

Safety Data Sheet
OSHA 29 CFR 1910.1200

Printing Date: December 16, 2021

Version No.: 1.0

Revision: December 16, 2021

SDS REPORT**SP-Belart****661 Route 23 South, Wayne N.J. 07470 USA**

SDS Report No.	:	SDS202112100601
Compilation Date	:	December 16, 2021
Sample Name	:	Silica gel desiccant
Composition/Ingredient of The Sample	:	See Section 3 on the SDS
Service Requested	:	Safety Data Sheet (SDS) for the sample with submitted composition.
Summary	:	As per request, the contents and formats of the SDS are prepared in according with US Regulations Relating to Labor 29 CFR 1910.1200(g), and is provided per attached.

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Trade Name: Silica gel desiccant

1 Identification

- **Product identifier**
- **Trade name:** Silica gel desiccant
- **Recommended use of the chemical and restrictions on use**
- **Application of the substance/ mixture:** Industrial uses, moistureproof.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

SP-Belart

**661 Route 23 South
Wayne N.J. 07470 USA**

Emergency Telephone number: +1 (800) 457-4280
or:

- **Emergency telephone number**

US Poison Center

Tel: + 1 800 222 1222 (24hours available)

2 Hazard(s) identification

- **Classification of the substance or mixture:**

This product is not classified according to OSHA 2012 Hazard Communication Standard (29 CFR 1910.1200).

- **Classification system:**

The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200) and extended by company and literature data.

- **Label elements**

- **Labeling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**

- **Hazard pictograms:** Not applicable

- **Signal word:** Not applicable

- **Hazard-determining components of labelling:** Not applicable

- **Hazard statements:** Not applicable

- **Precautionary statement:** Not applicable

- **Hazards not otherwise classified (HNOC):** No known otherwise classified hazards.

3 Composition/information on ingredients

- **Chemical characterization:** Mixture

- **Description:** Silica gel desiccant.

- **Components:**

CAS No.	Composition Name	w/w, %
7631-86-9	Silicon dioxide	99.99
1307-96-6	Cobaltous oxide	0.01

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4 First aid measures

• **Description of first aid measures**

After inhalation: Supply with fresh air. Call for doctor/physician if you feel unwell.

After skin contact: Wash skin with water. If skin irritation / allergy happens: Get medical advice/attention.

After eye contact: Rinse eyes with water. If eye irritation persists: Get medical advice/attention.

After swallowing: Rinse out mouth with water. If you feel unwell, get medical advice/attention.

• **Information for doctor**

• **Most important symptoms and effects, both acute and delayed:** No known symptoms or effects.

• **Indication of any immediate medical attention and special treatment needed:** No special immediate medical attention or special treatment needed.

5 Fire-fighting measures

• **Suitable extinguishing agents:** Not flammable solid, use the suitable extinguishing agents surrounding condition.

• **Special hazards arising from the substance or mixture:** No special hazards arising from the mixture.

• **Special protective equipment and precaution for firefighters**

Protective equipment: Wear fully protective suit and mouth respiratory protective device if necessary.

6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures:**

Collect the leakage timely; Ensure adequate ventilation; Avoid breath dust.

• **Environmental precautions:**

Do not allow the product to enter sewers/surface or ground water.

Inform respective authorities in case of seepage into water course or sewages system.

• **Methods and material for containment and cleaning up:**

Pick up mechanically; Ensure good ventilation; Dispose contaminated material as waste according to item 13.

7 Handling and storage

• **Handling**

• **Precautions for safe handling:** Ensure adequate ventilation at workplace; Avoid breath dust.

• **Information about fire and explosion protection:** Normal measures for preventive fire protection.

• **Conditions for safe storage, including any incompatibilities**

• **Requirements to be met by storerooms and receptacles:** Store in a dry and well-ventilated place.

• **Information about storage in one common storage facility:** Keep away from water.

• **Further information about storage conditions:** Store locked up.

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8 Exposure controls/personal protection

• **Components with limit values that require monitoring at the workplace:**

CAS No.	Composition	OSHA PEL	NIOSH REL	Cal/OSHA PEL	Cal/OSHA PEL
7631-86-9	Silicon dioxide	20 mppcf or (80 mg/m ³)/(%SiO ₂) 8-hour TWA	6 mg/m ³ Up to 10-hour TWA	6 mg/m ³ (total dust), 3 mg/m ³ (respirable dust), 6 mg/m ³ (precipitated and gel) 8-hour TWA	-
1307-96-6	Cobaltous oxide (as Co)	0.01 mg/m ³ 8-hour TWA	0.05 mg/m ³ Up to 10-hour TWA	0.02 mg/m ³ (inhalable particulate matter) (cobalt and inorganic compounds, as Co) 8-hour TWA	0.02 mg/m ³ 8-hour TWA

• **Additional information:** The lists that were valid during the creation were used as basis.

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure:**

• **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice; See section 7 for information about design of technical facilities.

• **Personal protective equipment:**

• **Eye and face protection:**



Safety glasses

Protective goggles with side-shields.

• **Skin protection**

• **Hand protection:**



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.3mm; breakthrough times up to 480 minutes).

• **Other skin protection:**

Gauntlets, boots, bodysuit are recommended.

• **Respiration protection:**

Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

• **Thermal hazards:**

The gauntlets, boots, bodysuit and other personal protective equipment must be flame-retardant and no heat-conducting.

9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **Appearance:**

Form	Solid
Color	Blue(Absorb moisture and turn pink in case of water)
Odor	Odorless

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Odor threshold	Not applicable
• pH-value	Not determined, this product is insoluble in water.
• Change in condition	
Melting point/melting range	1710°C
Boiling point and boiling range	2230°C
• Freezing point	Not determined.
• Flash point	Not applicable
• Flammability	Not flammable solid
• Decomposition temperature	Not determined.
• Self-ignition	Not determined.
• Danger of explosion	Product dose not present explosive hazard.
• Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
• Oxidizing properties	Not oxidizing agent
• Vapor pressure	Not applicable
• Density	2.2 g/cm ³ at 25°C
• Relative density	Not determined.
• Vapor density	Not applicable
• Evaporation rate	Not determined.
• Solubility in/Miscibility with	
Water	Insoluble in water
• Partition coefficient (n-octanol/water)	Not determined.
• Viscosity	
Dynamic	Not applicable
Kinematic	Not applicable
• Other information	Not determined.

10 Stability and reactivity

- **Reactivity:** No decomposition if used according to specification.
- **Chemical stability:** Stable under recommended storage conditions.
- **Possibility of hazardous reactions:** No known hazardous reaction.
- **Conditions to avoid:** High humidity.
- **Incompatible materials:** Strong acid, especial hydrofluoric acid.
- **Hazardous decomposition products:** No known hazardous decomposition products.

11 Toxicological information

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• **Acute toxicity:** Not acute toxicity mixture.

LD50/LC50 values relevant for classification:

1307-96-6 Cobalt oxide

Rat	LD50-oral	202mg/kg
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Remark: The above data is from literature.

• **Primary irritant effect**

• **Skin corrosion/irritation:** Not irritant to skin.

• **Serious eyes damage/irritation:** Not irritant to eyes.

• **Sensitization:** Not sensitive to skin or respiratory.

• **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations.

• **Carcinogenic categories**

• **IARC (International Agency for Research on Cancer):**

7631-86-9	Silicon dioxide	3
1307-96-6	Cobaltous oxide	2B

• **NTP (National Toxicology Program):**

1307-96-6	Cobaltous oxide	P
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12 Ecological information

• **Toxicity:** No available data.

• **Persistence and degradability:** No available data.

• **Bio-accumulative potential:** No available data.

• **Mobility in soil:** No available data.

• **Additional ecological information**

• **Other adverse effects:** No known other adverse effects.

13 Disposal consideration

• **Waste treatment methods**

• **Recommendation:** Small quantities can be disposed together with household garbage. Large quantities disposed must be in according to the local regulation.

• **Un-cleaned packaging**

• **Recommendation:** Dispose of contents/container in according to the local regulation.

14 Transport information

• **UN-Number**

DOT, IMDG, IATA

Not regulated as dangerous goods, not applicable

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· UN proper shipping name	
DOT, IMDG, IATA	Void
· Transport hazard class (es)	
DOT, IMDG, IATA	
Class	Void
Label	Void
· Packing group	
DOT, IMDG, IATA	Void
· Environmental hazardous	
Marine pollution	No
· Special precautions for user	
· Danger code (Kemler)	Void
· EMS number	Void
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
	Void
· UN "Model Regulation"	
	Void

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances): None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

1307-96-6	Cobaltous oxide
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· TSCA (Toxic Substances Control Act):

7631-86-9	Silicon dioxide
1307-96-6	Cobaltous oxide

· Proposition 65

· Chemicals known to cause cancer:

1307-96-6	Cobaltous oxide
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· Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.

· Chemicals known to cause developmental toxicity: None of the ingredients is listed.

· Washington, WAC 173-334-130 (CHCC):

1307-96-6	Cobaltous oxide
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· Chemicals of Concern, published by Maine DEP on July, 2015:

1307-96-6	Cobaltous oxide
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· Chemicals of High Concern to Children, published by Department of Health, Vermont, Rev Date Nov 24, 2014:

1307-96-6	Cobaltous oxide
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· High Priority Chemicals of Concern for children's Health, Oregon, update on May 18, 2016:

1307-96-6	Cobaltous oxide
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· Carcinogenicity categories

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• **EPA (Environmental Protection Agency):** None of the ingredients is listed.

• **TLV (Threshold Limit Value established by ACGIH):**

1307-96-6	Cobaltous oxide	A3
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• **NIOSH-Ca (National Institute for Occupational Safety and Health):** None of the ingredients is listed.

• **OSHA-Ca (Occupational Safety & Health Administration):** None of the ingredients is listed.

16 Other information

The contents and format of this SDS are in accordance with 29 CFR 1910.1200(g).

DISCLAIMER OF LIABILITY:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

• **Abbreviations and acronyms:**

DOT: Department of Transportation

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

PEL: Permissible Exposure Limit

TLV: Threshold limit value

REL: Recommended Exposure Limit

End of safety data sheet