAS-No.	: 6112-76-1				
EC-No.	: 200-037-4				
Unique Formula Identifier	: -				
1.2 Relevant identified uses of	the substance or mixture and uses advised against				
Use of the Sub- stance/Mixture	: Active pharmaceutical ingredients				
Recommended restrictions on use	: No data available				
1.3 Details of the supplier of th	e safety data sheet				
Company	: Fermion Oy				
Street address	: Koivu-Mankkaan tie 6 A				
Post-office box:	: P.O. Box 28				
Postcode	: 02101 Espoo, Finland				
Telephone	+358 10 4261				
E-mail address of person	: chemicalsafety@orion.fi				
responsible for the SDS					
VAT Reg. No:	<sup>:</sup> FI18552129				
1.4 Emergency telephone num	ber				
Poison Center	: +358 800 147111 +358 9 471 977				

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)

d.
(

For explanation of abbreviations see section 16.

#### 2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

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Danger

Signal Word

#### Hazard Statements

Hazard pictograms

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

#### **Precautionary Statements**

#### General:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P501 Dispose of contents according to national and local law.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

# 2.3 Other hazards

Other hazards	:	No data available		
PBT	:	No data available		
vPvB	:	No data available		
Endocrine disrupting pro- perties	:	Ecological information: No data available		
perues		Toxicological information: No data available		

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Chemical name	CAS-No. EC-No. Registration-No	Concentration (% w/w)	M-Factor, SCL, ATE
6-Mercaptopurine mono- hydrate	6112-76-1		
	200-037-4		

# Other information

: No data available

#### 3.2 Mixtures

Not applicable

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**SECTION 4: First aid measures** 

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4.1 Description of first-aid measures				
General advice	:	Helpers should ensure their own protection.		
If inhaled	:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If appropriate, give oxygen. If appropriate, give artificial respiration. Get medical advice/attention.		
In case of skin contact	:	Remove/ Take off immediately all contaminated clothing. IF ON SKIN: Wash with soap and water. Get medical advice/attention.		
In case of eye contact	:	IF IN EYES: Rinse continuously with water for several minu- tes. Get medical advice/attention.		
If swallowed	:	Rinse mouth. Get medical advice/attention.		
4.2 Most important symptoms and effects, both acute and delayed				

Symptoms	: See section 11 for symptoms of exposure	э.
Risks	: No data available	

**4.3 Indication of any immediate medical attention and special treatment needed** Treatment : No data available

# **SECTION 5: Firefighting measures**

SECTION 5. Firengining mea	Sui	65
5.1 Extinguishing media		
Suitable extinguishing media	:	Carbon dioxide (CO2) Foam Water Powder
Unsuitable extinguishing media	:	No data available
5.2 Special hazards arising from	h the	e substance or mixture
Specific hazards during fire fighting	:	May emit toxic fumes of oxides of carbon, nitrogen and sulphur during heating or fire.
Hazardous combustion pro- ducts	:	No data available
5.3 Advice for firefighters		
Special protective equipment for fire-fighters	:	Isolating breathing apparatus eg. compressed breathing appa- ratus and protective clothing.
Specific extinguishing me- thods	:	No data available

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Further information	: No data available
SECTION 6: Accidental relea	ase measures
6.1 Personal precautions, prote	ective equipment and emergency procedures
Personal precautions	: Use personal protective equipment as required.
6.2 Environmental precautions	
Environmental precautions	: Data not available.
6.3 Methods and material for co	ontainment and cleaning up
Methods for cleaning up	: Collect spilled powder without dusting into tight closed container.
6.4 Reference to other sections See Section 8 and 13	5
SECTION 7: Handling and st	torage
7.1 Precautions for safe handlir	ng
Advice on safe handling	: Handle in well-ventilated space. All exposure must be avoided.
7.2 Conditions for safe storage,	, including any incompatibilities
Requirements for storage	: Store in a well ventilated place.
areas and containers	Keep container tightly closed. Keep in a dry place.
	Keep cool.
	See incompatible materials in section 10.5.
Packaging material	: Suitable material: No data available
	Unsuitable material: No data available
7.3 Specific end use(s)	
Specific use(s)	: No information identified.

# 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

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

# Personal protective equipment

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Respiratory p	rotection	:	In open handling use respirator (P3) with a minimum protec- tion factor of 200. See standard working procedures/instructions or department's instructions for more detailed protection measures.
Eye/face prote	ection	:	Use protective goggles.
Hand protection Remarks	on	:	Use protective gloves (e.g. nitrile or neopren gloves).
Skin and body	v protection	:	In dust making work use disposal overalls and extra throwa- way sleeves.
Protective me	asures	:	No data available
Environment	al exposure co	ontro	ols
Air		:	The environmental characteristics of this substance have not been fully investigated.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Form	:	crystalline
Physical state	:	solid
Color	:	yellow
Odor	:	odorless
Odor Threshold	:	No data available
Melting point/range	:	308 °C
Boiling point/boiling range	:	No data available
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Self-Accelerating decomposi- tion temperature (SADT)	:	No data available
рН	:	No data available

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Viscosity Viscosity, dynamic	: No data available		
Viscosity, kinemati	ic : No data available		
Flow time	: No data available		
Solubility(ies) Water solubility	: Almost insoluble		
Solubility in other s	solvents : No data available		
Dissolution Rate	: No data available		
Partition coefficient: n octanol/water	- : No data available		
Dispersion Stability	y : No data available		
Vapor pressure	: No data available		
Relative density	: No data available		
Density	: No data available		
Bulk density	: No data available		
Relative vapor density	y : No data available		
Dissociation constant	: No data available		
Particle characteristic	s : No data available		
9.2 Other information Self-ignition	: No data available		
Hygroscopic propertie	es : No data available		
Henry's Constant	: No data available		
Further information	: No data available		

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Stable under normal conditions.

#### 10.2 Chemical stability

Stable when stored and handled according to instructions of use.

# 10.3 Possibility of hazardous reactions

Hazardous reactions : Not expected to occur.

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10.4	Conditions to avoid
	Conditions to sucid

Conditions to avoid	:	Light
10.5 Incompatible materials		
Materials to avoid	:	Strong oxidants Acids Bases

#### **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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Health hazard information	:	Harmful if swallowed.		
Acute oral toxicity	:	LD50 (Rat): 425 mg/kg LD50 (Mouse): 1 250 mg/kg		
Acute inhalation toxicity	:	No data available		
Acute dermal toxicity	:	No data available		
Acute toxicity (other routes of administration)	:	No data available		
Skin corrosion/irritation				
Result	:	Causes skin irritation.		
Serious eye damage/eye irri	itati	on		
Result	:	Causes serious eye irritation.		
Respiratory or skin sensitization No data available				
• •	atio	n		
• •	atic	'n		
No data available	atic :	n May cause genetic defects.		
No data available Germ cell mutagenicity				
No data available Germ cell mutagenicity Genotoxicity in vitro	:	May cause genetic defects. No data available		
No data available Germ cell mutagenicity Genotoxicity in vitro Genotoxicity in vivo Carcinogenicity	:	May cause genetic defects.		
No data available Germ cell mutagenicity Genotoxicity in vitro Genotoxicity in vivo Carcinogenicity	:	May cause genetic defects. No data available		

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	TDLO = 4 mg/kg (6-9 D preg; i.p.hamster) -> effects on fertility TDLO = 250 mg/kg (5 D male; i.p. mouse) -> effects on fertility
Effects on fetal developme	ent : No data available
<b>STOT-single exposure</b> No data available	
<b>STOT-repeated exposure</b> No data available	e
<b>Repeated dose toxicity</b> No data available	
<b>Aspiration toxicity</b> No data available	
1.2 Information on other haz	zards
Endocrine disrupting pro	operties
Experience with human	exposure : No data available
Inhalation	: No data available
Skin contact	: No data available
Eye contact	: No data available
Ingestion	: No data available
Toxicology, Metabolism,	, Distribution
Remarks	: No data available
<b>Neurological effects</b> Remarks	: No data available
Further information Remarks	: May cause respiratory irritation.
<b>Other Health Hazards</b> No data available	

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ma	ation
:	No data available
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BOD/ThOD	: No data available
Dissolved organic carbon (DOC)	: No data available
Physico-chemical removabili- ty	: No data available
Stability in water	: No data available
Impact on Sewage Treat- ment	: No data available
Photodegradation	: No data available
2.3 Bioaccumulative potential	
Bioaccumulation	: No data available
Partition coefficient: n- octanol/water	: No data available
2.4 Mobility in soil	
Mobility	: No data available
Distribution among environ- mental compartments	: No data available
Stability in soil	: No data available
2.5 Results of PBT and vPvB as	
Assessment	: No data available
<b>2.6 Endocrine disrupting prope</b> No data available	ties
2.7 Other adverse effects Environmental fate and pa- thways	: No data available
Adsorbed organic bound halogens (AOX)	: No data available
Ozone-Depletion Potential	: No data available
Additional ecological informa-	: No data available



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# **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.

Contaminated packaging : Chemicals must be disposed of in compliance with the respective national regulations.

SECTION 14: Transport information				
14.1 UN number				
ADR/RID: -	IMDG: -	IATA: -		
14.2 UN proper shipping name				
-				
14.3 Transport hazard class(es) (A	.DR/RID, IMDG, ICAO/IATA)			
ADR/RID: This product is not regulated under the transport regulations.	IMDG: This product is not regulated under the transport regulations.	IATA: This product is not regulated under the transport regulations.		
14.4 Packing group				
ADR/RID: -	IMDG: -	IATA: -		
14.5 Environmental hazards				
ADR/RID: -	IMDG: -	IATA: -		
14.6 Special precautions for user				
Tunnel restriction code	: No data available			
Further information for trans- port	: No data available			
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 the substance or mixture

The product has not been fully tested.

#### **15.2 Chemical Safety Assessment**

No

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# **SECTION 16: Other information**

#### Full text of H-Statements

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

#### Full text of other abbreviations

Acute Tox. :	:	Acute toxicity
Carc. :		Carcinogenicity
Muta. :		Germ cell mutagenicity
Repr. :		Reproductive toxicity
Eye Irrit. :	:	Eye irritation
STOT SE :	:	Specific target organ toxicity - single exposure
Skin Irrit. :	:	Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

AIIC - Australian Inventory of Industrial Chemicals

ASTM - American Society for the Testing of Materials

bw - Body weight

CLP - Classification Labelling Packaging Regulation

Regulation (EC) No 1272/2008

CMR - Carcinogen, Mutagen or Reproductive Toxicant

DIN - Standard of the German Institute for Standardisation

DSL - Domestic Substances List (Canada)

ECHA - European Chemicals Agency

EC-Number - European Community number

ECx - Concentration associated with x% response

ELx - Loading rate associated with x% response

EmS - Emergency Schedule

ENCS - Existing and New Chemical Substances (Japan)

ErCx - Concentration associated with x% growth rate response

GHS - Globally Harmonized System

GLP - Good Laboratory Practice

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

 $\operatorname{IBC}$  - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IC50 - Half maximal inhibitory concentration

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ICAO - Inter	national Civil Aviation	on Organization	
IECSC - Inve	entory of Existing C	hemical Substand	ces in China
IMDG - Inter	national Maritime D	Dangerous Goods	i
IMO - Interna	ational Maritime Or	ganization	
ISHL - Indus	strial Safety and He	alth Law (Japan)	
ISO - Interna	ational Organisatior	n for Standardizat	ion
KECI - Korea	a Existing Chemica	ls Inventory	
LC50 - Letha	al Concentration to	50 % of a test po	pulation
LD50 - Letha	al Dose to 50% of a	test population (	Median Lethal Dose)
MARPOL - I	nternational Conve	ntion for the Prev	ention of Pollution from Ships
n.o.s Not (	Otherwise Specified	k	
NO(A)EC - N	No Observed (Adve	erse) Effect Conce	entration
NO(A)EL - N	lo Observed (Adve	rse) Effect Level	
NOELR - No	Observable Effect	Loading Rate	
NZIoC - New	v Zealand Inventory	of Chemicals	
OECD - Org	anization for Econd	mic Co-operation	and Development
OPPTS - Off	fice of Chemical Sa	fety and Pollution	Prevention
PBT - Persis	stent, Bioaccumulat	ive and Toxic sub	ostance
	lippines Inventory c tivity Relationship	of Chemicals and	Chemical Substances (Q)SAR - (Quantitative)
			European Parliament and of the Council concern- nd Restriction of Chemicals
RID - Regula	ations concerning th	ne International C	arriage of Dangerous Goods by Rail
SADT - Self-	Accelerating Deco	mposition Tempe	rature
SDS - Safety	y Data Sheet		
SVHC - subs	stance of very high	concern	
TCSI - Taiwa	an Chemical Substa	ance Inventory	
TECI - Thaila	and Existing Chemi	icals Inventory	
TRGS - Tecl	hnical Rule for Haz	ardous Substance	es
TSCA - Toxi	c Substances Cont	rol Act (United St	ates)
UN - United	Nations		
vPvB - Very	Persistent and Ver	y Bioaccumulative	e
Further info			
Other inform	ation	: No data availa	able
	ey data used to Material Safety	: Information pro	ovided by the supplier

Information which has been : Updated section / sections:



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added, deleted or revised

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.