

Ingersoll Rand 1/8" Desiccant

MATERIAL SAFETY DATA SHEET

Effective Date: January 2010

1. PRODUCT NAME AND INFORMATION

Ingersoll Rand 1/8" Desiccant is specifically formulated for use in air dryers.

24-Hour Emergency Phone Number: 1-989-636-4400

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Content (W/W)	Chemical name
1333-84-2	>= 94.0 - <= 100.0 %	Aluminum oxide (Al ₂ O ₃), hydrate

3. HAZARDOUS IDENTIFICATION

Emergency overview

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION
May cause difficulty breathing.
Prolonged or repeated contact may result in dermatitis.
Contact with the eyes or skin may cause mechanical irritation.
Contains material which may indicate the possibility of sensory and pulmonary irritation.
Avoid contact with the skin, eyes and clothing.
Avoid inhalation of dusts.
Use with local exhaust ventilation.
Wear a NIOSH-certified (or equivalent) particulate respirator.
Wear safety glasses with side-shields.
Wear chemical resistant protective gloves.
Wear protective clothing.
Eye wash fountains and safety showers must be easily accessible.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

4. FIRST AID

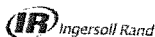
If inhaled:

Keep patient calm, remove to fresh air. If necessary, give oxygen. If not breathing, give artificial respiration.
Seek medical attention if necessary.

If on skin:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists.

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Advice on system design:

Provide local exhaust ventilation to control dust. Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) particulate respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134). Wear appropriate certified respirator when exposure limits may be exceeded.

Hand protection:

Wear chemical resistant protective gloves. Consult with glove manufacturer for testing data.

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen based on level of activity and exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

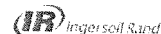
Form:	powder, granules, pellets, balls
Odor:	odorless
Color:	off-white
pH value:	9.4 - 10.1
Melting point:	2,050 °C
Boiling point:	No data available
Vapor pressure:	No data available
Density:	No data available
Bulk density:	approx. 650 kg/m ³ 38.0 - 52.0 lb/ft ³ (68 °F)
Partitioning coefficient n-octanol/water (log Pow):	No data available
Viscosity, dynamic:	No data available
Solubility in water:	insoluble

10. STABILITY AND REACTIVITY

Substances to avoid:
Water

Hazardous reactions:
The product is chemically stable.
Addition of water leads to increase in temperature.

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If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

If swallowed:

No hazards anticipated. If large quantities are ingested, seek medical advice.

5. FIRE FIGHTING MEASURES

Flash point: Non-flammable

Additional information:

Use extinguishing measures to suit surroundings.

Hazards during fire-fighting:

No particular hazards known.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

NFPA Hazard codes:

Health 0 Fires 0 Reactivity 1 Special

6. ACCIDENTAL RELEASE MEASURES: (See Section 15 for Regulatory information)

Cleanup:

Vacuum up spilled product. Place into suitable container for disposal.

7. HANDLING AND STORAGE

Handling

General advice:

Avoid dust formation in confined areas. Avoid contact with the skin, eyes and clothing. Ensure adequate ventilation.

Storage

General advice:

Keep container tightly closed in a cool, well-ventilated place.

Storage stability:

Keep container dry.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Components with workplace control parameters

Aluminum oxide (Al ₂ O ₃), hydrate	OSHA	PEL 5 mg/m ³ Respirable fraction, PEL 15 mg/m ³ Total dust
	ACGIH	TWA value 1 mg/m ³ Respirable fraction,

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11. TOXICOLOGICAL INFORMATION

Oral:

Information on: Aluminum oxide
LD50(rat): > 5,000 mg/kg (OECD Guideline 401)

Skin irritation:

Information on: Aluminum oxide
rabbit, non-irritant (OECD Guideline 404)

12. ECOLOGICAL INFORMATION: (

Information on: Aluminum oxide

Acute and prolonged toxicity to fish:

DIN 38412 Part 15 static:

golden orfe/LC50 (96 h) > 500 mg/l

The product has not been tested. The statement has been derived from products of a similar structure and composition.

Information on: Aluminum oxide

Acute toxicity to aquatic invertebrates:

OECD Guideline 202, part 1 static:

Daphnia magna (48 h) > 100 mg/l

13. DISPOSAL CONSIDERATIONS

Waste disposal of substance:

Dispose of in accordance with local authority regulations.

Check for possible recycling.

Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

All waste materials should be reviewed to determine the applicable hazards (testing may be necessary).

14. TRANSPORT INFORMATION

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. REGULATORY INFORMATION:Federal Regulations**Registration status:**

TSCA, US released / listed

OSHA hazard category: ACGIH TLV established**SARA hazard categories (EPCRA 311/312):** Acute**SARA 313:****CAS Number Chemical name**1333-84-2 Aluminum oxide (Al₂O₃), hydrateState regulations**State RTK**

CAS Number	Chemical name	State RTK
1333-84-2	Aluminum oxide (Al ₂ O ₃), hydrate	MA, NJ, PA

16. ADDITIONAL INFORMATION**HMIS III rating**

Health 1 Flammability 0 Physical hazard 1

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard, a rating of four indicates high hazard

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