

**MATERIAL SAFETY DATA SHEET (MSDS)****XANTHINE (FOR BIOCHEMISTRY) (2,6-DIHYDROXY PURINE)****1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Trade name** : XANTHINE FOR BIOCHEMISTRY

**Identification of the product** : XANTHINE 98%

**CAS No** :69-89-6

Product Coad: X0217700025

**Use** : Industrial. For professional use only.

**2: COMPOSITION AND INFORMATION ON INGREDIENTS**

**Substance / Preparation** : XANTHINE 98%

**CAS No** :69-89-6

Substance.

Contains no other components or impurities which will influence the classification of the product.

**3: HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**Classification EC 67/548 or EC 1999/45**

**Classification** : Xi; R36 R43

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

**Health hazards** : Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317

**Label elements**

**Labelling EC 67/548 or EC 1999/45**

**Symbol(s)** : Xi : Irritant

**R Phrase(s)** : R36 : Irritating to eyes.

R43 : May cause sensitization by skin contact.

**S Phrase(s)** : S36/37 : Wear suitable protective clothing and gloves.

**Labelling Regulation EC 1272/2008 (CLP)**

**Signal words** : Warning

**Hazard statements** : H319 : Causes serious eye irritation.

H317 : May cause an allergic skin reaction.

**Precautionary statements**

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• **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

• **Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and 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.

P333+P313: If skin irritation or rash occurs : Get medical advice.

P363: Wash contaminated clothing before reuse.

• **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Other hazards**

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

**4: FIRST AID MEASURES****4.1. Description of first aid measures**

**Inhalation** : Assure fresh air breathing. Allow the victim to rest.

**Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and

water, followed by warm water rinse. Wash contaminated clothing before reuse.

Wash with plenty of soap and water. If skin irritation or rash occurs : Specific

treatment (see on this label). Get medical advice.

**Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.

**Ingestion** : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms relating to use** : Causes serious eye irritation.

May cause an allergic skin reaction.

**4.3. Indication of any immediate medical attention and special treatment needed**

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

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**Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media** : Do not use a heavy water stream.

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

**5.2. Special hazards arising from the substance or mixture**

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

**5.3. Advice for fire-fighters**

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

**For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

**6.2. Environmental precautions**

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

**Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust.

Store away from other materials.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

**Handling** : Wash thoroughly after handling. Avoid breathing dust, fume, gas, mist, vapours,

spray. Wash contaminated clothing before reuse. Contaminated work clothing

should not be allowed out of the workplace.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container

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closed when not in use.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

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

**Specific end use(s)** : None.

**8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Exposure controls**

**Personal protection** : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear approved mask.
- **Hand protection** : Wear protective gloves.
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

**8.2. Control parameters**

**Occupational Exposure Limits** : No data available.

**9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state at 20 °C** : Solid.

**Colour** : White to slight yellow

**Odour** : Odorless

**Odour threshold** : No data available.

**pH value** : Not applicable.

**Melting point [°C]** : 300 °C

**Decomposition point [°C]** : N/A

**Critical temperature [°C]** : N/A

**Auto-ignition temperature [°C]** : N/A

**Flammability (solid, gas)** : N/A

**Flash point [°C]** : N/A

**Boiling point [°C]** : N/A

**Initial boiling point [°C]** : N/A

**Final boiling point [°C]** : N/A

**Evaporation rate** : N/A

**Vapour pressure [20°C]** : N/A

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Vapour pressure mm/Hg : N/A

Vapour density : 5,3

Density [g/cm<sup>3</sup>] : N/A

Relative density, gas (air=1) : N/A

Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Insoluble in water

Solubility in water : N/A

Log Pow octanol / water at 20°C : No data available.

Solubility : N/A

Viscosity at 40°C [mm<sup>2</sup>/s] : N/A

Explosive properties : N/A

Explosion limits - upper [%] : N/A

Explosion limits - lower [%] : N/A

Oxidising properties : No data available.

**10: STABILITY AND REACTIVITY DATA****10.1. Reactivity**

Reactivity : Not established.

**10.2. Chemical stability**

Chemical stability : Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : Not established.

**10.4. Conditions to avoid**

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Materials to avoid : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

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- **Inhalation** : Based on available data, the classification criteria are not met.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Based on available data, the classification criteria are not met.

**Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : Causes serious eye irritation.

**Sensitization** : May cause an allergic skin reaction.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Toxic for reproduction** : Based on available data, the classification criteria are not met.

**STOT-single exposure** : Based on available data, the classification criteria are not met.

**STOT-repeated exposure** : Based on available data, the classification criteria are not met.

**Aspiration hazard** : Based on available data, the classification criteria are not met.

**12: ECOLOGICAL INFORMATION**

**Toxicity information** : Not established.

**Persistence - degradability** : Biodegradable.

**Bioaccumulative potential** : Not established.

**Mobility in soil** : Not established.

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**Other adverse effects**

**Environmental precautions** : Avoid release to the environment.

**13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

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**General** : Avoid release to the environment. Dispose in a safe manner in accordance with

local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**14: TRANSPORT INFORMATION****14.1. Land transport (ADR-RID)**

**General information** : Not regulated.

**14.2. Sea transport (IMDG) [English only]**

**General information** : Not regulated.

**14.3. Air transport (ICAO-IATA) [English only]**

**General information** : Not regulated.

**15: OTHER REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Safety, health and environmental** : Ensure all national/local regulations are observed.

**regulations/legislation specific for the**

**substance or mixture**

**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

**15.2. Chemical Safety Assessment**

**Chemical Safety Assessment** : It has not been carried out.

**16: OTHER INFORMATION**

**References**: Not available.

Product Use: Laboratory Reagent.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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