

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**Trade name: **DP450BOX**Substance name: **Silicon dioxide****Identification numbers**

CAS no.: 7631-86-9; 112926-00-8

EC no.: 231-545-4

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

Product is in granular form and packed in bags for use as a moisture absorbent.

Uses advised against

No data available.

Reference to relevant exposure scenarios

For an overview of the exact titles of the relevant exposure scenarios please refer to section 16 of this SDS.

1.3 Details of the supplier of the safety data sheet**Address**Company name: **Absorbent Industries, LLC.**

Address: 5390 Lippard Lane, Harrisburg, NC 28075 USA

Telephone: 1-704-490-4609

Contact Person:

Web:

1.4 Emergency telephone number

Within USA & Canada: +1.800.424.9300 CCN693143

Outside USA & Canada: +1.703.527.3887 (collect calls accepted)

24 Hour Emergency Response

American Association of Poison Control Centers

+1.800.222.1222 (Staffed 24/7)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification in accordance with: Regulation (EC) No 1272/2008 (CLP), US Regulation 29 CFR 1910.1200 (HazCom2012)

Legal Remark (U.S.A.)

Safety Data Sheets are a sub-requirement of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR Subpart 1910.1200.

2.2 Label elements**Hazard pictograms:** NONE.**Product identifier:** DP450BOX**Signal word:** NONE.**Hazard statements:** NONE.**Precautionary statements:** NONE.**2.3 Other hazards**

No data available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Chemical characterization

Substance name: **DP450BOX**

Identification numbers

CAS no.: 7631-86-9; 112926-00-8

EC no.: 231-545-4

3.2 Mixtures

DP450BOX is 100% white/clear silica gel.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

DP450BOX is not classified as hazardous. No special precautions required.

After inhalation

No specific recommendations. Remove to fresh air immediately. Get prompt medical attention. If breathing is difficult, give oxygen. Serious Inhalation: Not available.

After skin contact

To avoid repeated or prolonged contact with this material, use good hygienic practices. Wash affected area with soap and water. Get medical attention if irritation or inflammation develops. Serious Skin Contact: Not available.

After eye contact

Wash eyes immediately and carefully for 15 minutes with running water, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

After ingestion

No special precautions required. Rinse mouth. If large quantities of this material are swallowed, call a physician immediately. Serious Ingestion: Not available.

4.2 Most important symptoms and effects, both acute and delayed**Symptoms**

Not to be expected. No data available.

Effects

Not to be expected. No data available.

4.3 Indication of any immediate medical attention and special treatment needed

If seeking medical attention, provide SDS document to physician.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

DP450BOX is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media

None.

5.2 Special hazards arising from the substance or mixture

No data available.

5.3 Advice for firefighters

Wear full protective suit. Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Cool endangered containers.

SECTION 6: Accident release measures**6.1 Personal precautions, protective equipment and emergency procedures**

DP450BOX is not classified as hazardous. No special precautions required.

For non-emergency personnel

No special precautions required.

For emergency responders

Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions

No special precautions required.

6.3 Methods and material for containment and cleaning up

Vacuuming and/or wet methods of cleanup are preferred. Wash the spillage with water. Wipe with sponge.

6.4 Reference to other sections

Information regarding waste disposal, see chapter 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Observe label precautions. This material is normally packaged and contained in sealed bag.

General protective and hygiene measures

Wash hands after handling. Do not eat.

Advice on protection against fire and explosion

DP450BOX is not flammable.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Avoid storage near extreme heat, ignition sources or open flame.

Requirements for storage rooms and vessels

Keep only in the original packaging.

Advice on storage assembly

Keep away from foodstuffs, beverages and animal feeding stuffs.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters - Occupational exposure limit values**

NOISH Guide for Silica Gel CAS: 7631-86-9

REL:	6mg/m ³
TWA:	6mg/m ³
TWA:	20 millions of particles per cubic foot of air

8.2 Exposure controls**Appropriate engineering controls**

DP450BOX is in a gel form and it is unlikely to present an inhalation hazard as airborne emission.

Personal protective equipment**Respiratory protection**

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present.

Eye / face protection

Not required under normal conditions of use. Safety glasses with side shields or goggles.

Hand protection

Not required under normal conditions of use. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Other

No data available.

Environmental exposure controls

DP450BOX is not listed as dangerous for the environment.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance (physical state, color, etc.): Granules. White or colorless.

Upper/lower flammability or explosive limits: Not applicable.

Odor: No odor.

Vapor pressure: N/A

Vapor density: N/A

pH: 5-8 at 100g/l 68°F (20°C) - slurry

Density: 750-800kg/m³

Melting point/freezing point: 3.110°F (1.710°C)

Solubility(ies): Not soluble in water.

Initial boiling point and boiling range: 4.046°F (2.230°C)

Flash point: Not applicable.

Evaporation rate: N/A

Flammability (solid, gas): Not flammable.

Partition coefficient: N/A

Auto-ignition temperature: Not applicable.

Decomposition temperature: N/A

Viscosity: N/A

9.2 Other information

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

Water absorbent.

10.2 Chemical stability

Stable under normal temperatures.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Store away from incompatible materials.

10.5 Incompatible materials

Exothermic reaction with: Hydrogen halides, halogen oxides, alkali hydroxides, sodium, xenon hexafluoride.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute oral toxicity.**

(LD50): LD50>5000 mg/kg body weight (rat).

Acute dermal toxicity.

LD50>2000 mg/kg body weight (IUCLID, rabbit).

Acute inhalation toxicity.

LD50>2.2 mg/L (Rat) 4 h.

Skin corrosion/irritation.

No data available.

Serious eye damage/irritation.

No data available.

Respiratory or skin sensitization.

Not to be expected. No data available.

Germ cell mutagenicity.

Negative.

Reproduction toxicity.

Not toxic to reproduction.

Carcinogenicity.

Not carcinogenic. Does not increase the risk of carcinogenicity.

STOT – single exposure.

No data available.

STOT – repeated exposure.

No data available.

Aspiration hazard.

Not applicable (Solid).

SECTION 12: Ecological information**12.1 Toxicity****Toxicity to fish (acute & chronic)**

LC50: 5000 mg/L/96 h (fresh water fish)

Toxicity to Daphnia (acute & chronic)

EC50: 7600 mg/L/48h (Water Flea).

Toxicity to algae (acute & chronic)

EC50: 440 mg/L/72h (Freshwater Algae).

Bacteria toxicity

Not determined.

12.2 Persistence and degradability

Not relevant for inorganic substances.

12.3 Bioaccumulative potential

May have some potential to bioaccumulate.

12.4 Mobility in soil

Spillage unlikely to penetrate soil. Is not likely mobile in the environment due its low water solubility.

12.5 Results of PBT and vPvB assessment

No data available for assessment.

12.6 Other adverse effects

This product does not contain any known or suspected endocrine disruptors. This product does not contain any known or suspected substance.

12.7 Other information

Prevent from reaching drains, sewer or waterway.

SECTION 13: Disposal consideration**13.1 Waste treatment methods****Product and Packaging**

DP450BOX is contained within a bag that can easily be reactivated. Reactivation instructions are printed right on the side of the box (packaging).

Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

Packaging

Recyclable. Dry-packs moisture absorbing dehumidifying boxes are made of sturdy corrugated carton.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Not regulated as a hazardous material.

14.2 Transport IMDG

Not regulated as a hazardous material.

14.3 Transport ICAO-TI / IATA

Not regulated as a hazardous material.

14.4 Other information

No data available.

14.5 Environmental hazards

Not regulated as a hazardous material.

14.6 Special precautions for user

None.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Dangerous Substances Directive 67/548/EEC or Dangerous Preparations Directive, 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008;

US and Canada regulations

29 CFR 1910.1200 (HazCom2012)

Workplace Hazardous Materials Information System 2015

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information**Further information**

The information is based on our current knowledge however it does not represent a guarantee of product properties nor does it create any legal obligation. This "Safety Information" is provided as a service to our customers. The details presented are in accordance with our present knowledge and experiences.

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP); EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU
US Regulation 29 CFR 1910.1200 (HazCom2012); WHMIS 2015; National Threshold Limit Values of the corresponding countries; Transport regulations according to ADR, RID, IMDG, IATA; AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

References:

OSHA, 29 CFR 1910.1200(g) and Appendix D. United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), third revised edition, United Nations, 2009. These references and other information related to the revised Hazard Communication Standard can be found on OSHA's Hazard Communication Safety and Health Topics page, located at: <http://www.osha.gov/dsg/hazcom/index.html>.