



CHEMESIS
PRECISION COMPOUNDS

Product Information Package

Paraxanthine 98% HPLC

The enclosed 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 package is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemesis shall not be held liable for any damage resulting from handling or from contact with the above product.

9/20/26 Ver.1

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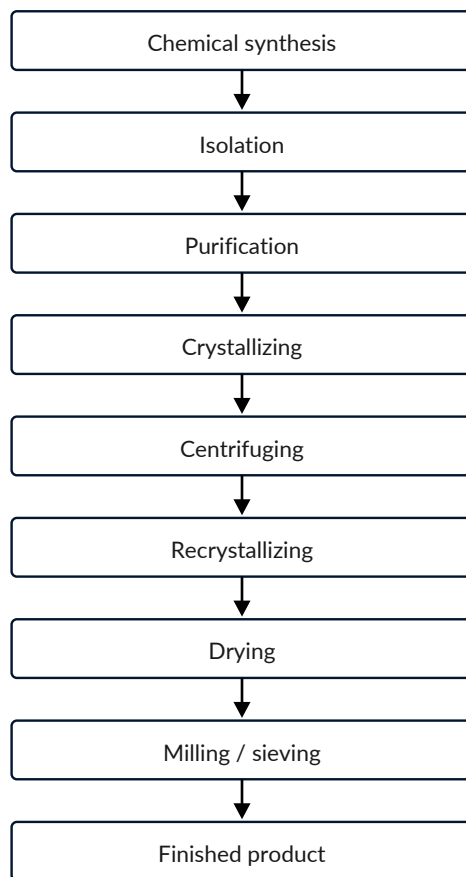
ALLERGEN STATEMENT

Product Name: Paraxanthine 98% HPLC

MAJOR FOOD ALLERGENS	PRESENCE
Bee Pollen and product thereof	No
Celery and products thereof.	No
Lupin and products thereof.	No
Mustard and products thereof.	No
Sesame seeds and products thereof.	No
Sulfur dioxide and Sulphites.	No
Tartrazine and products thereof.	No
Crustaceans, Molluscs, and products thereof.	No
Eggs and products thereof.	No
Fish and products thereof.	No
Peanuts and products thereof.	No
Milk and products thereof (including lactose)	No
Cereals containing gluten, namely: wheat (such as spelt and khorasan wheat), rye, barley, oats or their hybridized strains, and products thereof.	No
Soybeans and products thereof. Except: Vegetable oil derived phytosterols and phytosterol esters from soybean sources; plant stanol ester produced from vegetable oil sterols from soybean sources, not considered as major allergens.	No
Nuts, and products thereof. (Almonds, Hazelnuts, Walnuts, Cashews, Pecan nuts, Hickory nut, Brazil nuts, Pistachio nuts, Macadamia nuts and Queensland nuts, Beech nut, Butternut, Chestnut, Chinquapin, Coconut, Ginkgo nut, Litchee nut, Pine / pinon nut, Sheanut, Pili nut).	No

MANUFACTURE FLOW CHART

Product Name: Paraxanthine 98% HPLC



COMPOSITION STATEMENT

Product Name: Paraxanthine 98% HPLC

We hereby confirm that the above mentioned product contains a minimum of 98% Paraxanthine (1,7-dimethylxanthine) by HPLC. The balance consists of related process impurities inherent to the isolated synthetic product.

GLUTEN FREE STATEMENT

Product Name: Paraxanthine 98% HPLC

We hereby confirm that the above mentioned product is Gluten Free.

NON-GMO STATEMENT

Product Name: Paraxanthine 98% HPLC

We hereby confirm that the above mentioned product; (1) Has not been subject to, or derived from, any technique of genetic modification. (2) Has not used ingredients during preparation or manufacturing that are derived from genetic modification.

COUNTRY OF ORIGIN

Product Name: Paraxanthine 98% HPLC

We hereby confirm that the above mentioned product is manufactured in China.

PRODUCT TARIFF CODE

Product Name: Paraxanthine 98% HPLC

We hereby confirm that the above mentioned product has a H.T.S. Code of 2939.79.0000.

SOLVENT STATEMENT

Product Name: Paraxanthine 98% HPLC

The following solvent(s) have been used during the manufacturing/processing of the above product:

SOLVENT TYPE	Maximum Residue (ppm)
Process solvents	Removed; finished goods meet USP<467>

BSE/TSE STATEMENT

Product Name: Paraxanthine 98% HPLC

We hereby confirm that the above mentioned product is BSE/TSE Free.

FOOD GRADE STATEMENT

Product Name: Paraxanthine 98% HPLC

We hereby confirm that the above mentioned product; (1) Complies with general principles of food law defined in the US Federal Food Drug and Cosmetic Act. (2) Has been produced under hygiene standards in accordance to cGMP.

IRRADIATION & ETO FREE STATEMENT

Product Name: Paraxanthine 98% HPLC

We hereby confirm that the above mentioned product is free of irradiation and is not ETO treated.

VEGAN/VEGETARIAN STATEMENT

Product Name: Paraxanthine 98% HPLC

We hereby confirm that the above mentioned product is suitable for vegans and vegetarians.

STERILIZATION STATEMENT

Product Name: Paraxanthine 98% HPLC

We hereby confirm that the above-mentioned product has been produced in a controlled process where all the equipment are sterilized. No extra sterilization process is needed.

SAFETY DATA SHEET

Section 1: Identification

Product Name: Paraxanthine 98% HPLC

Other means of identification

Substance Name	1,7-Dimethylxanthine (paraxanthine; 3,7-dihydro-1,7-dimethyl-1H-purine-2,6-dione)
Production Source	Chemical synthesis
CAS Number	611-59-6
Molecular Formula	C ₇ H ₈ N ₄ O ₂
Molecular Weight	180.16 g/mol
Recommended use	Bulk ingredient for functional food and dietary-supplement manufacturing; research and further processing.
Supplier Name	Chemesis
Website	www.chemesis.com

Section 2: Hazard(s) Identification

Note 1,7-Dimethylxanthine (paraxanthine) is a caffeine metabolite and adenosine-receptor ligand. Handle with standard laboratory precautions.

Physical hazards	Not classified as a physical hazard
Health hazards	Acute toxicity, oral – Category 4 (ECHA C&L majority)
OSHA hazard(s)	Harmful if swallowed
Hazard symbol	GHS07 (exclamation mark)
Signal word	Warning
Hazard statement	H302 – Harmful if swallowed

Precautionary

Prevention P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. Wear gloves and eye protection.

Response P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

Storage See Section 7

Disposal See Section 13

Section 3: Composition/information on ingredients

Component name	Claimed chemical(s)	Molecular formula	CAS-No.
1,7-Dimethylxanthine	1,7-Dimethylxanthine	C ₇ H ₈ N ₄ O ₂	611-59-6

Section 4: First-aid measures

Inhalation If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

Skin contact In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Eye exposure In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.

Ingestion If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Most important symptoms/effects, acute and delayed As described in Section 2 & Section 11

Section 5: Fire-fighting measures

Flash point No data available

Explosive limits No data available

Autoignition point No data available

Suitable extinguishing media Water spray, carbon dioxide, dry chemical powder, or appropriate foam

Unsuitable extinguishing media Unknown

Specific hazards No unusual fire or explosion hazards noted

Protective equipment/Fire-fighting As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes

Section 6: Accidental release measures

Personal precautions See Section 2

Methods and materials for containment and clean up Wear a NIOSH/MSHA approved self-contained breathing apparatus and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). Vacuum or sweep up material and place in disposal container. After removal, ventilate contaminated area and flush thoroughly with water.

Section 7: Handling and storage

Precautions for handling Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.

Conditions for storage Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Section 8: Exposure controls/personal protection

Biological limit values No biological exposure limits noted for the ingredient(s)

Exposure guidelines No exposure standards allocated

Appropriate engineering controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Eye/face protection Safety glasses with side shields are recommended. Face shields or goggles may be required if splash potential exists. Maintain eye wash station in work area.

Skin protection Latex disposable gloves are recommended. Working cloth may be necessary for handling significant quantities.

Section 9: Physical and chemical properties

Physical state Solid

Appearance White to off-white powder

Odor Characteristic odor

pH No data available

Melting point 351–352 °C (literature, decomposes)

Boiling point No data available

Flash point No data available

Evaporation rate No data available

Flammability As shown if claimed in Section 2

Vapor pressure No data available

Vapor density No data available

Bulk density This is varied as claimed in COA

Solubility in water Sparingly soluble (~1 mg/mL); freely soluble in hot water

Other solubility Soluble in DMSO and DMF; slightly soluble in ethanol

Autoignition point No data available

Decomposition temp No data available

Viscosity No data available

Section 10: Stability and reactivity

Reactivity No hazards known

Stability Shelf life time under described storage condition in Section 7

Hazardous reactions Unknown
Conditions to avoid Heat, light, moisture
Incompatible materials Strong oxidizing agents
Hazardous decomposition products Carbon dioxide / carbon monoxide

Section 11: Toxicological information

Likely routes of exposure
Skin contact May cause skin irritation. May be harmful if absorbed through the skin.
Eye contact May cause eye irritation.
Inhalation May be irritating to mucous membranes and upper respiratory tract.
Ingestion Harmful if swallowed. Pharmacologic effects similar to other dimethylxanthines (CNS stimulation, adenosine-receptor antagonism).
Acute toxicity Acute Tox. 4, oral (H302). Quantitative LD50 for the neat solid is not well established.
Chronic toxicity No IARC classification for paraxanthine. Handle as a bioactive xanthine alkaloid.

Section 12: Ecological information

Ecotoxicity No data available
Degradability No data available
Bioaccumulative potential No data available
Other adverse effects No data available

Section 13: Disposal consideration

Disposal instruction Dispose in accordance with local, state and federal regulations.
Hazardous waste code Not applicable

Section 14: Transport information

DOT / IATA / IMDG Not regulated as a dangerous good for transport as the neat solid.
Other special transport Keep dry. Protect from light. Transport in tightly closed containers.

Section 15: Regulatory information

US EPA SARA Title III Not listed
US EPA CAA, CWA, TSCA Not listed
California Prop 65 Not listed (purchasers should independently verify current listing status).
DSL/NDL Not listed
EEC-directives Not listed
WHMIS This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.
HMIS (USA) Health 2 / Fire 1 / Reactivity 0 / Personal Protection X

Section 16: Other information

Date of issue 09/20/2026
Revision Date n/a
Version # 1.0
Public references ECHA C&L; PubChem CID 4687; Cayman / Sigma product literature

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