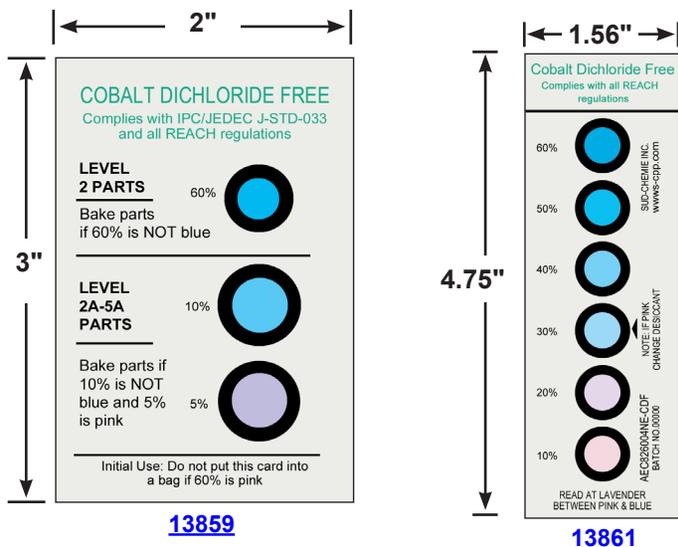




Made in the United States of America



## Description

Cobalt-Dichloride\* free Humidity Indicator Cards (HIC) contain moisture-sensitive spots that will change color from blue to pink when the indicated relative humidity is exceeded. HICs are packed inside the moisture barrier bag, along with the desiccant, to aid in determining the level of moisture to which the moisture-sensitive devices have been subjected to. For more information on HIC applications and use see Desco's [Statshield® Moisture Barrier Bag Application \(TB-2031\)](#) tech bulletin. Desco's 13859 HICs meet the requirements of IPC/JEDEC J-STD-033D, Type 1 section 1.5.7.

\*Cobalt-Dichloride is a candidate for inclusion in the European Chemical Agency (ECHA) REACH SVHC.

## Handling/Storage

1. Store humidity indicators in original sealed container with desiccant when possible before using, verify that indicator spots have not changed color
2. Replace desiccant bag after three openings of container.
3. Store in dry, cool area.
4. Keep indicators out of direct sunlight.
5. Keep humidity indicators away from water or steam.
6. Ammonia gases will damage humidity indicators.

### Humidity Indicator Card Storage and Limited Warranty:

For best results, Humidity Indicator Card inventory should be continually replenished. It is recommended that Humidity Indicator Cards be stored in their original un-opened canister in a dry, well ventilated room with a reasonably consistent temperature of 68°F (20°C) and be protected from exposure to direct sunlight. Humidity Indicator Cards should not be stored in ultraviolet sunlight, moisture, or heat. Humidity Indicator Cards over one year old (based on shipping/invoice date) should be evaluated by the user to determine acceptability for the user's application. Desco Industries, Inc. recommends those tracking useful life of product to use shipping/invoice date as Desco Industries, Inc. expressly warrants that for a period of one (1) year from the date of purchase, our Humidity Indicator Cards will be free of defects in material (parts) and workmanship (labor). See details of Limited Warranty online at [Desco.com/Warranty.aspx](http://Desco.com/Warranty.aspx)

Specifications and procedures subject to change without notice.

Item	Card Size	Std. Package	Relative Humidity
<a href="#">13859</a>	2" x 3"	125 pieces / can	5/10/60
<a href="#">13861</a>	1.56" x 4.75"	200 pieces / can	10/20/30/40/50/60

The [13859](#) humidity indicator card meets the requirements of IPC/JEDEC J-STD-033D, Type 1.

### RoHS, REACH and Conflict Minerals, Statement

See the Desco Industries RoHS, REACH, and Conflict Minerals Statement: [DescoIndustries.com/PDF/RoHS2Statement.pdf](http://DescoIndustries.com/PDF/RoHS2Statement.pdf)

See the Desco Limited Warranty: [Desco.DescoIndustries.com/Limited-Warranty.aspx](http://Desco.DescoIndustries.com/Limited-Warranty.aspx)

## COBALT-DICHLORIDE FREE HUMIDITY INDICATOR CARDS

# DESCO

DESCO WEST: 3651 WALNUT AVE., CHINO, CA 91710 WEB SITE: [Desco.com](http://Desco.com)  
PHONE (909) 627-8178

DESCO EAST: ONE COLGATE WAY, CANTON, MA 02021-1407  
PHONE (781) 821-8370

DRAWING NUMBER  
13859

DATE:  
February  
2019

### Sufficient Information for Safe Use

This document has been prepared in order to provide sufficient information for safe use of the product.

### FIRST AID MEASURES

General Advice:	None
If Inhaled:	Move to fresh air.
In case of skin contact:	Wash off immediately with soap and plenty of water.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If swallowed:	Rinse mouth
Most important symptoms and effects, both acute and delayed:	There are no acute and delayed symptoms and effects observed. No information available.
Notes to physician	Treat symptomatically

### HANDLING AND STORAGE

Advice on safe handling	Avoid formation of dust and aerosols. Handle with care to avoid abrasion or breakage.
Conditions for safe storage	Keep tightly closed in a dry and cool place.
Technical measures/Precautions	Keep in a dry place.
Materials to avoid	No materials to be especially mentioned.
Further information on storage stability	Stable under recommended storage conditions.

### EXPOSURE CONTROL/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substance with occupational exposure limit values.

**Engineering Measures:** None

#### Personal protective equipment

Respiratory protection	Not required
Hand Protection Remarks	Chemical-resistant protective gloves according to EN 374, EN 388, EN 420.
Eye Protection	Not required
Skin and body protection	Not required

### OTHER INFORMATION

DII non-chemical products meet the definition of "article" under Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1200(c) and Article 4(8) and Section 2.1 of Annex I of Classification, Labeling and Packaging (CLP) Regulation for not providing Safety Data Sheet (SDS).

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. NOTE: For EU-based downstream user, please contact your national REACH helpdesk if you have further questions on this topic. Revision Date: 2019-01-15

#### RoHS, REACH and Conflict Minerals, Statement

See the Desco Industries RoHS, REACH, and Conflict Minerals Statement:  
[DescoIndustries.com/PDF/RoHS2Statement.pdf](https://www.descoindustries.com/PDF/RoHS2Statement.pdf)

#### See the Desco Limited Warranty:

[Desco.DescoIndustries.com/Limited-Warranty.aspx](https://www.descoindustries.com/Limited-Warranty.aspx)