

EU safety data sheet

Trade name: Methotrexate medac 50 mg/ml solution for injection (methotrexate)

Current version : 1.1.0, issued: 21.12.2022

Replaced version: 1.0.0, issued: 19.12.2019

Region: GB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

Methotrexate medac 50 mg/ml solution for injection (methotrexate)

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

Relevant identified uses of the substance or mixture

Ready-made medicinal product/solution for injection

Function of the substance/mixture:

Cytostatic from the pharmacotherapeutic group: Antineoplastic agents/

Antimetabolites/Folic acid analogues, ATC code: L01BA01.

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

medac Gesellschaft für klinische Spezialpräparate mbH

Theaterstrasse 6

22880

Wedel

Germany

Telephone no. +49-4103-8006-0

Fax no. +49-4103-8006-100

Information provided by / telephone

Product Safety

Health, Safety & Environment (HSE)

productsafety@medac.de

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49-551-192-40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Muta. 1B; H340

Repr. 1B; H360FD

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**Hazard pictograms**

GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

methotrexate

Hazard statement(s)

H340

May cause genetic defects.

H360FD

May damage fertility. May damage the unborn child.

Precautionary statement(s)

P201

Obtain special instructions before use.

P202

Do not handle until all safety precautions have been read and understood.

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P280 Wear protective gloves/protective clothing/eye protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.

Supplemental label elements

"Restricted to professional users"

Labelling information

Ready-made medicinal preparations are not ruled by the chemical act, so that the submission of a Safety Data Sheet is not obligatory. medac, however, opts for this form because the Safety Data Sheet constitutes a reliable source of information regarding the handling of hazardous substances and preparations, and because many occupational safety measures are basing on the Safety Data Sheet structure.

2.3 Other hazards

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	methotrexate		
	59-05-2 200-413-8 - -	Acute Tox. 3; H301 Eye Irrit. 2; H319 Muta. 1B; H340 Repr. 1B; H360FD Skin Irrit. 2; H315 STOT SE 3; H335	5.00 wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

Acute toxicity estimate (ATE) values

No	oral	dermal	inhalative
1	135 mg/kg bodyweight		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

First aid assistant: Pay attention to self protection!

After inhalation

Ensure supply of fresh air. Call a doctor immediately.

After skin contact

Remove contaminated clothing immediately and dispose of safely. Launder clothes before reuse. In case of contact with skin wash off immediately with copious amounts of water. Call a doctor immediately.

After eye contact

In case of contact with eyes rinse thoroughly with water. Remove contact lenses if present and easy to do. Continue rinsing. Call a doctor immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

To the best of our knowledge both acute and delayed symptoms and effects due to improper handling of this preparation have not been investigated.

4.3 Indication of any immediate medical attention and special treatment needed

Show Safety Data Sheet, expert information or product insert.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Unsuitable extinguishing media

For this product no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

None known.

5.3 Advice for firefighters

Stay in the danger area only with self-contained breathing apparatus. Prevent skin and eye contact by keeping a safe distance or by wearing suitable protective clothing. Run-off water from fire fighting must not be discharged into drains or enter surface water.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Evacuate, cordon and mark the contaminated area as following:

"Caution cytostatic accident – do not enter"

Protection equipment for removal of unintentional contamination or in the event of rupture:

- overshoes
- liquid-proof protective long-sleeved coat with close-fitting sleeve-bands
- protective goggles with side protection shield
- protective gloves
- protective face mask with combination filter A2-P3 according to the provisions of the professional organisation "Rules for use of breathing apparatuses"
- cut cellulose in sufficient quantity
- receptacle and waste container, shovel.

For emergency responders

Personal protective equipment (PPE) - see section 8. Keep unprotected persons away.

6.2 Environmental precautions

Do not allow to enter drains.

6.3 Methods and material for containment and cleaning up

Remove immediately and appropriately soiling. A further spreading of spillage on the floor with footwear has to be avoided.

Keep ready a decontamination kit.

Take-up of liquid drugs spill. Cover contaminated area carefully using disposable cloth or cellulose, so that the liquid is completely absorbed.

Take-up of dry solid matters:

Cover contaminated area carefully with several layers of cellulose over its whole surface and wet the cellulose cautiously from above.

A dispersal (draught) must be avoided.

Take-up of glass breakage:

Use of suitable means and use of an additional pair of protective gloves.

Clean thoroughly contaminated areas.

Place the whole absorbed and contaminated material in a sealable, labelled container for disposal as hazardous waste according to local regulations (see also Section 13).

Ensure adequate ventilation.

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Avoid formation of aerosols. Open and handle container with care. Only qualified and trained persons are authorised to handle.

General protective and hygiene measures

An antechamber equipped with separated storage facilities must exist for changing (protective clothes and normal clothes) before the working space (lock).

Advice on protection against fire and explosion

Void.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Store in the dark. Store container dry, tightly closed in the original box. Do not store beyond 25 °C! Store in a locked cabinet with access restricted to technical experts or their assistants.

Recommended storage temperature

Value 15 - 25 °C

Storage stability

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Comments see expiry date

7.3 Specific end use(s)**Recommendations**

Apart from the uses mentioned in Section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No parameters available for monitoring.

8.2 Exposure controls**Appropriate engineering controls**

Handling of cytostatics / virusstatics calls always for separated, clearly marked working spaces in an adequate safety cabinet in compliance with the respective national Guidelines/Recommendations for Safe Handling of Cytotoxic Drugs.

Personal protective equipment**Respiratory protection**

If ventilation insufficient, use a respiratory protection apparatus. Short term: filter apparatus, combination filter A2-P3

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Disposable gloves with long gauntlet and, if possible, revolving sleeve made of natural Latex, PVC or synthetics with tight closing band around the gauntlet (i.e. Biogel®Standard; Biogel®Skinsense™ or Biogel®Indicator)

- unpowdered, poor protein content, close-fitting, firm surface
- quality requirements according to EN 374
- finger area designed with double wall thickness
- advantageous: dyed gloves
- material thickness > 0.2 mm
- recommendation: wearing of two pairs of gloves (i.e. Biogel®Indicator™)
- for safe handling of Cytotoxic Drugs protective gloves must be changed every 30 minutes.

Other

Liquid-proof protective long-sleeved coat with close-fitting sleeve-bands obligatory.

Environmental exposure controls

Do not empty into drains.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****State of aggregation**

liquid

Form

Solution

Colour

Clear, yellow and orange-yellow, respectively

Odour

odourless

pH value

Value

7.0

-

9.0

Reference temperature

20

°C

Boiling point / boiling range

No data available

Melting point/freezing point

No data available

Decomposition temperature

No data available

Flash point

Not applicable

Ignition temperature

No data available

Flammability

No data available

Lower explosion limit

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No data available			
Upper explosion limit			
No data available			
Vapour pressure			
No data available			
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	appr.	1.05	mg/ml
Reference temperature		20	°C
Solubility in water			
Comments	completely soluble		
Solubility			
Comments	Soluble in: 5% glucose or 0.9% sodium chloride solution.		
Partition coefficient n-octanol/water (log value)			
No data available			
Kinematic viscosity			
No data available			
Particle characteristics			
No data available			

9.2 Other information

Other information	
No data available.	

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Storage above 25 °C; light

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Nitrogen oxides, carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity (result of the ATE calculation for the mixture)			
No	Product Name		
1	Methotrexate medac 50 mg/ml solution for injection (methotrexate)		
Comments		The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).	
Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	methotrexate	59-05-2	200-413-8
LD50		135	mg/kg bodyweight
Species		rat	
Source		medac	

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Acute dermal toxicity			
No data available			
Acute inhalational toxicity			
No data available			
Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	methotrexate	59-05-2	200-413-8
Source		medac	
Evaluation		irritant	
Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	methotrexate	59-05-2	200-413-8
Source		medac	
Evaluation		Irritating to eyes	
Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	methotrexate	59-05-2	200-413-8
Route of exposure		respiratory tract	
Source		medac	
Evaluation		non-sensitizing	
Route of exposure		Skin	
Source		medac	
Evaluation		non-sensitizing	
Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	methotrexate	59-05-2	200-413-8
Source		medac expert information	
Evaluation/classification		Methotrexate induces gene and chromosome mutations in vitro and in vivo. A mutagenic effect is suspected in humans.	
Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	methotrexate	59-05-2	200-413-8
Source		medac expert information	
Evaluation/classification		Teratogenic effects have been observed in 4 species (rat, mouse, rabbit, cat). There is evidence of a teratogenic risk in pregnant women.	
Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	methotrexate	59-05-2	200-413-8
Source		medac expert information	
Evaluation/classification		Long-term studies in rats, mice and hamsters did not provide any evidence of a carcinogenic potential of methotrexate.	
STOT - single exposure			
No data available			
STOT - repeated exposure			
No data available			
Aspiration hazard			
No data available			

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)	
No data available	
Toxicity to fish (chronic)	
No data available	
Toxicity to Daphnia (acute)	
No data available	

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Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

Other adverse effects

Product is water hazardous (see Section 15.1).

12.8 Other information

Other information

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Product residues have to be disposed of according to national and regional regulations in each the latest versions.

- Collection and disposal of cytostatics or contaminated materials have to be performed in compliance with the European Waste Catalogue (EWC code). In addition the respective local waste rules in their latest version have to be followed.
- Cytostatic residues belong to the type of waste requiring special supervision Cytostatic residues include original receptacles that are not completely emptied, expired CMR drugs in original packing as well as residual solutions in infusion systems. Infusion systems (Infusion set and infusion container) must not be disconnected but have to be disposed of completely as unit.
- Cytostatic residues have in the EWC the code 180108* (*: cytotoxic and cytostatic waste, for incineration only). They have to be collected separately in type-approved, pierce-resistant, unbreakable, tightly closing disposable containers. They have to be clearly labelled to identify that they are suitable for and contain cytotoxic and cytostatic waste. They have to be delivered, together with a certified proof of disposal, to a special waste incineration plant. The provisions of the respective waste and transport legislation have to be followed.
- Materials which are only slightly contaminated with cytostatics (emptied containers and application systems, disposable protective clothing etc.) are considered waste of the category 180104 EWC (wastes whose collection and disposal is not subject to special requirements in order to prevent infection) and are classified as being in need for monitoring during elimination. The collection shall be performed in tearproof, moisture-resistant and tight containers, safely sealed for transport. For reasons of occupational safety the waste has to be delivered to certified plants for incineration without external pretreatment.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

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No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

Transport cytostatics only in unbreakable, liquid-proof and tightly closed containers. Marking of transport containers: name and address of patient or surgery or hospital ward
label: "Caution cytostatics"
if necessary label "Store refrigerated"
if necessary label: "Caution breakable glass" and add instructions for the event of breakage
heat-sealing of primary containers is recommended; Heat-sealing of primary containers recommended.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3
The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	methotrexate	59-05-2	200-413-8	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Observe employment restrictions for child bearing mothers and nursing mothers in their latest version.
Observe employment restrictions for young people in their latest version.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Further information

Further drug-specific information can be found in the product insert accompanying this product or in the expert information.
The information is based on our current knowledge however it does not represent a guarantee of product properties nor does it create any legal obligation.

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.
Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Creation of the safety data sheet

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Prod-ID 762145

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