



Safety Data Sheet

Silica Gel Indicating Blue (Dry) to Pink (Wet)

Date: September 14, 2016

Section 1 – Product and Company Information

Product Name: Silica Gel, Blue Indicating (Beads)

Chemical Family: Amorphous Silica

Product Use: Industrial: Adsorbent used to reduce moisture content of compressed air and other compressed gases, also used for humidity control and to indicate moisture content of sample stream of gas by changing color from blue to pink.

Company Identification: Moisture Boss, LLC, 1534 Oak Avenue, Boulder, CO, 80304

Telephone Number: 303-444-2869

Section 2 – Hazard Identification

CLASSIFICATION: according to Regulation (EC)No 1272/2008

GHS CLASSIFICATION: Carcinogenicity: Category 1B

Color: Blue to pink depending on water content

Physical state: Solid beads

Odor: Odorless

Emergency Overview: Avoid excess contact with skin and eyes. Avoid breathing dust. Wash thoroughly with soap and water after handling.

Signal Word: Danger

Potential Health Effects:

H317 May cause allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H351 Suspected of causing cancer

H360 May damage fertility or the unborn child

H401 Toxic to aquatic life

H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s):

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P261 Avoid breathing dust

P271 Use only in a well-ventilated area or outdoors

P272 Contaminated work clothing should not be allowed out of the workplace

P273 Avoid release to the environment

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

P285 In case of inadequate ventilation wear respiratory protection

P302 + P352 IF ON SKIN: Wash with plenty of water and soap
P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in position comfortable for breathing
P308 + P313 IF EXPOSED OR CONCERNED: Get medical advice.
P333 + P313 If skin irritation or rash occurs: Get medical advice
P363 Wash contaminated clothing before reuse
P405 Store locked up
P501 Dispose of contents/container to an approved waste disposal plant in accordance with local regulation(s)
Health Hazards (acute and chronic):
HAZARD STATEMENTS: H350 May cause cancer
PRECAUTIONARY STATEMENTS: P281 Use personal protective equipment as required.
P261 Avoid breathing dust.
P308+P313 If exposed or concerned: Get medical advice/attention.

EU CLASSIFICATION: according to Directive 67/548/EEC and 1999/45/EC

SYMBOL: T

R-phrases : R49 May cause cancer by prolonged inhalation.

S-phrases : S53 Avoid exposure-obtain special instructions before use.

S45 In case of accident or if you feel unwell, seek medical advice immediately.

Section 3 – Composition / Information on Ingredients

CHEMICAL IDENTITY CONTENT

Silica gel (1) 98%

Cobalt chloride: (2) < 1%

SYNONYMS : (2); Cobalt (II) chloride

FORMULA : (1); $\text{SiO}_2 \cdot n\text{H}_2\text{O}$; (2); CoCl_2

MOLECULAR WEIGHT : (2); 129.84

(1); Not available

CAS NUMBER : (1); 7631-86-9 ; (2); 7646-79-9

TSCA INVENTORY : (1),(2); Listed

EINECS No. : (1); 231-545-4 (2); 231-589-4

EC INDEX NUMBER : (2); 027-004-00-5 (1); Not listed

HAZARDOUS COMPONENTS:

(2) Cobalt chloride

Carc.1B, Muta.2, Repr.1B, Acute Tox.4+, Resp.Sens.1, Skin Sens.1, Aquatic Acute 1, Aquatic Chronic 1, GHS08,GHS07,GHS09, Dgr

Carc.Cat.2, Muta.Cat.3, Repr.Cat.2, Xn, N ; R22-43-50/53

Section 4 - First Aid Measures

General: Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

Eyes: Flush with water for several minutes. Get medical attention if irritation occurs.

Skin: Remove contaminated clothing / shoes. Wash with soap and water. Treat for dry skin or mild irritation. Get medical attention if irritation persists.

Inhalation: Move person to fresh air. If breathing is difficult, consult a Physician.

Ingestion: Give several glasses of water to drink to dilute. If symptoms exist consult a Physician.

Note to Physician: Treat symptomatically and supportively. P a g e | 3

Section 5 – Fire Fighting Measures

Flammable Properties: Non-flammable

Flash Point: Not applicable.

Method Used: Not applicable

Flammability Limits:

LEL: Not applicable.

UEL: Not applicable.

Fire Fighting Instructions: Non-combustible.

Extinguishing Media: Not applicable.

Unusual Fire and Explosion Hazards: Oxides of carbon and silicon may be formed when heated

Section 6 – Accidental Release Measures

Small/Large Spills: Use personal Protective equipment. Avoid breathing dust. Prevent further spill. Do not sweep into drains. Avoid water. Sweep, shovel or vacuum for disposal per local, state and federal requirements or reuse.

Waste Disposal Method: Discharge into environment must be avoided. Dispose of per local, state and federal requirements.

Section 7 – Handling and Storage

Handling: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection. This material is hygroscopic.

Storage: Store in cool dry place. Keep containers tightly closed since material is hygroscopic. Repair damaged containers.

Incompatibilities: Oxidizers, water and hydrogen fluoride

Section 8 – Exposure Controls and Personal Protection

Engineering controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure of airborne contaminants below the exposure limits. Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks, eating and at the end of the workday.

Exposure Limits:	CAS-No.	Value	Control Parameters	Basis
Component				
Silica-Amorphous, precipitated	112926-00-8	TWA	6.0 mg/m3	USA. NIOSH Recommended Exposure Limits
Cobalt dichloride	7646-79-9	TWA	0.020 mg/m3	m3 USA. ACGIH Threshold Limit Values (TLV)