

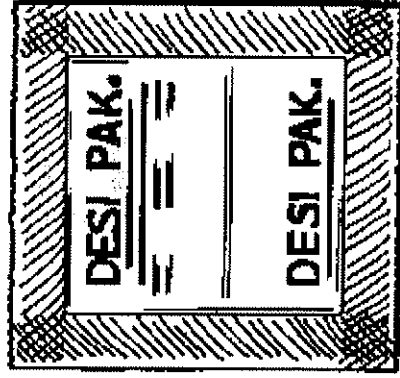


THE DATASHEET OF
13842



Desiccant is a drying agent used to lower the moisture content of air inside a closed space, such as an MBB bag. 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. Figure 4 is a reference table indicating recommended minimum amounts of desiccant that should be used with MBB bags.



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

Table for recommended desiccant usage. Information taken from Desco Handbook, Page 8.

*MIH - Information taken from Desco in the following standard packages:

Item #	Unit Size	Std. Package	Dimensions
13840	1/2 unit	Box of 700	1.2" x 2.4"
13842	1 unit	Box of 500	5" x 3.5"
13850	1/2 unit	Pail of 550	1.2" x 2.4"
13852	1 unit	Pail of 300	5" x 3.5"

Desiccant packs sold by Desco meet the requirements of MIL-STD-2000.

"...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 TR20.20 section 5.4.3.2.2)

Desiccant Pack

DESCO

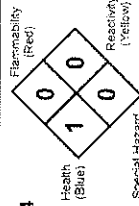
Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200. Standard must be consulted for specific requirements.

NFPA Designation 704

Degree of Hazard:

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

**SECTION I -- PRODUCT IDENTIFICATION AND THE COMPANY****Product information**

Trade Name and Synonyms:
Company:

Desi Pak®
Desco

3651 Walnut Ave
Chino, CA, 91710
(909) 627-8178
(909) 627-7449

Chemical Family:

Montmorillonite Clay Mineral
Smectite Clay Mineral
Bentonite

Formula:

Calcium Aluminosilicate
(Ca)x(A1_{2-x}Mgm)Si₄O₁₀(OH)₂nH₂O

NFPA/HMIS

Health:

Fire:

Reactivity:

0
0
0

Specific Hazard:

See Section X

SECTION II -- HAZARDOUS INGREDIENTS

Hazardous Components in the Solid Mixture

COMPONENT	CAS No.	% by Weight	OSHA/PEL	ACGIH/TLV
Montmorillonite Clay Mineral	1302-78-9	≥ 99	5.0 mg/m ³ in respirable form	5.0 mg/m ³ in respirable form
Silicon dioxide (Crystalline Quartz)	14808-60-7	<1%		
Respirable Dust		Not Detectable	0.1 mg/m ³	0.1 mg/m ³

INGREDIENT HAZARD STATEMENT - This product contains less than 1% crystalline quartz (CAS #14808-60-7), which is in a non-respirable form. The product is in granular form, and packed in bags for use as a desiccant. Therefore, no exposure to quartz or clay dust is anticipated under normal use of this product.

CARCINOGENICITY

NTP? No

OSHA? No

Prolonged or repeated exposure may cause lung injury. Unless otherwise noted, all values are reported as 8-hour Time Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLV's refer to the 1989-90 Standards. All OSHA PEL's refer to 49 CFR Part 1910 Air Contaminants. Final Rule, January 19, 1989.

SECTION III -- PHYSICAL DATA

Appearance and Odor

Melting Point:

Solubility in Water:

Bulk Density:

Percent Volatile by Weight at 150° C:

SECTION IV -- FIRE EXPLOSION DATA

FIRE AND EXPLOSION HAZARD - Negligible fire and explosion hazard. No reaction with incompatible substances.

FLASH POINT - Nonflammable.

FIREFIGHTING MEDIA - Dry chemical, water spray, or foam.

FIREFIGHTING - Nonflammable solids, liquids or gases. Containers may become hot if exposed to flames with water from the side until well after fire is out. For large quantities, use unmanned hose holder or monitor nozzles; if this is impossible, use fog stream. Withdraw immediately in case of rising sound from venting or discoloration of the tank due to fire.

SECTION V -- HEALTH HAZARD DATA

This material is normally packaged and contained in a bag. It is classified a nuisance dust, and may cause health hazards if contact with the eyes and skin. Prolonged inhalation may cause irritation of the respiratory tract and/or lung damage. If large amounts are ingested, irritation of the gastrointestinal tract with eye tissue may result in irritation.

Prolonged or repeated contact with the skin in the absence of protective clothing may result in irritation.

Desi Pak® clay may contain a small amount of crystalline silica in the respirable range in excess of the TLV may result in respiratory disease. Avoid breathing the dust. Use NIOSH/NIOSH TLV for crystalline silica may be exceeded.

FIRST AID (INHALATION) - Remove to fresh air immediately. Artificial respiration. Keep affected person warm and at rest.


FIRST AID (INGESTION) - If large amounts have been ingested, do not induce vomiting. Stomach siphon may be applied as well. Milk and medical attention immediately.

FIRST AID (EYES) - Wash eyes immediately and carefully from the inside out, lifting upper and lower eyelids occasionally. Get prompt medical attention.

FIRST AID (SKIN) - To avoid repeated or prolonged contact with the dust, use appropriate protective clothing. Wash with soap and a large amount of water. Irritation or inflammation develops.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View 13842 on WIN SOURCE](#)

 [Desco Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management