

SAFETY DATA SHEET

© Carlisle Fluid Technologies, Inc. PRODUCT RELATED HEALTH DATA SHEET

1. IDENTIFICATION

1.1 Product identifier

Product Name : Premium Desiccant
Product Code : Part No. 130504 &DAD-1
Product Description : Desiccant – Air Dryer
SDS # : SDS-1 REVISION #: 3.0.4
CHEMICAL FORMULA: Silica Gel Beads (SiO₂ . nH₂O)

CAS NUMBER : 7631-86-9.
Article Code : Not Applicable.

GENERAL USE : Premium Silica Gel Bead Desiccant for water removal from compressed air.

DATE REVISED: 12/12/2021 DATE PREPARED: 05/04/2018

1.2 Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

Carlisle Fluid Technologies, Inc.

16430 North Scottsdale Road

Scottsdale, AZ 85254

Technical service number 1-888-992-4657 Technical service Europe Tel: +44 (0)1202 571 111

Emergency telephone number

Emergency Number - INFOTRAC The National Chemical Emergency Centre (NCEC)

EMERGENCY PHONE (24 HOURS): Deutsche hotline - 0800 7238996 (Kostenfrei innerhalb Deutschlands)

1-800-535-5053 oder +44 (0)1235 753 148

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product definition : Silica Gel Beads.

The product is not classified as dangerous according to OSHA 29 CFR 1910.1200 - GHS

Classification : Not a hazardous substance or mixture.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms : No pictogram.
Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards

Precautionarystatements

Prevention: Not applicable.Response: Not applicable.Storage: Not applicable.Disposal: Not applicable.Hazardous ingredients: None known.Supplemental label: Silica Gel.

elements

Special packaging requirements

Containers to be fitted : Not applicable.

with child-resistant

fastenings

Tactile warning of danger : Not applicable.



2.3 Other hazards

Other hazards which do not result in classification

Properties affecting health

Principle routes of exposure : Skin, eye, inhalation, ingestion.

Skin contact: Dust may cause a mechanical irritation. No adverse effects expected.

Eye contact: Route of exposure unlikely. Dust may cause a mechanical irritation which can scratch

the eye.

Inhalation : No health effects expected with normal use of product.Ingestion : Non-toxic by ingestion. Keep away from children and pets.

Chronic Effects: not applicable

Medical Conditions Aggravated by Long-Term Exposure: asthma, allergies

Target Organs: skin and eyes

Signs and Symptoms: Adverse allergic reactions to dust may result in, but are not limited to, redness and irritation of the

eves and skin. If such a reaction occurs, seek medical attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS Chemical Name % BY WT. CAS-No Silica Gel (SiO2) 25 - 99 7631-86-9

4. FIRST AID MEASURES

4.1 Description of first aid measures

EYE CONTACT: Do not rub eyes. Make sure to remove any contact lenses from the eyes before rinsing.

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least

15 minutes. Get medical attention if any discomfort continues.

INHALATION : Move individual to fresh air. If breathing is difficult, get medical attention.

SKIN CONTACT: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if

irritation develops.

INGESTION: Give several glasses of water to drink to dilute. Do not induce vomiting. If large amounts are

ingested, get medical advice.

Protection of first-aiders: No known significant effects or critical hazards.

4.2 Most important symptoms and effects, both acute and delayed

Potentialacutehealtheffects

Eye contact : Route of exposure unlikely. Dust may cause a mechanical irritation which can scratch the eye.

Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards.

Ingestion : Non-toxic by ingestion.

Over-exposure signs/symptoms

Eye contact : Dust may cause mechanical irritation. **Inhalation** : Dust is irritating to the respiratory tract.

Skin contact: Prolonged or repeated skin contact may cause irritation.

Ingestion : May cause irritation of the digestive tract.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat Symptomatically. Specific treatments : No specific treatment.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: This product is not flammable. Use fire-extinguishing media appropriate for

surrounding materials.

Unsuitable extinguishing media : None known. 5.2 Special hazards arising from the substance or mixture





Flammability class : Not Applicable.

Fire retardant method : Use fire-extinguishing media appropriate for

surrounding materials.

Flash Point : Not Applicable.

Autoignition Temperature : Not Applicable.

Sensitivity to Static Discharge : None. **Hazards from the substance or mixture** : None.

Unusual Fire and Explosion Hazards : Not Determined.

Hazardous combustion products : None under normal conditions.

Note : None.

5.3 Advice for firefighters

Special precautions for fire-fighters : None.

Special protective equipment for

fire-fighters

: Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will

provide a basic level of protection for chemical incidents.

HMIS RATING: See Section 15.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any

information regarding personal protective equipment in Section 8.

6.2 Environmental precautions : As with all materials, keep out of drains, sewers, ditches and waterways.

6.3 Methods and materials for containment and cleaning up

Small spill : Contain spillage. Scoop or vacuum into a container for reclamation or disposal, avoid

breathing dust.

Large spill : Vacuuming or wet sweeping may be used to avoid dust. Note: see section 13 for waste

disposal.

6.4 Reference to other sections : See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures : There is little or no health hazards associated with intact packaged desiccant. Do not

cut, open or remove desiccant fill from package.

(see Section 8 for additional information)

Advice on general occupational

hygiene

: Use of proper hygiene practices in the workplace is recommended. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and

processed. Workers should wash hands and face before eating, drinking and smoking.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep

in original container.

7.3 Specific end use(s)

Recommendations : Not available. **Industrial sector specific solutions** : Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients Exposure Limits

Silica Gel (SiO₂) OSHA-PEL: 80 mg/m/%SiO₂³ TWA: 20 mppcf

NIOSH REL: TWA- 6 mg/m³ IDLH: 3,000 mg/m³



8.2 Exposure controls

Appropriate engineering

: Good ventilation should be sufficient to control airborne levels.

controls

Personal Protection Equipment

Eye Protection : Safety glasses should be worn.

Skin Protection : Gloves recommended.

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if expo-

sure limits are exceeded or if irritation or other symptoms are experienced.

Other protective clothing: Wear appropriate clothing to prevent any possibility of skin contact.

Hygienic Practices : Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Wash promptly if skin becomes wet or contaminated. When using do not eat, drink or

smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Solid. Color : White. Odor : None.

: Semi-transparent beads. Appearance : 3.0 - 8.0 (in 5% slurry) pН Melting point/freezing point : 1,710°C (3,110.00°F). Initial boiling point and : 2,230°C (4,046.00°F).

boiling range

Flash point : Not available. Flammability (solid, gas) : Not available. **Burning time** : Not applicable. : Not applicable. **Burning** rate Upper/lower flammability or : Not available.

explosive limits

Vapor pressure : Not available.

Density (water=1) : 2.1. Solubility in Water : Insoluble. **Partition coefficient:** : Not available. **Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available. Viscosity : Not available. **Explosive properties** : Not available. VOC : None.

Oxidizing properties : Not available.

9.2 Other information No additional information.

10. STABILITY AND REACTIVITY

10.1 Reactivity : No data available.

10.2 Chemical stability : Stable under normal storage conditions.

10.3 Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid : Moisture. 10.5 Incompatible materials : None known. 10.6 Hazardous decomposition : No data available.

products





11. TOXICOLOGICAL INFORMATION

11.1 Acutetoxicity

Effects of Acute Exposure : Not available.

(LD50 oral and LC50) 11.2 Acute toxicity estimates

Conclusion/Summary : Silica Gels are very low in oral toxicity based on comparison to related forms of silica.

No adverse effects have been observed in experimental animals following ingestion of

any form of amorphous silica.

Toxic Dose 1 - LD 50 > 10,000 mg/kg (oral rat)

11.3 Irritation/Corrosion

Conclusion/Summary: No special risk under normal use. Dusts of particulates may cause minor abrasion.

May cause dryness.

11.4 Sensitizer

Conclusion/Summary : Not available.

11.5 Mutagenicity

Conclusion/Summary : Not available.

11.6 Carcinogenicity

Conclusion/Summary : IARC: 3 - Group 3 - Not classifiable as to its carcinogenicity to humans (Silica-

Amorphous, precipitated).

11.7 Reproductive toxicity

Conclusion/Summary : Not available.

11.8 Teratogenicity

Conclusion/Summary : Not available.

11.9 Specific target organ toxicity (single exposure)

Not hazardous.

11.10 Specific target organ toxicity (repeated exposure)

Conclusion/Summary : No specific health warnings noted. No specific acute or chronic health impact noted,

but this chemical may still have adverse impact on human health, either in general or on

certain individuals with pre-existing or latent health problems.

11.11 Aspiration hazard

Conclusion/Summary : Not hazardous.

11.12 Information on the likely routes of exposure: Not hazardous.

11.13 Potential acute health effects

Inhalation : No special risk under normal use. Inhalation of airborne particulate may lead to

Mechanical irritation of the respiratory tract and mucous membranes.

Ingestion : May result in irritation of the digestive tract.

Skin contact : Not applicable for product in purchased form. Adverse allergic reactions may

result in, but are not limited to, redness and irritation.

Eye contact: No special risk under normal use. Dusts of particulates may cause mechanical irritation,

possibly including pain, tearing, and redness. Scratching of the cornea can occur if eye

is rubbed.

11.4 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.Ingestion: No specific data.Skin contact: No specific data.Eye contact: No specific data.

11.15 Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available. **Potential delayed effects** : Not available.

Long term exposure

Potential immediate effects : Not hazardous. **Potential delayed effects** : Not hazardous.

11.16 Potential chronic health effects

Effects of Chronic Exposure : Not hazardous.

General : No known significant effects or critical hazards.





Carcinogenicity (IARC, ACGIH, : None

OSHA)

Mutagenicity : Not hazardous.
Teratogenicity : Not hazardous.

Developmental effects: No known significant effects or critical hazards. **Fertility effects**: No known significant effects or critical hazards.

11.17 Other information : Not available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Aquatic

Conclusion/Summary : Not considered toxic to fish.

12.2 Persistence

Conclusion/Summary : Not available.

12.3 Bioaccumulation/Accumulation

Conclusion/Summary : Not available.

12.4 Mobility/Persistence in soil

Conclusion/Summary: The product is water soluble and may spread in water systems.

12.5 Degradability/Leaching

Conclusion/Summary: There are no data on the degradability of this product.

12.6 Environmental Fate

Conclusion/Summary : Silica Gel is not biodegradable.

12.7 Results of PBT and vPvB assessment: This product does not contain any PBT or vPvB substances.
12.8 Other adverse effects: No known ecological hazards are associated with this product.

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Methods of disposal: Dispose of according to local, state and federal regulations.

Hazardous waste: Refer to federal, state and local requirements for disposal (OSHA 1910.107, NFPA 33, 40CFR63

parts 260-262, state AQMD and WQMD, local Waste Management Authority).

13.2 Packaging

IBC Code

Methods of disposal: Empty packaging may be discarded as non-hazardous material.

13.3 Special precautions: None known.

14. TRANSPORT INFORMATION

14. IKANSI OKI INTOKWATION					
	US DOT	ADR/RID	IMDG	IATA	CAN TDG
14.1 UN number	Not regulated.				
14.2 UN proper shipping name	None.	None.	None.	None.	None.
14.3 Transport hazard class(s)	Not restricted.				
14.4 Packing group	None.	None.	None.	None.	None.
14.5 Environmental hazards	No.	No.	No.	No.	No.
14.6 Special precautions for user	Not available.				
Additional information	None.	None.	None.	None.	None.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the	Not available.				





15. REGULATORY INFORMATION

15.1 Federal Regulations

Global Inventories: All ingredients are on DSL/NDSL and TSCA inventories.

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations

(CPR) and the SDS contains all information required by the CPR.

WHMIS Classification: exempt NSNR/NPRI: no reportable substances

United States of America: SDS prepared pursuant to the Hazard Communication Standard (29CFR1910.1200).

EPA Hazardous Waste Number and Classification (40CFR261.22): none required

Toxic Substances Control Act (TSCA): This product is either listed on or compliant with the TSCA Inventory. **EPA SARA Title III/CERCLA:** Product is not reportable under Sections 311/312 hazard categories and contains no chemicals reportable under Section 313 (40CFR372). This product does not contain chemicals that are regulated under Section 304/CERCLA (40CFR302.4).

OSHA Hazard Status: Not considered hazardous as defined by the US OSHA Hazard Communication Standard (29CFR1910.1200).

15.2 State Regulations

NEW JERSEY RIGHT-TO-KNOW HAZARDOUS SUBSTANCES LIST: Not on List.

MASSACHUSETTS RIGHT-TO-KNOW SUBSTANCE LIST: On List.

PENNSYLVANIA HAZARDOUS SUBSTANCES LIST: On List.

California Proposition 65: This product does not contain a chemical known to the state of California to cause cancer, birth defect or other reproductive harm.

15.3 HMIS RATING: Health 1, Flammability 0, Reactivity 0 **15.4 NFPA RATING:** Health 1, Flammability 0, Reactivity 0

16. OTHER INFORMATION

16.1 Full text of abbreviated H: None.

statements

16.2 Full text of classifications : None.16.3 Full text of abbreviated R : None.

phrases

16.4 Full text of classifications: None.

[DSD/DPD]

16.5 SDS PREPARED BY: Director of Chemical Safety

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, Carlisle Fluid Technologies, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will Carlisle Fluid Technologies, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.

16.6 REVISION DATE: 12/12/2021 REVISION #: 3.0.4

*** END OF SDS ***

