

SAFETY DATA SHEET

Version: 2

Revision Date: 01/16/24

SECTION 1: PRODUCT IDENTIFICATION

Methotrexate-D3 **Product Name:** ESS0532 Catalog No.:

For laboratory research purposes Product Use:

SECTION 2: HAZARDS IDENTIFICATION

WHMIS Classification: D1B: Toxic material causing immediate and serious toxic effects. Toxic by ingestion.

GHS Classification: Acute toxicity, oral (Category 3)

GHS Label elements

Pictogram: Signal word: Danger

Hazard statement:

H301: Toxic if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation.

H341: Suspected of causing genetic defects. H360: May damage fertility or the unborn child.

P201: Obtain special instructions before use. Precautionary statement:

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

P264: Wash (hands) thoroughly after handling P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/ face protection.

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Response statements:

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.

No data available. Other hazards:

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methyl-d3-amino|benzoyl]-L-glutamic acid; Amethopterin-D3; MTX-D3 Synonyms:

Formula: C₂₀H₁₉D₃N₈O₅ **Molecular Weight:** 457.46 432545-63-6 CAS No.:

SECTION 4: FIRST AID MEASURES

General Advice: Consult a physician. Show this SDS. Move out of dangerous area.

If Inhaled: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and In case of skin contact:

non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin

with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold In case of eye contact:

water may be used. Do not use an eye ointment. Seek medical attention.

Do not induce vomiting. Rinse mouth with water. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible If swallowed:

indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Conditions of flammability: Not flammable or combustible.

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Suitable extinguishing media: Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full Special protective equipment for firefighters:

protective gear. During a fire, toxic gases may be generated by thermal decomposition or combustion.

Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO₂), nitrogen oxides. Hazardous combustion products:

Explosion data: No data available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use proper personal protective equipment as indicated in section 8. Personal precautions:

Environmental precautions: Clean up spills immediately, observing precautions in the Protective Equipment section. Do not let

product enter drains.

Sweep up, and then place into a suitable container for disposal. Methods and materials for containment and cleaning up:

SECTION 7: HANDLING AND STORAGE

Keep away from heat. Keep away from sources of ignition. Avoid formation of dust and aerosols. Provide appropriate exhaust Precautions for safe handling:

ventilation where dust is formed. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice

immediately and show the container or the label. Avoid contact with skin and eyes.

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Conditions for safe storage: Keep of

storage: Keep container tightly closed in a dry and well ventilated place. Ground all equipment containing material. Recommended storage

temperature 0-5°C.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended

exposure limits.

Personal protective equipment

Respiratory protection: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode

with emergency escape provisions.

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer

surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws

and good laboratory practices. Wash and dry hands.

Eye protection: Wear safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin and body protection: Wear appropriate gloves and clothing to prevent skin exposure.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before break and after the end of work day.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Orange solid Appearance: No data available. Odour: Odour threshold: No data available. :Ha No data available. Melting point/Freezing point: No data available. No data available. Initial boiling point/boiling range: No data available. Flash point: No data available. **Evaporation rate:** No data available. Flammability (solid; gas): Lower flammable/explosive limit: No data available. No data available. Upper flammable/explosive limit: No data available. Vapour pressure: No data available. Vapour density: DMSO Solubility:

Partition coefficient – n-octanol/water:

Autoignition temperature:

Decomposition temperature:

Viscosity:

No data available.

No data available.

No data available.

No data available.

SECTION 10: STABILITY & REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Conditions to avoid:

Possibility of hazardous reactions:
Incompatibilities:

Not available.

No data available.

Strong oxidizing agents.

Hazardous decompositions products: Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO₂), nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available.

Potential health effects: No data available

Inhalation: Toxic if inhaled. May cause respiratory tract irritation.

Skin:Causes skin irritation.Eyes:Causes serious eye irritation.Ingestion:Toxic if swallowed.

Signs and symptoms of exposure: Nausea, Dizziness, Headache, Changes in the blood count, Drowsiness, Gastrointestinal disturbance, Vomiting, Diarrhea,

Fever. Other dangerous properties can not be excluded.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data available.
Persistence and degradability: No data available.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.
Other adverse effects: No data available.

SECTION 13: DISPOSAL CONSIDERATION



Product:

Expert Synthesis Solutions 700 Collip Circle London, ON N6G4X8

647-407-9078 | <u>info@esschemco.com</u>

www.esschemco.com

Dispose in a manner consistent with federal, state, and local regulations.

Dispose of as unused product. Contaminated packaging:

SECTION 14: TRANSPORT INFORMATION

TDG (Canada): UN2811 UN2811 DOT (US): UN2811 IMDG: UN2811 IATA: UN number: UN2811

UN proper shipping name: Methotrexate-D3, toxic solid, organic compound.

Transport hazard class: 6.1 Packing group:

Ship at room temperature. Special precautions:

SECTION 15: REGULATORY INFORMATION

WHMIS CLASS D1B: Toxic material causing immediate and serious toxic effects. Toxic by ingestion. General:

DSL/NDSL (Canada): This product is not listed on the Canadian DSL/NDSL. TSCA (US): This product is not listed on the US EPA TSCA. ECHA (EU): This product is not listed on the EU ECHA.

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 regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Expert Synthesis Solutions shall not be held liable for any damage resulting from handling or from contact with the above product.

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