

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.10 Revision Date 20.02.2025 Print Date 04.05.2025

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1 Product identifiers

Product name : Dihydrofolate Reductase Assay Kit

Product Number : CS0340 Brand : Sigma

REACH No. :

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

Identified uses : Laboratory chemicals, Manufacture of substances

Uses advised against : For R&D use only. Not for pharmaceutical, household or other

uses.

1.3

CHEMIKART

1.4 Emergency telephone

Emergency Phone # : 000 800 1007 141 (CHEMTREC)

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity, (Category 3) H301: Toxic if swallowed.

Skin irritation, (Category 2) H315: Causes skin irritation.

Eye irritation, (Category 2) H319: Causes serious eye irritation.

Reproductive toxicity, (Category

1B)

H360FD: May damage fertility. May

damage the unborn child.

Specific target organ toxicity - single exposure, (Category 3),

H335: May cause respiratory irritation.

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2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal Word Danger

Hazard Statements

H301 Toxic if swallowed. H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H360FD May damage fertility. May damage the unborn child.

Precautionary Statements

P202 Do not handle until all safety precautions have been read and

understood.

P261 Avoid breathing mist or vapors.
P264 Wash skin thoroughly after handling.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

Supplemental Hazard none

Statements

Reduced Labeling (<= 125 ml)

Pictogram

Signal Word Danger

Hazard Statements

H301 Toxic if swallowed.

H360FD May damage fertility. May damage the unborn child.

Precautionary Statements

P202 Do not handle until all safety precautions have been read and

understood.

P264 Wash skin thoroughly after handling.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Supplemental Hazard

Statements

none

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

Refer to component SDS

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SECTION 4: First aid measures

Refer to component SDS

SECTION 5: Firefighting measures

Refer to component SDS

SECTION 6: Accidental release measures

Refer to component SDS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage stabilityRecommended storage temperature -20 °C

Storage class

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

Refer to component SDS

SECTION 9: Physical and chemical properties

Refer to component SDS

SECTION 10: Stability and reactivity

Refer to component SDS

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SECTION 11: Toxicological information

Refer to component SDS

SECTION 12: Ecological information

Refer to component SDS

SECTION 13: Disposal considerations

Refer to component SDS

SECTION 14: Transport information

14.1 UN number

ADR/RID: 3316 IMDG: 3316 IATA: 3316

14.2 UN proper shipping name

ADR/RID: CHEMICAL KIT IMDG: CHEMICAL KIT IATA: Chemical kit

14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

Tunnel restriction code : (E)

Further information : No data available

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Refer to component SDS

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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SECTION 16: Other information

Kit Components:

Dihydrofolate Reductase Sigma D6566 Methotrexate hydrate Sigma-Aldrich 06564 Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2; Repr. 1B; H301, H315, H319, H360FD Skin Irrit. 2; Eye Irrit. 2; STOT Dihydrofolic acid Sigma D7006 SE 3; H315, H319, H335 **β-Nicotinamide adenine** Sigma N6505 dinucleotide 2'phosphate reduced tetrasodium salt hydrate

A5603

Assay buffer 10x for dhfr Sigma

Full text of other abbreviations

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; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. -Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS -Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

| Classification of the | Classification procedure: | |
|-----------------------|---------------------------|--------------------|
| Acute Tox.3 | H301 | Calculation method |
| Skin Irrit.2 | H315 | Calculation method |
| Eye Irrit.2 | H319 | Calculation method |

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Repr.1B H360FD Calculation method STOT SE3 H335 Calculation method

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Kit Components:

| Dihydrofolate Reductase | | | | | |
|-------------------------|-----------|--------|------------|---------------|------------------|
| Product | Pictogram | Signal | Hazard | Precautionary | Supplemental |
| identifier | | Word | Statements | Statements | information |
| Sigma - | | | | | No hazard |
| D6566 | | | | | pictogram, no |
| | | | | | signal word, no |
| | | | | | hazard |
| | | | | | statement(s), no |
| | | | | | precautionary |
| | | | | | statement(s) |
| | | | | | required. |

| Methotrexate | hydrate | | | | |
|---------------|-----------|--------|-----------------|-------------------|--------------|
| Product | Pictogram | Signal | Hazard | Precautionary | Supplemental |
| identifier | | Word | Statements | Statements | information |
| Sigma-Aldrich | | Danger | Toxic if | Do not handle | |
| - 06564 | | | swallowed. | until all safety | |
| | | | Causes skin | precautions | |
| | | | irritation. | have been read | |
| | | | Causes serious | and understood. | |
| | | | eye irritation. | IF SWALLOWED: | |
| | | | May damage | Immediately call | |
| | | | fertility. May | a POISON | |
| | | | damage the | CENTER/ doctor. | |
| | | | unborn child. | Wash skin | |
| | | | | thoroughly after | |
| | | | | handling. IF ON | |
| | | | | SKIN: Wash | |
| | | | | with plenty of | |
| | | | | water. Wear | |
| | | | | protective | |
| | | | | gloves/ | |
| | | | | protective | |
| | | | | clothing/ eye | |
| | | | | protection/ face | |
| | | | | protection. IF IN | |
| | | | | EYES: Rinse | |
| | | | | cautiously with | |
| | | | | water for | |
| | | | | several minutes. | |
| | | | | Remove contact | |
| | | | | lenses, if | |
| | | | | present and | |
| | | | | easy to do. | |
| | | | | Continue | |
| | | | | rinsing. | |

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| Dihydrofolic a | cid | | | | |
|------------------|-----------|---------|--|---|--------------|
| Product | Pictogram | Signal | Hazard | Precautionary | Supplemental |
| identifier | | Word | Statements | Statements | information |
| Sigma - D7006 | | Warning | Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. | Avoid breathing dust. IF ON SKIN: Wash with plenty of water. Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection. | Information |

| β-Nicotinamide adenine dinucleotide 2'-phosphate reduced tetrasodium salt hydrate | | | | | |
|---|-----------|--------|------------|---------------|------------------|
| Product | Pictogram | Signal | Hazard | Precautionary | Supplemental |
| identifier | | Word | Statements | Statements | information |
| Sigma - | | | | | No hazard |
| N6505 | | | | | pictogram, no |
| | | | | | signal word, no |
| | | | | | hazard |
| | | | | | statement(s), no |
| | | | | | precautionary |
| | | | | | statement(s) |
| | | | | | required. |

| Assay buffer 10x for dhfr | | | | | |
|---------------------------|-----------|----------------|----------------------|-----------------------------|--|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| Sigma - A5603 | | | | | No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. |

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