

SAFETY DATA SHEET

7001

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name KOSTROLITH 5AK

Synonym(s) 7001 - SDS NUMBER • KOSTROLITH 5AK, 1.6-2.5MM • KOSTROLITH 5AK2 • KOSTROLITH MOLECULAR

SIEVES OF TYPE 5A (CANAA, CAA)

1.2 Uses and uses advised against

Use(s) MOLECULAR SIEVE

1.3 Details of the supplier of the product

Supplier name BOC LIMITED (AUSTRALIA)

Address 10 Julius Avenue, North Ryde, NSW, 2113, AUSTRALIA

 Telephone
 131 262, (02) 8874 4400

 Fax
 132 427 (24 hours)

 Website
 http://www.boc.com.au

1.4 Emergency telephone number(s)

Emergency 1800 653 572 (24/7) (Australia only)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

2.2 Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

2.3 Other hazards

No information provided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
ZEOLITE	1318-02-1	215-283-8	>60%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting.

First aid facilities No information provided.



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4.2 Most important symptoms and effects, both acute and delayed

Prolonged exposure to skin may cause dryness.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use extinguishing media to suit materials in the surrounding area. Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases if strongly heated.

5.3 Advice for firefighters

Heating of drums filled with the product may lead to their explosion as a result of the rapid rise in pressure, resulting in spontaneous nitrogen desorption. The heat development that occurs if the material interacts directly with extinguishing water can result in a maximum temperature of 60 K and is therefore insignificant in normal circumstances.

5.4 Hazchem code

None allocated.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Ventilate area where possible.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Contain spillage, then collect and place in suitable containers for disposal. Avoid generating dust.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled and tightly closed when not in use. Store between 0°C and 40°C. Do not store outdoors, or in the event of temporary storage outdoors, protect against precipitation by using water tight tarpaulin or similar.

7.3 Specific end use(s)

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

No exposure standards have been entered for this product.

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended.

ChemAlert.

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PPE

Eye / Face Wear dust-proof goggles. **Hands** Wear PVC or rubber gloves.

Body When using large quantities or where heavy contamination is likely, wear coveralls.

Respiratory Where an inhalation risk exists, wear a Class P1 (Particulate) respirator.





9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance WHITE TO RED/BROWN GRANULAR SOLID

OdourODOURLESSFlammabilityNON FLAMMABLEFlash pointNOT RELEVANTBoiling pointNOT RELEVANT

Melting point> 1000°CEvaporation rateNOT AVAILABLEpH9 to 11 (5 % solution)Vapour densityNOT AVAILABLE

Specific gravity
Solubility (water)
Vapour pressure
Upper explosion limit
Lower explosion limit
Partition coefficient
Autoignition temperature

0.68 to 0.78
INSOLUBLE
NOT AVAILABLE
NOT RELEVANT
NOT RELEVANT
NOT AVAILABLE

Decomposition temperature > 600°C

Viscosity

Explosive properties

Oxidising properties

Odour threshold

NOT AVAILABLE

NOT AVAILABLE

NOT AVAILABLE

9.2 Other information

% Volatiles NOT AVAILABLE

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization will not occur.

10.4 Conditions to avoid

The product absorbs considerable quantities of nitrogen. The absorbed quantity drops quickly as the temperature increases. This may cause a vacuum at low temperatures or pressure at high temperatures. When it reacts with water the product releases a great deal of heat, but the maximum temperature is limited to 60 K.

10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites) and acids (e.g. nitric acid).

10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.



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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Skin Not classified as a skin irritant. Direct contact may cause irritation and drying of the skin.Eye Not classified as an eye irritant. Contact may result in irritation, lacrimation, pain and redness.

Sensitization Not classified as causing skin or respiratory sensitisation.

MutagenicityNot classified as a mutagen.CarcinogenicityNot classified as a carcinogen.ReproductiveNot classified as a reproductive toxin.

STOT – single

exposure

Not classified as causing organ effects from single exposure.

STOT – repeated

exposure

Not classified as causing organ effects from repeated exposure.

Aspiration Not classified as causing aspiration.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

This product is neutral to the environment under normal conditions because of its chemical and biological inertness. Acidic media may cause chemical decomposition with the release of soluble aluminium salts and colloidal silicic acid. As a result of its ion exchange properties, the product may trap heavy metals.

12.2 Persistence and degradability

No biological degradation of the product may be expected. The only degradation pathway known to date is slow hydrolysis, particularly in acidic media.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No mobility of the material in the natural environment should be expected.

12.5 Other adverse effects

Not expected to cause harm to the environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal Ensure product is covered with moist soil to prevent dust generation and dispose of to approved Council

landfill. Contact the manufacturer/supplier for additional information (if required).

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None Allocated	None Allocated	None Allocated
14.2 Proper Shipping Name	None Allocated	None Allocated	None Allocated
14.3 Transport hazard class	None Allocated	None Allocated	None Allocated
14.4 Packing Group	None Allocated	None Allocated	None Allocated

14.5 Environmental hazards No information provided

14.6 Special precautions for user



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Hazchem code None Allocated

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Poison schedule

Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous

Substances [NOHSC: 1008(2004)].

None allocated. **Hazard codes** Risk phrases None allocated. None allocated. Safety phrases

AUSTRALIA: AICS (Australian Inventory of Chemical Substances) Inventory listing(s)

All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information

This product is manufactured by: Chemiewerk Bad Kostritz GmbH. Address: Heinrichshall 2, D-07586 Bad Kostritz, GERMANY Phone: +49 36605 81-0.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

> Chemical Abstract Service number - used to uniquely identify chemical compounds CAS#

CNS Central Nervous System

EC No - European Community Number EC No.

Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous **EMS**

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide **IARC** International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre OEL Occupational Exposure Limit

relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly pΗ

alkaline).

Parts Per Million ppm

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure) STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia TLV Threshold Limit Value TWA Time Weighted Average

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Revision history

Revision	Description
2.1	Standard SDS Review
2.0	Standard SDS Review
1.0	Initial SDS creation

Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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[End of SDS]



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