

Safety data sheet
according to 1907/2006/EC, Article 31

Printing 25.07.2012

version number 2

Revision: 09.07.2012

Trade name: STANDARD SOLUTION B

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

***Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

***Eye protection:** Goggles recommended during refilling

9 Physical and chemical properties

Information on basic physical and chemical properties**General Information*****Appearance:**

Form:	Liquid
Colour:	According to product specification
*Odour:	Characteristic
*Odour threshold:	Not determined.

***pH-value:** Not determined.

***Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C

***Flash point:** Not applicable.

***Flammability (solid, gaseous):** Not applicable.

***Ignition temperature:**

Decomposition temperature: Not determined.

***Self-igniting:** Product is not selfigniting.

***Danger of explosion:** Product does not present an explosion hazard.

***Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

***Vapour pressure at 20°C:** 23 hPa

***Density at 20°C:** 1.11417 g/cm³

***Relative density** Not determined.

***Vapour density** Not determined.

***Evaporation rate** Not determined.

***Solubility/ miscibility with water:**

Not miscible or difficult to mix.

***Partition coefficient (n-octanol/water):** Not determined.

***Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

***Solvent content:**

Organic solvents: 0.0 %

***Other information** No further relevant information available.

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10 Stability and reactivity

*Reactivity

*Chemical stability

*Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

*Possibility of hazardous reactions No dangerous reactions known.

*Conditions to avoid No further relevant information available.

*Incompatible materials: No further relevant information available.

*Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

*Information on toxicological effects

*Acute toxicity:

*LD/LC50 values relevant for classification:

7646-79-9 cobalt dichloride

Oral LD50 80 mg/kg (rat)

*Primary irritant effect:

*on the skin: No irritant effect.

*on the eye: No irritating effect.

*Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

*Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

Carcinogenic if inhaled.

12 Ecological information

*Toxicity

*Aquatic toxicity: No further relevant information available.

*Persistence and degradability No further relevant information available.

*Behaviour in environmental systems:

*Bioaccumulative potential No further relevant information available.

*Mobility in soil No further relevant information available.

*Ecotoxicological effects:

*Remark: Toxic for fish

*Additional ecological information:

*General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

*Results of PBT and vPvB assessment

*PBT: Not applicable.

*vPvB: Not applicable.

*Other adverse effects No further relevant information available.

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13 Disposal considerations***Waste treatment methods*****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.**14 Transport information*****UN-Number*****ADR, IMDG, IATA**

UN1760

UN proper shipping name**ADR**

1760 CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID, FERRIC CHLORIDE), ENVIRONMENTALLY HAZARDOUS CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID, FERRIC CHLORIDE), MARINE POLLUTANT

IMDG**IATA**

CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID, FERRIC CHLORIDE)

Transport hazard class(es)**ADR, IMDG*****Class**

8 Corrosive substances.

***Label**

8

IATA**Class**

8 Corrosive substances.

***Label**

8

Packing group**ADR, IMDG, IATA**

III

***Environmental hazards:**

Product contains environmentally hazardous substances: cobalt dichloride

***Marine pollutant:**

Yes

Symbol (fish and tree)

***Special marking (ADR):**

Symbol (fish and tree)

***Special precautions for user**

Warning: Corrosive substances.

***Danger code (Kemler):**

80

***EMS Number:**

F-A,S-B

***Segregation groups**

Acids

Transport in bulk according to Annex II of*MARPOL73/78 and the IBC Code**

Not applicable.

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Transport/Additional information:**ADR*****Tunnel restriction code** E***UN "Model Regulation":** UN1760, CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID, FERRIC CHLORIDE), ENVIRONMENTALLY HAZARDOUS, 8, III**15 Regulatory information*****Safety, health and environmental regulations/legislation specific for the substance or mixture*****National regulations:*****Technical instructions (air):**

Class	Share in %
Wasser	92.9
II	1.8
III	1.6

Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.Other regulations, limitations and prohibitive regulations*****Substances of very high concern (SVHC) according to REACH, Article 57**

7646-79-9 | cobalt dichloride

***Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Relevant Phrases:**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H350i May cause cancer by inhalation.

H360F May damage fertility.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R22 Harmful if swallowed.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

R37 Irritating to respiratory system.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R42/43 May cause sensitisation by inhalation and skin contact.

R49 May cause cancer by inhalation.

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

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***Department issuing MSDS: Health and Safety**

* : sds

Abbreviations and acronyms:RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)**ICAO: International Civil Aviation Organization**ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonized System of Classification and Labelling of Chemicals**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent*

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