

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: Kojic Acid

CAS#:

501-30-4

C.I. No.: Not available.

Synonym : 2-Hydroxymethyl-5-hydroxy-γ-pyrone 5-Hydroxy-2-hydroxymethyl-4H-4-pyranone

Chemical Name: Not available.

Chemical Formula: C₆H₆O₄

Composition and Information on Ingredients

Name	S.K.U	% by Weight
Kojic Acid	GCS-3579	100

Hazards Identification

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards : None

First Aid Measures

Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

Fire and Explosion Data

Extinguishing media:

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture
carbon oxides.

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

no data available

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections
For disposal see section 13.

Handling and Storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Specific end uses

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

Exposure Controls/Personal Protection

Control parameters: Components with workplace control parameters

Exposure controls:

Appropriate engineering controls: General industrial hygiene practice.

Personal protective equipment:

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

Physical and Chemical Properties

Information on basic physical and chemical properties

a) Appearance Form

: powder, crystalline

b) Odour	: odourless
c) Odour threshold	: No data available.
d) pH	: Not applicable.
e) Melting point/Freezing point	: 152 - 155 °C - lit.
f) Initial boiling point andboiling range	: No data available.
g) Autoignition temperature	: No data available.
h) Flammability (solid, gas)	: No data available. i)
i) Upper/lower flammability or explosive limits :	
j) No data available. j)	
k) Flash point [°C]	: No data available.
k) Evaporation rate	: No data available.
l) Vapour pressure	: No data available.
m) Vapour density	: No data available.
n) Relative density,	: No data available.
o) Solubility in water	: soluble.
p) Viscosity	: No data available.
q) Explosive properties	: No data available.
r) Oxidising properties	: No data available.
s) Decomposition temperature	: No data available.
t) Autoignition temperature	: No data available.
u) Molecular Weight	: 142,11 g/mol

Other safety information
no data available.

Stability and Reactivity Data

Reactivity : No data available.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No data available.

Conditions to avoid : No data

available. Incompatible

materials : Strong acids, Strong

bases Hazardous

decomposition products

Other decomposition products - no data available

Toxicological Information

Information on

toxicological

effects Acute

toxicity

LD50 Intraperitoneal - mouse - 250 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

Histidine reversion (Ames)

Hamster

Sister chromatid exchange

Carcinogenicity

Carcinogenicity - rat - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Endocrine: Tumors.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (5-Hydroxy-2-hydroxymethyl- 4-pyrone)

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: UQ0875000

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

Ecological Information

Toxicity: No data available.

Persistence - degradability :

No data available.

Bioaccumulative potential :

No data available. Mobility

in soil : No data available.

Results of PBT and vPvB assessment : PBT/vPvB assessment not available
as chemical safety assessment not required/not conducted

Other adverse effects : No data available.

Disposal Considerations

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

Transformation Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]

General information : Not regulated.

Air transport (ICAO-IATA) [English only]

General information : Not regulated.

Other Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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