

Desiccant is a drying agent used to lower the moisture content of air inside a closed space, such as a Moisture Barrier Bag (ANSI/ESD S11.4 Level 1 and Level 2 Static Control Bags). Desiccant is packaged in fractional units in order to facilitate its usage with a variety of bag sizes. One full "unit" of packaged desiccant will absorb the following quantities of water at equilibrium with air at 77°F (25°C): 3.00 grams @ 20% RH and 6.00 grams @ 40% RH, when tested to MIL-D-3464.

In order to provide a complete moisture barrier packaging assembly, desiccant must be inserted into the bag, prior to having the bag vacuum sealed. The recommended amount of desiccant is dependent on the interior surface area of the bag to be used. The table is a reference indicating recommended minimum amounts of desiccant that should be used with [Moisture Barrier Bags](#).



13844



13840 & 13850

"...it is important to take possible temperature exposure into account when shipping electronic parts. It is particularly important to consider what happens to the interior of a package if the environment has high humidity. If the temperature varies across the dew point of the established interior environment of the package, condensation may occur. The interior of a package should either contain desiccant or the air should be evacuated from the package during the sealing process. The package itself should have a low WVTR." (ESD Handbook ESD TR20.20 section 5.4.3.2.2)

| INTERIOR BAG SURFACE AREA* | NUMBER OF DESICCANT UNITS | | |
|----------------------------|---------------------------|----------|-----------|
| | **MIH <20% | MIH <30% | MIH < 40% |
| 100 sq. in. | 1.5 | 1.0 | 1.0 |
| 130 sq. in. | 2.0 | 1.5 | 1.0 |
| 160 sq. in. | 2.0 | 1.5 | 1.5 |
| 200 sq. in. | 2.5 | 2.0 | 1.5 |
| 240 sq. in. | 3.0 | 2.0 | 1.5 |
| 290 sq. in. | 4.0 | 2.5 | 2.0 |
| 340 sq. in. | 4.5 | 3.0 | 2.5 |
| 390 sq. in. | 5.0 | 3.5 | 2.5 |
| 450 sq. in. | 5.5 | 4.0 | 3.0 |
| 510 sq. in. | 6.5 | 4.5 | 3.5 |
| 580 sq. in. | 7.5 | 5.0 | 4.0 |
| 650 sq. in. | 8.0 | 5.5 | 4.0 |
| 720 sq. in. | 9.0 | 6.0 | 4.5 |

Table for recommended desiccant usage. Information taken out of EIA-583, Table 1, Page 8.

*To measure interior bag surface area, multiply length x width x 2

**MIH = Maximum Interior Humidity (%)

Desiccant paks are available from Desco in the following unit sizes and standard packages:

| Item | Unit Size - Dims | Std. Package |
|-----------------------|----------------------|--------------|
| 13840 | 1/2 unit - 1.5" x 3" | Box of 700 |
| 13844 | 1 unit - 2" x 4" | Pail of 300 |
| 13850 | 1/2 unit - 1.5" x 3" | Pail of 550 |

As packaged Desco 13850 meets MIL-D-3464, Type II and is on the QPL (Qualified Product List). Click [here](#) to see Desi-Pak (supplier Cage Code 00334).

Fill Contents: Activated Clay
Paper: Tyvek
Warranty: 3 Years from date of manufacture



Made in the United States of America

Specifications and procedures subject to change without notice.

| Desiccant Pak | | |
|--|-------------------------|-----------------------|
| DESCO WEST: 3651 WALNUT AVE., CHINO, CA 91710 WEBSITE: Desco.com PHONE (909) 627-8178 | DRAWING NUMBER 13850 | DATE: July 2021 |
| DESCO EAST: ONE COLGATE WAY, CANTON, MA 02021-1407 PHONE (781) 821-8370 | | |



REACH Registration No.: None
CAS No.: None

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

Identified use: Desiccant

1.3 Details of the supplier of the safety data sheet

Supplier: Desco
3651 Walnut Ave
Chino, CA 91710
(909) 627-8178

Email Address: Service@Desco.com

1.4 Emergency telephone number

Emergency Number: (909) 627-8178

SECTION 2 — HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

No reportable hazardous components as defined by the Globally Harmonized System (OSHA Hazcom 29 CFR 1910.1200, (EU) No.453/2010 and Japan JIS 7253:2012).

2.2 Label elements

Not a dangerous substance according to GHS.

2.3 Other hazards

None known.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

No reportable hazardous components as defined by the Globally Harmonized System (OSHA Hazcom 29 CFR 1910.1200, (EU) No.453/2010 and Japan JIS 7253:2012).

SECTION 4 — FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|-------------------------|--|
| If inhaled | No treatment specified. In case of irritation when dust is inhaled, provide for plenty of fresh air. |
| In case of skin contact | When used and handled appropriately no special measures are needed. |
| In case of eye contact | No special precautions required. |
| If swallowed | No emergency care is anticipated. If large quantities of this material are swallowed, call a physician immediately. Call your local Poison Control Center (In the U.S. call 1-800-222-1222). |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|---|---|
| Most important symptoms and effects, both acute and delayed | The possible symptoms known are those derived from the labelling (see section 2). No additional symptoms are known. |
|---|---|

5.3 Advice for firefighters

Wear full protective clothing and NIOSH/MSHA-approved positive pressure, self-contained breathing apparatus.
Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No special precautions required.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Pick up and transfer to properly labelled containers.

If product is released from trucks in roads, place signposts and remove the spill using vacuum cleaning systems.

6.4 Reference to other sections

See SECTION 8 and SECTION 13.

Avoid dust formation; avoid dry sweeping

Use vacuum suction unit, or shovel into bags.

SECTION 7 — HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Hygiene measures Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in dry place

Advice on storage compatibility No conditions to be specially mentioned.

Storage stability Stable under recommended storage conditions.

7.3 Specific end uses Not relevant

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Engineering measures Use ventilation adequate to keep exposures below recommended exposure limits. See the safety datasheet.

8.2 Exposure controls

Personal protective equipment

Respiratory protection Use local exhaust if dusting occurs. Good general ventilation is adequate in the absence of dusts.

| | |
|--|-------------------|
| Appearance | Solid form |
| Color: | Various |
| Odor: | None |
| Odor Threshold: | Not available |
| pH: | Not determined |
| Melting point/range: | Not determined |
| Boiling point/boiling range: | Not determined |
| Flash point: | Does not flash |
| Evaporation rate: | Non-volatile |
| Upper explosion limit: | Not applicable |
| Lower explosive limit: | Non applicable |
| Vapor pressure: | Non applicable |
| Vapor density relative to air: | Non applicable |
| Density: | Not determined |
| Bulk density: | Not determined |
| Solubility (Water): | No data available |
| Partition coefficient (n-octanol/water): | No data available |
| Auto-ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Viscosity (dynamic): | Not applicable |
| Viscosity (kinematic): | Not applicable |

9.2 Other information

None known.

SECTION 10 — STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

OSHA Not listed
NTP Not listed

Experience with human exposure

Product:

General Information The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12 — ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Product:

Additional ecological information According to experience and to the information currently available, the product has no harmful effects on the environment if used correctly as intended.

SECTION 13 — DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

RCRA - Resource Conservation and Recovery Authorization Act This product, if discarded as sold, is not a Federal RCRA hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

Water Code NONE

Waste from residues Dispose of this product in accordance with all applicable local, state and federal regulations.

SECTION 14 — TRANSPORT INFORMATION

DOT Not restricted

IATA Not restricted

IMDG Not restricted

SECTION 15 — REGULATORY INFORMATION

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

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

No SARA Hazards

SARA 302

No Chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This product is not subject to SARA Title III Section 313 reporting requirements under 40 CFR 372.

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:

TSCA

All components of this product are listed or excluded from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) Inventory.

15.2 Chemical Safety Assessment

Not relevant

SECTION 16 — OTHER INFORMATION

HMIS RATING

Health 0, Flammability 0, Reactivity 0, Personal Protection B

NFPA RATING

Special Hazard: N/A, Health: 0, Flammability: 0, Instability: 0

SDS Updated

2018-01-04

Disclaimer

OTHER INFORMATION: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

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