

## **SVHCs in Articles and Packaging**

On 28<sup>th</sup> October 2008 the European Chemicals Agency (ECHA) based in Finland, issued details around legal obligations that companies may have resulting from the inclusion of substances on the so called "Candidate List". These obligations are not only linked to the listed substances on their own or in preparations but also to their presence in articles.

Suppliers of articles which contain substances on the Candidate List in a concentration of >0.1% of the weight of the total article must inform their customers of the name of the substance and provide appropriate safe use data.

In general, packaging is regarded as a separate article to the item it contains. For example, the sealed bag a semiconductor is supplied in and, if included, a humidity indicator card should be considered separately. Likewise, anything to protect the semiconductor, such as a foam insert, is a separate article. The 0.1% threshold would apply to each individually.

Taking into account the above and the example used; an article's packaging would not need to be mentioned in relation to the article itself but would need to be mentioned separately, via the safety data.

**Please refer to the following data sheet for details of any SVHC contained in the packaging of this product.**

Update  
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03.05.2005Version  
1**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product information**

Commercial Product Name : Reversible Humidity Indicator III

Company : Süd-Chemie AG  
Business Unit Performance Packaging  
Ostenriederstrasse 15  
85368 Moosburg

Telephone : +49876182765  
Telefax : +49876182755

Contact Point : BPE +49 8761/82-765

Emergency telephone number : +49 (0)613284463 only for working place emergency  
(contact only in german or english)

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical nature** : cobalt dichloride on cardboard

**Usage** : Indicator for air humidity

Components	EINECS	Symbol(s)	R-phrases	Concentration
COBALT DICHLORIDE	231-589-4	T, N	R49, R22, R42/43, R50/53	< 0,25 %

**3. HAZARDS IDENTIFICATION**

none under normal use

**4. FIRST AID MEASURES**

General advice : none

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin contact : Wash off with soap and plenty of water.

Inhalation : n.a.

Ingestion : Rinse mouth.

**Notes to physician**

Treatment : none

**5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures appropriate to the environment.

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Extinguishing media which  
must not be used for safety  
reasons : none

**6. ACCIDENTAL RELEASE MEASURES**

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Methods for cleaning up : Take up contaminated material by mechanical means, load into clean containers, and dispose of in accordance with legal regulations.

**7. HANDLING AND STORAGE****Handling**

Safe handling advice : No special precautions required.

**Storage**

Requirements for storage  
areas and containers : Keep in a dry place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value	Basis / Remarks
COBALT	7440-48-4	<b>0,1 mg/m<sup>3</sup></b>	Germany TRGS 900 Limit Values TRK Data Oct, 1998

**Personal protective equipment**

Respiratory protection : n.a.  
Hand protection : Chemical-resistant protective gloves according to EN 374, EN 388, EN 420  
Eye protection : n.a.  
Skin and body protection : Not required  
Hygiene measures : Wash off with warm water and soap.  
Protective measures : Prophylactic use of protective ointment (barrier cream) is recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form : Plates  
Colour : pink to blue  
Odour : none

**Other data**

Water solubility : partly soluble, max. 600 ppm CoCl<sub>2</sub> can be leached out.  
pH : 4,5 - 6



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### 10. STABILITY AND REACTIVITY

- Hazardous reactions  
(Conditions to avoid) : hygroscopic
- Hazardous reactions  
(Materials to avoid) : alkali metals
- Information about  
decomposition : No decomposition if stored and applied as directed.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

- Acute oral toxicity : LD50 rat  
Dose: 766 mg/kg  
( cobalt(II)chloride-hexahydrate )

#### irritation, Sensitization, Other data Toxicology

- Sensitization : May cause sensitization of susceptible persons by skin contact.
- Repeated dose toxicity : no data available

### 12. ECOLOGICAL INFORMATION

- Decomposition : not readily biodegradable.

#### Ecotoxicity effects

- Ecotoxicity : no data available

- Additional information about  
ecology : Heavy metals should not be released into the environment.
- Water contaminating class : (Selbsteinstufung nach VwVwS-Konzept)  
WGK 1 slightly water endangering

### 13. DISPOSAL CONSIDERATIONS

- Product : Dispose as special waste Can be landfilled or incinerated,  
when in compliance with the Environmental Protection  
(Duty of Care) Regulations 1991.

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1**14. TRANSPORT INFORMATION**

- Land transport** : Not classified as dangerous in the meaning of transport regulations.
- Sea transport** : Not classified as dangerous in the meaning of transport regulations.
- Air transport** : Not classified as dangerous in the meaning of transport regulations.

**15. REGULATORY INFORMATION**

General advice : The product does not need to be labelled in accordance with EC directives or respective national laws.

Hazardous components which must be listed on the label:

- Not applicable

Other data:

Contains: COBALT DICHLORIDE May produce an allergic reaction.

Other information : Handle in accordance with good industrial hygiene and safety practice.

**Notification status:** preparation

Components / CAS-No.	Registered in / No.	Status
COBALT DICHLORIDE 7646-79-9	AICS	listed
	DSL	listed
	INV (CN)	listed
	ENCS (JP) (1)-06095	listed
	TSCA	listed
	EINECS 231-589-4	listed
	KECI (KR) KE-06095	listed
PICCS (PH)	listed	

**16. OTHER INFORMATION**

**Relevant R-Phrases acc. Chapter 2 and 3** : R22 - Harmful if swallowed.  
R42/43 - May cause sensitization by inhalation and skin contact.  
R49 - May cause cancer by inhalation.



**SAFETY DATA SHEET** according to EC Directive 2001/58/EC

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R50/53 - Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

Responsible for SDS: Environmental Protection Contact person: Dep. CEQ Tel.: 08761/82-654

The information presented herein is believed to be accurate, but is not warranted.

It does not represent any assurance of properties of the product.

The specifications are to be drawn from the corresponding leaflet.

A vertical bar (|) in the left margin indicates an amendment from the previous version.

**Legend**

n.a.: not applicable

n.av.: not available

n.r.: not relevant