Material Safety Data Sheet

Section1. Product Information and Company Identification			
Product name	Kojic acid		
Mol.formula	$C_6H_6O_4$	**Cas no**	501-30-4
Mol.wt	142.11 g/mol	**Cat no**	AC01
Manfacture name	Pioneers for laboratory chemicals		
Brand name	Piochem		
Address	Area 540, Industrial Zone 6th October city Giza, Egypt.		
Website	www.piochem.com		
E-mail	info@piochem.com		
Phone number	+201225728304 , +201023932115		

SECTION 2: Hazards identification 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients 3.1 Substances

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

Formula : $C_6H_6O_4$
Molecular weight : 142.11 g/mol
CAS-No. : 501-30-4
EC-No. : 207-922-4

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures 4.1 Description of first aid measures If inhaled

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

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.

4.2 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

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Combustible Solids

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection 8.1 Control parameters 8.2 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.

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 le (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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder, crystalline
b)	Odour	odourless
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/	Melting point/range: 152 - 155 °C - lit. freezing point
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available

j) Upper/lower flammability or explosive limits No data available

k) Vapour pressure No data available

l) Vapour density No data available

m) Relative density No data available

n) Water solubility soluble

o) Partition coefficient: n- octanol/water No data available

p) Auto-ignition temperature No data available

q) Decomposition temperature No data available

r) Viscosity No data available

s) Explosive properties No data available

t) Oxidizing properties No data available

9.2 Other safety information

No data available **SECTION 10: Stability and reactivity**

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong acids, Strong bases

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity

LD50 Intraperitoneal - Mouse - 250 mg/kg(5-Hydroxy-2-hydroxymethyl-4-pyrone)

Skin corrosion/irritation

No data available(5-Hydroxy-2-hydroxymethyl-4-pyrone)

Serious eye damage/eye irritation

No data available(5-Hydroxy-2-hydroxymethyl-4-pyrone)

Respiratory or skin sensitisation
No data available(5-Hydroxy-2-hydroxymethyl-4-pyrone)

Germ cell mutagenicity
Histidine reversion (Ames)(5-Hydroxy-2-hydroxymethyl-4-pyrone)
Hamster(5-Hydroxy-2-hydroxymethyl-4-pyrone) ovary
Sister chromatid exchange

Carcinogenicity
No data available(5-Hydroxy-2-hydroxymethyl-4-pyrone)
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (5-Hydroxy-2-hydroxymethyl-4-pyrone)

Reproductive toxicity
No data available(5-Hydroxy-2-hydroxymethyl-4-pyrone)

Specific target organ toxicity - single exposure
No data available(5-Hydroxy-2-hydroxymethyl-4-pyrone)

Specific target organ toxicity - repeated exposure
No data available **Aspiration hazard**
No data available(5-Hydroxy-2-hydroxymethyl-4-pyrone)

Additional Information
RTECS: UQ0875000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(5-Hydroxy-2-hydroxymethyl-4-pyrone)

SECTION 12: Ecological information 12.1 Toxicity

No data available

12.2 Persistence and degradability
No data available **12.3**
Bioaccumulative potential

No data available

12.4 Mobility in soil
No data available(5-Hydroxy-2-hydroxymethyl-4-pyrone)

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

12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations 13.1 Waste treatment methods Product

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

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information 14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name ADR/RID:
Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -

14.4 Packaging group
ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user
No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out