

1. Identification of the material and supplier

Product Name:	MOLECULAR SIEVE 4A (ECO-1036) MOLECULAR SIEVE 5A (ECO-1036-5A) MOLECULAR SIEVE 13X (ECO-1036-13X)
Other Name(s):	As above
Recommended Use and Restrictions on Use:	Used as a gas drying and scrubbing medium. No specific RESTRICTIONS ON USE
Supplier:	Acoem Australasia
ABN:	32 005 752 081
Street Address:	1492 Ferntree Gully Road, Knox field, Victoria 3180, AUSTRALIA
Telephone Number:	+61 3 9730 7800
Emergency Number:	13 11 26 Poisons Information Centre 24x7

2. Hazard(s) Identification

2.1 Classification of the substance or mixture

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Based on available information, not classified as hazardous according to criteria of Safe Work Australia; NON-HAZARDOUS SUBSTANCE.

2.2 Label elements

Signal Word	NONE REQUIRED
Pictogram:	NONE REQUIRED
Hazard Statements:	NONE REQUIRED
Precautionary Statements:	NONE REQUIRED

2.3 Other Hazards

The product is very adsorbent and may have a drying effect on skin and eyes.

In contact with water heat development and therefore burning of the skin and mucous membrane is possible.
This product contains ~ 1 % quartz which is part of a natural raw material.

3. Composition and Information on Ingredients

3.1 Substances/Mixtures

Chemical characterisation : Mixtures

Description: Crystalline aluminosilicate with binders.

MOLECULAR SIEVE 4A (ECO-1036)

Components	CAS Number	Proportion
zeolite (crystalline aluminosilicate)	1318-02-1	>99%
Quartz	14808-60-7	<1%

MOLECULAR SIEVE 5 (ECO-1036-5A)

Components	CAS Number	Proportion
Molecular Sieves (5A)	69912-79-4	100%
No components need to be disclosed according to the applicable regulations		

MOLECULAR SIEVE 13X (ECO-1036-13X)

Components	CAS Number	Proportion
zeolite (crystalline aluminosilicate)	1318-02-1	100%

4. First Aid Measures

For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

4.1 Description of first aid measures

General Information	No special measures required.
After Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention in case of complaints.
After Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention in case of complaints
After Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention in case of complaints
After Ingestion	Clean mouth with water. Get medical attention in case of complaints.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available

5. Fire Fighting Measures

5.1 Suitable extinguishing equipment

Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam. Use fire extinguishing methods suitable to surrounding conditions.

5.2 Specific hazards arising from the chemical

If this product is involved in a fire, the following can be released:

Calcium oxide
Silicon oxide
Sodium oxide
Aluminium oxide

5.3 Special protective equipment and precautions for fire-fighters

Wear personal protective equipment.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Sweep the spill area; avoid raising dust.

6.4. Reference to others sections

No dangerous substances are released.

See Section 7 for information on safe handling.

7. Handling and Storage

7.1. Precautions for safe handling

- Keep receptacles tightly sealed.
- Provide suction extractors if dust is formed.
- Any unavoidable deposit of dust must be regularly removed. Prevent static electric sparks.

Information about fire - and explosion protection:

Earth container to avoid electric sparks, especially in contact with flammable substances. The product is not flammable.

7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

- No special requirements.

Information about storage in one common storage facility:

- Store away from foodstuffs.

Further information about storage conditions:

- Store in dry conditions - protect from humidity and water
- This product is hygroscopic.
- Keep container tightly sealed.

7.3. Specific end use(s)

No further relevant information available.

8. Exposure Controls and Personal Protection

8.1. Control parameters

Exposure Standards

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Respiratory	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type P1 dust masks.
Eyes	Safety Glasses.
Skin	Use impervious gloves - nitrile rubber (NBR) Check gloves prior to use. Penetration time of glove material (in minutes) 480 Glove thickness 0.11mm
Engineering controls	None specified
Other Work Practices	None specified

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Form: Solid Beads Colour: Beige
Odour	Odourless
Odour threshold	No data available
pH-value at 20 °C	7-11

Melting point / freezing point	>400 °C (Zeolite, OECD TG 102)
Initial boiling point and boiling range	No data available
Flash Point	No data available
Evaporation rate (Ether = 1)	No data available
Flammability (solid, gas)	Product is not flammable.
Upper/lower flammability or explosive limits	No data available
Vapour pressure (Pa)	No data available
Vapour Density	No data available
Specific Gravity	No data available
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity (cSt)	No data available

9.2 Other Information

No other relevant information.

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

Avoid moisture.

10.5. Incompatible materials

Hydrogen fluoride, Strong Acids, Strong bases.

10.6. Hazardous decomposition products

If this product is involved in a fire, the following can be released:

Calcium oxide

Silicon oxide

Sodium oxide

Aluminium oxide

In the event of fire: see section 5.

11. Toxicological Information

Classification	Category	Hazard description
Acute toxicity (oral)	---	No data available
Acute toxicity (dermal)	---	No data available
Acute toxicity (inhalation)	---	No data available
Skin corrosion/irritation	---	No data available
Serious eye damage/irritation	---	No data available
Respiratory sensitization	---	No data available
Skin sensitization	---	No data available
Germ cell mutagenicity	---	No data available
Carcinogenicity	---	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	---	No data available
STOT-single exposure	---	No data available
STOT-repeated exposure	---	No data available
Aspiration hazard	---	No data available

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

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.

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.

13. Disposal Considerations

13.1. Waste treatment methods

Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with the relevant local legislation.

14. Transport Information

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

UN Number	None
Proper Shipping Name	None
Transport hazard class	None
Packing Group	None-
Environmental hazards for Transport Purposes	None
Special precautions for user	None

Additional Information	None
HAZCHEM or Emergency Action Code	None

15. Regulatory Information

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

Poisons Schedule	None
Chemicals inventory (AICS)	On the inventory, or in compliance with the inventory

16. Other Information

This safety data sheet has been prepared by Acoem Australasia

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Acoem cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

REVIEW DATE: 12-Jan-2023