

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

Printing 04.01.2019

version number 21

Revision: 01.11.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

***1.1 Product identifier**

***Trade name:** PRIMARY RED SOLUTION

***Article number:** EPRS01

***Registration number**

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

***1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

***Application of the substance / the mixture** Laboratory Chemicals

***1.3 Details of the supplier of the safety data sheet**

***Manufacturer/Supplier:**

Reagecon Diagnostics Ltd.

Shannon Free Zone,

Shannon,

Co. Clare,

Ireland.

Tel +353 61 472622

Fax +353 61 472642

***Further information obtainable by contacting:** sds@reagecon.ie

***1.4 Emergency telephone number:**

If availability of such services is limited for any reasons, such as hours of operation, or if there are limits on specific types of information provided, this shall be clearly stated.

EMERGENCY CONTACT NUMBER: 00-353-87-8395527 (Monday - Friday 8.30 - 17.00 GMT)

SECTION 2: Hazards identification

***2.1 Classification of the substance or mixture**

***Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 1B H350i May cause cancer by inhalation.

Repr. 1B H360F May damage fertility.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

***Hazard pictograms**

GHS07 GHS08 GHS09

Signal word Danger**Hazard-determining components of labelling:**

cobalt dichloride

***Hazard statements**

H302 Harmful if swallowed.

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

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H350i May cause cancer by inhalation.

H360F May damage fertility.

H410 Very toxic to aquatic life with long lasting effects.

***Precautionary statements**

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

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

P284 [In case of inadequate ventilation] wear respiratory protection.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment*****PBT:** Not applicable.***vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.***Dangerous components:**

CAS: 7646-79-9 EINECS: 231-589-4	cobalt dichloride Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350i; Repr. 1B, H360F; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	5.95%
	hydrochloric acid 37% Skin Corr. 1B, H314; STOT SE 3, H335	≤2.5%

***SVHC**

CAS: 7646-79-9	cobalt dichloride
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***Additional information:** For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures***4.1 Description of first aid measures*****General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

***After inhalation:**

Provide fresh air, warmth and rest. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Obtain medical attention.

In case of unconsciousness place patient stably in side position for transportation.

***After skin contact:**

Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

***After eye contact:**

Promptly wash eyes with plenty of water for up to 15 minutes. Open eyes wide apart and rinse well to remove any contact lenses. Do not remove contact lenses by hand. Continue to rinse. Get medical attention if symptoms persist.

***After swallowing:**

Call for a doctor immediately.

Do not induce vomiting; call for medical help immediately. Rinse mouth thoroughly with water and give large amounts of water to drink. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures***5.1 Extinguishing media*****Suitable extinguishing agents:**

Indications shall be given whether any extinguishing media are inappropriate for a particular situation involving the substance or mixture

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture** No further relevant information available.5.3 Advice for firefighters*****Protective equipment:**

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers

SECTION 6: Accidental release measures***6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment as described in Section 8 below. Keep unprotected persons away.

***6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

***6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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***6.4 Reference to other sections**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage***7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.

***Information about fire - and explosion protection:** Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities**Storage:**

***Requirements to be met by storerooms and receptacles:** No special requirements.

***Information about storage in one common storage facility:** Not required.

***Further information about storage conditions:** None.

***7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

***Additional information about design of technical facilities:** No further data; see item 7.

***8.1 Control parameters**

***Ingredients with limit values that require monitoring at the workplace:**

CAS: 7646-79-9 cobalt dichloride

WEL	Long-term value: 0.1 mg/m ³
	Carc, Sen

***Additional information:** The lists valid during the making were used as basis.

***8.2 Exposure controls**

***Personal protective equipment:**

***General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.

***Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Where risk assessment shows air-purifying respirators are appropriate use a respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges as back up to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

***Protection of hands:**



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Always ensure that gloves are inspected before use.

Selection of protective gloves must include consideration of the penetration times along with rates of diffusion and degradation. The selected glove should comply with the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.

***Material of gloves**

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.

Nitrile gloves are recommended for splash contact.

This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific use scenario.

***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

SECTION 9: Physical and chemical properties

9.1 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/freezing point: Undetermined.

Initial boiling point and boiling range: 100 °C

***Flash point:** Not applicable.

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

***Decomposition temperature:** Not determined.

***Auto-ignition temperature:** Product is not selfigniting.

***Explosive properties:** 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:** 1.14393 g/cm³

***Relative density** Not determined.

***Vapour density** Not determined.

***Evaporation rate** Not determined.

***Solubility/ miscibility with water:**

Not miscible or difficult to mix.

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Partition coefficient: n-octanol/water:** Not determined.Viscosity:** **Dynamic:** Not determined. **Kinematic:** Not determined.***9.2 Other information** No further relevant information available.**SECTION 10: Stability and reactivity*****10.1 Reactivity** No further relevant information available.***10.2 Chemical stability*****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.***10.3 Possibility of hazardous reactions** No dangerous reactions known.***10.4 Conditions to avoid** No further relevant information available.***10.5 Incompatible materials:** No further relevant information available.***10.6 Hazardous decomposition products:** No dangerous decomposition products known.**SECTION 11: Toxicological information*****11.1 Information on toxicological effects*****Acute toxicity**

Harmful if swallowed.

***LD/LC50 values relevant for classification:**

CAS: 7646-79-9 cobalt dichloride

Oral LD50 80 mg/kg (rat)

Primary irritant effect:**Skin corrosion/irritation** Based on available data, the classification criteria are not met.***Serious eye damage/irritation** Based on available data, the classification criteria are not met.***Respiratory or skin sensitisation**

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

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**Germ cell mutagenicity**

Suspected of causing genetic defects.

***Carcinogenicity**

May cause cancer by inhalation.

***Reproductive toxicity**

May damage fertility.

STOT-single exposure** Based on available data, the classification criteria are not met.STOT-repeated exposure** Based on available data, the classification criteria are not met.***Aspiration hazard** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information*****12.1 Toxicity*****Aquatic toxicity:** No further relevant information available.***12.2 Persistence and degradability** No further relevant information available.***12.3 Bioaccumulative potential** No further relevant information available.

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*12.4 **Mobility in soil** No further relevant information available.***Ecotoxicological effects:*****Remark:** Toxic for fish***Additional ecological information:*****General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

*12.5 **Results of PBT and vPvB assessment*****PBT:** Not applicable.***vPvB:** Not applicable.*12.6 **Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations***13.1 **Waste treatment methods*****Recommendation**

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

***European waste catalogue**

HP 7	Carcinogenic
HP 10	Toxic for reproduction
HP 11	Mutagenic
HP 14	Ecotoxic

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information***14.1 **UN-Number*****ADR, IMDG, IATA**

UN1760

*14.2 **UN proper shipping name*****ADR**

1760 CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID), ENVIRONMENTALLY HAZARDOUS

***IMDG**

CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID, cobalt dichloride), MARINE POLLUTANT

***IATA**

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

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

8 Corrosive substances.

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*Label	8
*IATA	
	
*Class	8 Corrosive substances.
*Label	8
*14.4 Packing group *ADR, IMDG, IATA	III
*14.5 Environmental hazards:	Product contains environmentally hazardous substances: cobalt dichloride
*Marine pollutant:	Yes Symbol (fish and tree)
*Special marking (ADR):	Symbol (fish and tree)
*14.6 Special precautions for user *Danger code (Kemler): *EMS Number: *Segregation groups *Stowage Category *Stowage Code	Warning: Corrosive substances. 80 F-A,S-B Acids A SW2 Clear of living quarters.
*14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
*Transport/Additional information:	
*ADR *Limited quantities (LQ) *Transport category *Tunnel restriction code	5L 3 E
*UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID), 8, III, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

*15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

*Directive 2012/18/EU

*Named dangerous substances - ANNEX I None of the ingredients is listed.

*Seveso category E1 Hazardous to the Aquatic Environment

*Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

*Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

*REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 28, 30

*National regulations:

Class	Share in %
Wasser	91.6
II	6.0

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***Waterhazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.

***Other regulations, limitations and prohibitive regulations**

***Substances of very high concern (SVHC) according to REACH, Article 57**

CAS: 7646-79-9	cobalt dichloride
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***15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.
 H317 May cause an allergic skin reaction.
 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.

***Department issuing SDS:** Health and Safety

***Contact:** sds@reagecon.ie

***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 Organisation
 REACH (Registration, Evaluation, Authorisation and restriction of Chemicals)
 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 Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Resp. Sens. 1: Respiratory sensitisation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Muta. 2: Germ cell mutagenicity – Category 2
 Carc. 1B: Carcinogenicity – Category 1B
 Repr. 1B: Reproductive toxicity – Category 1B
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1