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

Catalogue Number	CS-T-30444
Product Name	Kojic Acid
CAS No.	501-30-4
Category	Pesticide Standards
Synonyms	5-Hydroxy-2-hydroxymethyl-4-pyrone 2-Hydroxymethyl-5-hydroxy-gamma-pyrone 2-(Hydroxymethyl)-5-hydroxy-4H-pyran-4-one
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email **sales@clearsynth.com** for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Not available

2.2 Label Elements

Signal Word: Warning

Not available

Hazard Statement(s)

Code	Statement
H351	Not available

Precautionary Statement(s)

Code	Statement
P203	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.

P318	Not available
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Kojic Acid
CAS Number : 501-30-4
Molecular Formula : C■H■O■
Molecular Weight : 142.11
Parent Chemical : -
Synonyms : 5-Hydroxy-2-hydroxymethyl-4-pyrone
2-Hydroxymethyl-5-hydroxy-gamma-pyrone
2-(Hydroxymethyl)-5-hydroxy-4H-pyran-4-one
Concentration : Not available

SECTION 4: First aid measures

Not available

SECTION 5: Firefighting measures

Not available

SECTION 6: Accidental release measures

Not available

SECTION-7: Handling and storage

Not available

SECTION 8: Exposure controls / personal protection

Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	Off white Solid
IR spectrum	No data available
pH	No data available
Solubility	In water

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

Not available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: Acute or subchronic toxicity resulting from an oral dose has not been reported, but convulsions may occur if kojic acid is injected.
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: Animals studies have shown that kojic acid increases the occurrence of thyroid cancer and thyroid adenomas, though it is not known whether this is also true in humans. In F344 rats fed a diet containing 2% kojic acid, after 4 weeks thyroid hyperplasia was apparent in males, associated with a decrease in (125)I uptake into the thyroid gland to only 3% of that in controls; serum T(3) and T(4) levels dropped and TSH increased seven times. On return to the control diet, normal serum T(3), T(4) and TSH levels became evident within 48 hr in both sexes.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: In F344 rats fed a diet containing 2% kojic acid, after 4 weeks thyroid hyperplasia was apparent in males, associated with a decrease in (125)I uptake into the thyroid gland to only 3% of that in controls; serum T(3) and T(4) levels dropped and TSH increased seven times. In females, effects on thyroid weight and (125)I uptake were less prominent, although changes in serum T(3), T(4) and TSH levels were similar to those in males. On return to the control diet, normal serum T(3), T(4) and TSH levels became evident within 48 hr in both sexes.
- Aspiration hazard: No data available.

Likely routes of exposure
- No data available.

Symptoms related to the physical, chemical and toxicological characteristics
- In F344 rats fed a diet containing 2% kojic acid, thyroid hyperplasia was apparent in males after 4 weeks, associated with decreased (125)I uptake into the thyroid gland; serum T(3) and T(4) levels dropped and TSH increased seven times. These effects were reversible on withdrawal of kojic acid, with normal serum T(3), T(4) and TSH levels evident within 48 hr in both sexes.

SECTION 12: Ecological information

Not available

SECTION 13: Disposal considerations

Not available

SECTION 14: Transport information

Not available

SECTION 15: Regulatory information

Not available

SECTION 16: Other information

Not available

DISCLAIMER

This MSDS is system-generated. Please verify and confirm all data, statements, and values with the Support Team before use or distribution.