



Safety Data Sheet

according to WHS Regulations

Printing date 13.03.2019

Revision: 13.03.2019

1 Identification

Product Name: MOLECULAR SIEVE TYPE 3A**Other Means of Identification:** Mixture**Recommended Use of the Chemical and Restriction on Use:**

As a desiccant adsorbing moisture in compressed air supplies, dehumidifiers and dry air purging systems and as a static moisture absorber for general moisture adsorbing applications.

Details of Manufacturer or Importer:

Enviro-Tronics
Unit 3, 175 Briens Rd
Northmead NSW 2152

Phone Number: 02 9630 5277**Emergency telephone number:** 0413 943 153

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



corrosion

Skin Corrosion/Irritation 1B H314 Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.

Signal Word Danger**Hazard Statements**

H314 Causes severe skin burns and eye damage.

Precautionary Statements

P260 Do not breathe dusts or mists.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 7631-86-9	Silica	Carcinogenicity 1A, H350i; STOT RE 1, H372	<60%
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CAS: 1344-28-1	Aluminium oxide (Al ₂ O ₃)		<40%
CAS: 1313-59-3	Sodium oxide	 Skin Corrosion/Irritation 1B, H314	<30%
CAS: 12136-45-7	Dipotassium oxide	 Skin Corrosion/Irritation 1B, H314	<15%

Additional information:

The value given for silica represents the total value, not the respirable fraction. This product may contain small quantities of respirable silica. Respirable crystalline silica is a known carcinogen and can cause serious lung damage. Exposure to this product is not likely to cause harm under normal conditions, but it is recommended to determine the actual exposure through workplace testing.

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation, coughing and chest pain. High levels of exposure may cause fatigue, chest pain, shortness of breath and lung damage.

Skin Contact: Causes severe skin burns. This product becomes hot in contact with water and can cause thermal burns.

Eye Contact: Causes serious eye damage. This product becomes hot in contact with water and can cause thermal burns.

Ingestion: May cause burns or irritation to the mouth, throat and stomach. This product becomes hot in contact with water and can cause thermal burns.

5 Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical and sand.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include toxic fumes.

Not combustible. Will not burn or support combustion.

Containers close to fire should be removed only if safe to do so.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved dust/mist respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

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Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and sweep granules into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Wash site of spillage thoroughly with water and detergent.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Prevent formation of dust.

Empty containers may contain hazardous residues; treat with caution.

Food, beverages and tobacco products should not be stored or consumed where this material is in use.

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use and when empty.

Protect from physical damage and moisture. This product becomes hot in contact with water. Keep away from water, halocarbons, ethylene oxide, oxygen difluoride, vinyl acetate, strong oxidizing agents, magnesium, manganese trifluoride, sodium, xenon hexafluoride and hydrofluoric acid.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 7631-86-9 Silica**NES TWA: 2 mg/m³**CAS: 1344-28-1 Aluminium oxide (Al₂O₃)**NES TWA: 10 mg/m³**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

Respiratory Protection:

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Solid
Colour:	Tan
Odour:	Odourless

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Odour Threshold:	Not determined.
pH-Value:	8 - 11
Melting point/freezing point:	Not determined.
Initial Boiling Point/Boiling Range:	Not determined.
Flash Point:	Not applicable
Flammability:	Non combustible solid.
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	Not determined.
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	Not applicable.
Density:	Not determined.
Relative Density at 20 °C:	0.5 - 0.8 g/cm ³
Vapour Density:	Not applicable.
Evaporation Rate:	Not applicable
Solubility in Water:	Insoluble
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.
This product becomes hot in contact with water.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Excessive moisture.

Incompatible Materials:

Water, halocarbons, ethylene oxide, oxygen difluoride, vinyl acetate, strong oxidizing agents, magnesium, manganese trifluoride, sodium, xenon hexafluoride and hydrofluoric acid.

Hazardous Decomposition Products: Toxic fumes.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****CAS: 7631-86-9 Silica**

Oral	LD ₅₀	10000 mg/kg (rat)
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CAS: 1344-28-1 Aluminium oxide (Al₂O₃)

Oral	LD ₅₀	>5000 mg/kg (rat)
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Acute Health Effects**Inhalation:**

May cause respiratory irritation, coughing and chest pain. High levels of exposure may cause fatigue, chest pain, shortness of breath and lung damage.

Skin:

Causes severe skin burns. This product becomes hot in contact with water and can cause thermal burns.

Eye:

Causes serious eye damage. This product becomes hot in contact with water and can cause thermal burns.

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Ingestion:

May cause burns or irritation to the mouth, throat and stomach. This product becomes hot in contact with water and can cause thermal burns.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:

Silica, amorphous is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:

The prolonged and repeated exposure (by inhalation) to respirable (crystalline) silica cause silicosis, a debilitating lung disease. The crystalline silica dust is practically insoluble in body fluids and can be deposited in lungs. Cigarette smoking can reduce the clearance of crystalline silica. The data indicate that the relative lung cancer risk is increased for people with silicosis.

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information: No information available

12 Ecological Information

Ecotoxicity: No further relevant information available.

Aquatic toxicity: No further relevant information available.

Persistence and Degradability: No further relevant information available.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number Not regulated.

Proper Shipping Name Not regulated.

Dangerous Goods Class Not regulated.

Packing Group: Not regulated.

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15 Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 7631-86-9	Silica
CAS: 1344-28-1	Aluminium oxide (Al ₂ O ₃)
CAS: 1313-59-3	Sodium oxide
CAS: 12136-45-7	Dipotassium oxide

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Not Scheduled.

16 Other Information

Date of Preparation or Last Revision: 13.03.2019

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au
Abbreviations and acronyms:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

 LC₅₀: Lethal concentration, 50 percent

 LD₅₀: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Skin Corrosion/Irritation 1B: Skin corrosion/irritation – Category 1B

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

 Carcinogenicity 1A: Carcinogenicity – Category 1A_i

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016"

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