

SAFETY DATA SHEET

HI Card, MS051015, 5, 10, 15% RH, Uline

Page 1

Substance key: SCIREVHI9001
Version : 2 - 1 / USA

Revision Date: 07/07/2015
Date of printing :09/09/2015

SECTION 1. IDENTIFICATION

Identification of the company:	Uline Shipping Supplies 12575 Uline Drive Pleasant Prairie, WI 53158 Telephone No.: 1-800-295-5510
	Emergency tel. number: +1 800-424-9300(CHEMTREC)


Trade name: HI Card, MS051015, 5, 10, 15% RH, Uline
Material number: 253953
Synonyms: Reversible Humidity Indicator II
Primary product use: Humidity indicator
Chemical family: Humidity Indicator

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Respiratory sensitisation : Category 1
Skin sensitisation : Category 1
Germ cell mutagenicity : Category 2
Carcinogenicity (Inhalation) : Category 1B
Reproductive toxicity : Category 1B

GHS Label element

Hazard pictograms : 

Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341 Suspected of causing genetic defects.
H350i May cause cancer by inhalation.
H360 May damage fertility or the unborn child.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

SAFETY DATA SHEET

HI Card, MS051015, 5, 10, 15% RH, Uline

Page 2

Substance key: SCIREVHI9001

Revision Date: 07/07/2015

Version : 2 - 1 / USA

Date of printing :09/09/2015

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P285 In case of inadequate ventilation wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Cobalt dichloride	7646-79-9	< 5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

- If inhaled : not required
No treatment specified.
- In case of skin contact : Wash area with mild soap and copious amounts of water.
Call a physician if irritation develops or persists.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,
for at least 15 minutes.
Get medical attention immediately if irritation develops and persists.
- 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).
- Most important symptoms : The possible symptoms known are those derived from the

SAFETY DATA SHEET

HI Card, MS051015, 5, 10, 15% RH, Uline

Page 3

Substance key: SCIREVHI9001

Revision Date: 07/07/2015

Version : 2 - 1 / USA

Date of printing :09/09/2015

and effects, both acute and delayed

labelling (see section 2).
No additional symptoms are known.

Notes to physician

: Chronic ingestion may cause blood abnormalities (polycythemia), increased clotting time, hyperplasia of the bone marrow and thyroid gland, cardiomyopathy, and damage to the pancreas in sensitive individuals.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Hydrogen chloride
breathable cobalt/cobalt oxide dust

None known.

Further information : Wear full protective clothing and NIOSH/MSHA-approved positive pressure, self-contained breathing apparatus.
Can burn in a fire.

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wearing appropriate personal protective equipment, contain spill and collect into a suitable container.
No special precautions required.
Refer to Section 8 for more information.

SECTION 7. HANDLING AND STORAGE

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

Technical measures/Precautions : Store in a dry place.

SAFETY DATA SHEET

HI Card, MS051015, 5, 10, 15% RH, Uline

Page 4

Substance key: SCIREVHI9001
Version : 2 - 1 / USA

Revision Date: 07/07/2015
Date of printing :09/09/2015

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Cobalt dichloride	7646-79-9	TWA	0.02 mg/m ³ (Cobalt)	ACGIH
	Further information: Pulmonary function, Asthma, Myocardial effects, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Confirmed animal carcinogen with unknown relevance to humans, varies			

Engineering measures : No special ventilation requirements.

Personal protective equipment

Respiratory protection : Follow facility guidelines.

Hand protection

Remarks

: Impervious rubber such as neoprene, nitrile, natural rubber, butyl rubber, PVC, or teflon. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection : Follow facility guidelines in the absence of dusts.

Skin and body protection : Wear protective clothing, including long sleeves and gloves, to prevent skin contact.
Thoroughly wash clothing before reuse.
Use of proper hygiene practices in the workplace is recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solid form

Colour : blue to pink

Odour : none

Odour Threshold : not available

pH : not determined

Melting point : not determined

SAFETY DATA SHEET

HI Card, MS051015, 5, 10, 15% RH, Uline

Page 5

Substance key: SCIREVHI9001

Revision Date: 07/07/2015

Version : 2 - 1 / USA

Date of printing :09/09/2015

Boiling point	:	not determined
Flash point	:	Not applicable
Evaporation rate	:	not available
Flammability (solid, gas)	:	not determined
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Density	:	not determined
Bulk density	:	not determined
Solubility(ies) Water solubility	:	slightly soluble
Partition coefficient: n- octanol/water	:	no data available
Auto-ignition temperature	:	not determined
Decomposition temperature	:	no data available
Viscosity Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	:	None known.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

SAFETY DATA SHEET

HI Card, MS051015, 5, 10, 15% RH, Uline

Page 6

Substance key: SCIREVHI9001
Version : 2 - 1 / USA

Revision Date: 07/07/2015
Date of printing :09/09/2015

Eye contact
Skin contact
Ingestion

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Carcinogenicity

IARC : Listed
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

Ecotoxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

Product:

Additional ecological information : May cause long lasting harmful effects to aquatic life.
Do not allow to enter ground water, waterways or waste water.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Act
Waste Code : This product, if discarded as sold, is not a Federal RCRA hazardous waste.
: NONE

Waste from residues : This product, if discarded as sold, is not a Federal RCRA hazardous waste. Processing, use or contamination of this

SAFETY DATA SHEET

HI Card, MS051015, 5, 10, 15% RH, Uline

Page 7

Substance key: SCIREVHI9001

Revision Date: 07/07/2015

Version : 2 - 1 / USA

Date of printing :09/09/2015

product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT	not restricted
IATA	not restricted
IMDG	not restricted

SECTION 15. REGULATORY INFORMATION

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 : Acute Health Hazard
Chronic Health Hazard

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

SARA 313 : This product contains the chemical or chemicals listed below which are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 ("SARA") and the requirements of 40 CFR Part 372:

Cobalt Compounds	Not Assigned	5 %
Cobalt	7440-48-4	2.3 %

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.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SAFETY DATA SHEET

HI Card, MS051015, 5, 10, 15% RH, Uline

Page 8

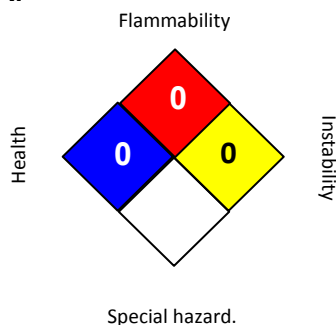
Substance key: SCIREVHI9001
Version : 2 - 1 / USA

Revision Date: 07/07/2015
Date of printing :09/09/2015

SECTION 16. OTHER INFORMATION

Further information

NFPA:



Revision Date : 07/07/2015

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.

US / USA