

## 1. Product and Company Identification

www.rxmarine.com

Product Name Polish Preparation for Metal ZC  
Part Number RXSOL-13-9492-278

### Company Details:

RXSOL CHEMO PHARMA INTERNATIONAL

C-356 S CENTRAL ROAD INDIRA NAGAR

MIDC INDUSTRIAL AREA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

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## 2. Composition / Information on ingredients

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Component	Classification	Concentration
Mixture of organic and non organic compound	H314, H318	100%
with Citric acid and Borax.		

## 3. Hazards Identification

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### Classification of the substance or mixture

Acute toxicity, (Category 4)	H302: Harmful if swallowed.
Skin corrosion, (Sub-category 1B)	H314: Causes severe skin burns and eye damage.
Serious eye damage, (Category 1)	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, (Category 3),	H335: May cause respiratory irritation.
Respiratory system	
Short-term (acute) aquatic	H400: Very toxic to aquatic life.
hazard, (Category 1)	
Long-term (chronic) aquatic	H410: Very toxic to aquatic life with long lasting effects.
hazard, (Category 1)	

### Label elements

Signal Word	Warning
Hazard statement	H302 Harmful if swallowed.
	H314 Causes severe skin burns and eye damage.
	H335 May cause respiratory irritation.

<p>Precautionary statement</p>	<p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>P260 Do not breathe dust.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.</p> <p>Remove contact lenses, if present and easy to do. Continue rinsing.</p>
<p>Hazard Statements</p> <p>Precautionary Statements</p>	<p>H314 Causes severe skin burns and eye damage.</p> <p>P260 Do not breathe dust.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.</p> <p>Remove contact lenses, if present and easy to do. Continue rinsing.</p>
<p>Supplemental Hazard Statements</p> <p>Other hazards</p>	<p>None</p> <p>This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.</p> <p>Ecological information:</p> <p>The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.</p> <p>Toxicological information:</p> <p>The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.</p>

## 4. First Aid Measures

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General Advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled	After inhalation: fresh air. Call in physician.
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
In case of eye contact	After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
If swallowed	After swallowing: make victim drink water (two glasses at most), avoid

Most important symptoms and effects, both acute and delayed	vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.
Indication of any immediate medical attention and special treatment needed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 No data available

## 5. Fire-fighting Measures

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Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture	Not combustible.  Fire may cause evolution of:  Hydrogen chloride gas  Ambient fire may liberate hazardous vapours.
Advice for firefighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Further information	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact.  Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.  For personal protection see section 8.
Environmental precautions	Do not let product enter drains.
Methods and material for containment and cleaning up	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
Reference to other sections	For disposal see section 13.

## 7. Handling and Storage

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Precautions for safe handling	For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities	
Storage conditions	Tightly closed. Dry.  Recommended storage temperature see product label
Storage class	Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### Control parameters

### Ingredients with workplace control parameters

### Derived No Effect Level (DNEL)

Application Area	Routes of exposure	Health effect	Value
Worker DNEL, longterm	inhalation	Systemic effects	1 mg/m <sup>3</sup>
Worker DNEL, longterm	dermal	Systemic effects	
Consumer DNEL, longterm	inhalation	Systemic effects	1,3 mg/m <sup>3</sup>
Consumer DNEL, longterm	dermal	Systemic effects	
Consumer DNEL, longterm	oral	Systemic effects	

### Compartment

### Exposure controls

### Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

#### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves

#### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves

#### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

#### Body Protection

Protective clothing

#### Respiratory protection

Required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P2

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions

of the producer.

These measures have to be properly documented.

Do not let product enter drains.

Control of environmental exposure

## 9. Physical and chemical properties

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Physical state	Powder
Color	White
Odor	Odorless
Melting point/freezing point	Melting point: 293 °C
Initial boiling point and boiling range	No data available
Flammability (solid, gas)	The product is not flammable.
Upper/lower flammability or explosive limits	No data available
Flash point	Not applicable
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Viscosity	Viscosity, kinematic: No data available  Viscosity, dynamic: > 100 - 200 mPa.s at 400 °C
Water solubility	851 g/l at 20 °C - OECD Test Guideline 105- completely soluble
Partition coefficient: n-octanol/water	Not applicable for inorganic substances
Vapor pressure	No data available
Density	2,93 g/cm <sup>3</sup> at 22 °C
Relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	None
Other safety information	
Bulk density	ca.1.400 - 1.800 kg/m <sup>3</sup>
Particle size	ca.0,288 mm - Mean particle size

## 10. Stability and reactivity

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Reactivity	No data available
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature)
Possibility of hazardous reactions	Violent reactions possible with:  sodium  Strong oxidizing agents
Conditions to avoid	No information available
Incompatible materials	Various metals
Hazardous decomposition products	In the event of fire: see section 5

## 11. Toxicological information

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Acute toxicity	<p>LD50 Oral - Rat - male and female - &gt; 6.740 mg/kg</p> <p>(OECD Test Guideline 401)</p> <p>Remarks: The value is given in analogy to the following substances: Butanedioic acid, sodium salt (1:1)</p> <p>LC50 Inhalation - Rat - male and female - 4 h - &gt; 1,284 mg/l - dust/mist</p> <p>(OECD Test Guideline 403)</p> <p>Remarks: The value is given in analogy to the following substances: fumaric acid</p> <p>Dermal: No data available</p>
Skin corrosion/irritation	<p>Skin - Rabbit</p> <p>Result: No skin irritation - 4 h</p> <p>(OECD Test Guideline 404)</p>
Serious eye damage/eye irritation	<p>Eyes - Rabbit</p> <p>Result: Irreversible effects on the eye - 24 h</p> <p>(OECD Test Guideline 405)</p>
Respiratory or skin sensitization	<p>Maximization Test - Guinea pig</p> <p>Result: negative</p> <p>(OECD Test Guideline 406)</p>
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	
Endocrine disrupting properties	
Assessment	<p>The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU)</p> <p>2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.</p> <p>Repeated dose toxicity - Rat - male and female - Oral - 13 Weeks - NOAEL (No observed adverse effect level) - 860 mg/kg</p> <p>Remarks: The value is given in analogy to the following substances: Butanedioic acid, sodium salt (1:1)</p> <p>To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p>

## 12. Ecological information

Toxicity	
Toxicity to fish	Semi-static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h  (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Semi-static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h  (OECD Test Guideline 202)
Toxicity to algae	Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 46,8 mg/l - 72 h  (OECD Test Guideline 201)
Toxicity to bacteria	Static test EC50 - activated sludge - > 300 mg/l - 3 h  (OECD Test Guideline 209)
Persistence and degradability	
Biodegradability	aerobic - Exposure time 28 d  Result: 96,55 % - Readily biodegradable.  (OECD Test Guideline 301E)
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties	
Product	
Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other adverse effects	No data available

### 13. Disposal considerations

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Waste Treatment Methods	No data available
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### 14. Transport information

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Polish Preparation For Metal ZC	ADR/RID: IMDG: IATA:
UN proper shipping name	ADR/RID: Not regulated for transport  IMDG: Not regulated for transport  IATA: Not regulated for transport
Transport hazard class(es)	ADR/RID: 4 IMDG: 4 IATA: 4
Packaging group	ADR/RID: III IMDG: III IATA: III

### 15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the	This material safety data sheet complies with the requirements of
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substance or mixture

**National legislation**

Seveso III: Directive 2012/18/EU of the

European Parliament and of the Council

on the control of major-accident hazards

involving dangerous substances.

Other regulations

Chemical Safety Assessment

Regulation (EC) No. 1907/2006.

E1 ENVIRONMENTAL HAZARDS

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

A Chemical Safety Assessment has been carried out for this substance.

## 16. Other information

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Other Information

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