

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: Methotrexate disodium

Product identifier	
Product name: Methotrexate disodium salt	
Stock number: J66364 CAS Number: 7413-34-5 EC number: 231-022-0	
251-022-0 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757	
Fax. 600-322-4757 Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
Acute Tox. 3 H301 Toxic if swallowed. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS06	
Signal word Danger Hazard statements H301 Toxic if swallowed. Precautionary statements	
P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ P321 Specific treatment (see on this label). P405 Store locked up.	
P50 Dispose of contents/container in accordance with local/regional/national/international regulations. <b>WHMIS classification</b> D1A - Very toxic material causing immediate and serious toxic effects	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I   FRE I   Flammability 1   REACTIVITY I   Physical Hazard 1	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances	
CAS# Description: 7413-34-5 Methotrexate disodium salt Identification number(s): EC number: 231-022-0	
4 First-aid measures	
Description of first aid measures General information Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly.	
Seek immédiate medical advice.	d. on page 2)
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## Product name: Methotrexate disodium salt After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Do not induce vomiting; immediately call for medical help. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Sodium oxide Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Revention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Precautions for safe manuning Handle under dry protective gas. Keep container tightly sealed. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Protect from heat. Store away from water/moisture. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is hygroscopic. Keep container tightly sealed. Protect from humidity and water. Refrigerate Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures General protective and nyglenic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: Yellow Odor: Not determined Odor threshold: Not determined pH-value: Not applicable.

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## Product name: Methotrexate disodium salt

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Change in condition Melting point/Melting range: Not determined   Boiling point/Boiling range: 823 °C (1513 °F)   Sublimation temperature / start: Not determined   Flammability (solid, gaseous) Not determined   Ignition temperature: Not determined   Decomposition temperature: Not determined   Danger of explosion: Not determined   Lower: Not determined   Upper: Not determined   Vapor pressure: Not determined   Density: Not determined   Relative density Not determined   Vapor density Not determined   Vapor density Not determined   Vapor density Not determined   Vapor density Not applicable.   Solubility in / Miscibility with Not applicable.	td. of page 2)
Melfing point/Melting range: Not determined   Boiling point/Boiling range: 823 °C (1513 °F)   Sublimation temperature / start: Not determined   Flammability (solid, gaseous) Not determined   Ignition temperature: Not determined   Auto igniting: Not determined   Danger of explosion: Not determined   Explosion limits: Icover:   Lower: Not determined   Upper: Not determined   Vapor pressure: Not determined   Density: Not determined   Vapor density Not applicable.   Vapor density Not applicable.   Vapor density Not applicable. <td< th=""><th></th></td<>	
Explosion limits: Lower: Not determined   Upper: Not determined   Vapor pressure: Not applicable.   Density: Not determined   Relative density Not determined.   Vapor density Not applicable.   Vapor density Not applicable.   Vapor density Not applicable.   Vapor density Not applicable.   Evaporation rate Not applicable.	
Water: Not determined	
Partition coefficient (n-octanol/water): Not determined.   Viscosity:   dynamic: Not applicable.   kinematic: Not applicable.   Other information No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Water/moisture Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Sodium oxide Nitrogen oxides	
11 Toxicological information   Information on toxicological effects   Acute toxicity:   Toxic if swallowed.   The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.   LD/LC50 values that are relevant for classification: No data   Skin irritation or corrosion: May cause irritation   Eye irritation or corrosion: May cause irritation   Eye irritation or corrosion: May cause irritation   Germ cell mutagenicity: No effects known.   Germ cell mutagenicity: No effects known.   Germ cell mutagenicity: No effects of Chemical Substances (RTECS) contains acute toxicity available from the EPA, IARC, NTP, OSHA or ACGIH.   Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.   Specific target organ system toxicity - repeated exposure: No effects known.   Specific target organ system toxicity - single exposure: No effects known.   Aspiration hazard: No effects known.   Subacute to chronic toxicity: No effects known.   Aspiration hazard: No effects known.   Aspiration hazard: No effects known.   Aspiration at toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undilluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	
14 Transport information	
UN-Number DOT, IMDG, IATA UN2811	
UN proper shipping name DOT IMDG, IATA TOXIC SOLID, ORGANIC, N.O.S. (Methotrexate disodium salt) TOXIC SOLID, ORGANIC, N.O.S. (Methotrexate disodium salt) (Contre	

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Product name: Methotrexate disodium salt		
Transport hazard class(es) DOT	(Contd. of page 3)	
Class Label Class Label IMDG, IATA	6.1 Toxic substances. 6.1 6.1 (T2) Toxic substances 6.1	
Class Label	6.1 Toxic substances. 6.1	
Packing group DOT, IMDG, IATA		
Environmental hazards:	Not applicable.	
Special precautions for user EMS Number:	Warning: Toxic substances F-A,S-A	
Transport in bulk according to Annex II of MARPOL73/78 a		
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (Methotrexate disodium salt), 6.1, III	
product must not be used for commercial purposes or in formul This product is not listed on the Canadian Domestic Substance SARA Section 313 (specific toxic chemical listings) Substan California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not list Prop 65 - Developmental toxicity, male Substance is not list Information about limitation of use: For use only by technical Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the I The conditions of restrictions according to Article 67 and A market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisan Chemical safety assessment: A Chemical Safety Assessment	local/regional/national/international regulations. Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted by or directly under the supervision of a technically qualified individual as defined by TSCA. This lations for commercial purposes. es List (DSL) or the Canadian Non-Domestic Substances List (NDSL). ance is not listed. not listed. isted. isted. ally qualified individuals. <b>REACH Regulations (EC) No. 1907/2006.</b> Substance is not listed. <b>Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the</b> <b>ation for use)</b> Substance is not listed.	
conformance with this Material Safety Data Sheet, or in combin Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -	o other information gathered by them, and should make independent judgement of suitability of this afety of employees. This information is furnished without warranty, and any use of the product not in nation with any other product or process, is the responsibility of the user. (European Agreement concerning the International Carriage of Dangerous Goods by Road) USA -	