



**SAFETY DATA SHEET**  
according to 1907/2006/EC, Article 31

**Platinum Investment binder , Platinum Plus binder**

Revision 1  
Revision date 2017-02-13

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

**1.1. Product identifier Product Part Number: Z14-302-PP**

Product name	Platinum Investment binder , Platinum Plus binder
Product code	Platinum - Platinum Plus binder CR098 021317

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

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites;
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**1.3. Details of the supplier of the safety data sheet**

Company	Romanoff International Supply Corporation
Address	9 Deforest Street, Amityville, NY 11701 USA. Tel: 631-842-2400
Web	www.romanoff.com
Telephone	+1 (631) 842-2400
Fax	+1 (631) 842-0028
Email address of the competent person	sales@romanoff.com

**1.4. Emergency telephone number**


Emergency telephone number	CHEMTREC , Account #620095
Company	24-Hour Telephone: USA & Canada: 1-800-424-9300 / Outside USA & Canada: 1-703-527-3887 Romanoff International Supply Corporation

**SECTION 2: Hazards identification**

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

2.1.1. Classification - 1999/45/EC	C; R34 Symbols: C: Corrosive.
Main hazards	Causes burns.
2.1.2. Classification - EC 1272/2008	Skin Corr. 1B: H314;

**2.2. Label elements**

Hazard pictograms	This substance / mixture has been classified in accordance with the US Federal OSHA Hazard Communication Standard 29CFR 1910.1200. Substance concentration band-ranges are presented, and minor ingredient composition maybe withheld, to protect trade secrets. 
Signal Word	Danger
Hazard Statement	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

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## 2.2. Label elements

<b>Precautionary Statement: Prevention</b>	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash (hands) thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Response</b>	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor/ . P321 - Specific treatment (see on this label). P363 - Wash contaminated clothing before reuse.
<b>Precautionary Statement: Storage</b>	P405 - Store locked up.
<b>Precautionary Statement: Disposal</b>	P501 - Dispose of contents/container to local and national regulations

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Phosphoric acid...% (Orthophosphoric acid)	015-011-00-6	7664-38-2	231-633-2		70 - 80%	C; R34	
Hydrochloric acid...%	017-002-01-X		231-595-7		1 - 10%	C; R34 Xi; R37	

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Phosphoric acid...% (Orthophosphoric acid)	015-011-00-6	7664-38-2	231-633-2		70 - 80%	Skin Corr. 1B: H314;	
Hydrochloric acid...%	017-002-01-X		231-595-7		1 - 10%	Skin Corr. 1B: H314; STOT SE 3: H335;	

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

<b>Inhalation</b>	Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
<b>Eye contact</b>	Causes burns. Causes severe inflammation and may damage the cornea. Seek medical attention.
<b>Skin contact</b>	Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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## 5.2. Special hazards arising from the substance or mixture

	Corrosive. Burning produces irritating, toxic and obnoxious fumes.
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## 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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## SECTION 6: Accidental release measures

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## 6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
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## 6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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## 6.3. Methods and material for containment and cleaning up

	Neutralise with sodium carbonate CAS 497-19-8. Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. Contact a licensed waste disposal company.
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## 6.4. Reference to other sections

	See section [2, 8 & 13] for further information.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Do not breathe gas/fumes/vapour/spray.
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### 7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.
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### 7.3. Specific end use(s)

	Foundry material.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure Limit Values

Phosphoric acid...% (Orthophosphoric acid)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 1
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 2
	WEL 8-hr limit mg/m3 total inhalable dust: -	WEL 15 min limit mg/m3 total inhalable dust: -
	WEL 8-hr limit mg/m3 total respirable dust: -	WEL 15 min limit mg/m3 total respirable dust: -

### 8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Wear eye/face protection.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Wear suitable respiratory equipment when necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Colourless
<b>Odour</b>	Slight/Pungent
<b>Odour threshold</b>	No data available
<b>pH</b>	2 - 3
<b>Melting point</b>	Not applicable.
<b>Freezing Point</b>	No data available
<b>Initial boiling point</b>	> 100 °C
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	1.5 (H <sub>2</sub> O = 1 @ 20 °C)
<b>Fat Solubility</b>	Not applicable.
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	Not applicable.
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	Not applicable.
<b>Solubility</b>	Soluble in water

## 9.2. Other information

<b>Conductivity</b>	Not applicable.
<b>Surface tension</b>	Not applicable.
<b>Gas group</b>	No data available
<b>Benzene Content</b>	Not applicable.
<b>Lead content</b>	Not applicable.
<b>VOC (Volatile organic compounds)</b>	Not applicable.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Amines. Finely powdered metals. Strong bases.

### 10.4. Conditions to avoid

Heat.  
Moisture.

### 10.5. Incompatible materials

Strong bases.

### 10.6. Hazardous decomposition products

oxides of phosphorus may be formed in fire conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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## 11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met. No observed effect level.
Skin corrosion/irritation	Skin corrosion.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met. No observed effect level.
Germ cell mutagenicity	Based on available data, the classification criteria are not met. No observed effect level.
Carcinogenicity	Based on available data, the classification criteria are not met. No observed effect level.
Reproductive toxicity	Based on available data, the classification criteria are not met. No observed effect level.
STOT-single exposure	Based on available data, the classification criteria are not met. No observed effect level.
STOT-repeated exposure	Based on available data, the classification criteria are not met. No observed effect level.
Aspiration hazard	Based on available data, the classification criteria are not met. No observed effect level.
Repeated or prolonged exposure	Causes severe burns.

## 11.1.4. Toxicological Information

Platinum Investment binder , Platinum Plus binder	Oral Rat LD50: 1500	Dermal Rabbit LD50: 2700
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## SECTION 12: Ecological information

### 12.1. Toxicity

Platinum Investment binder , Platinum Plus binder	Daphnia EC50/48h: 100.000 mg/l	Fish LC50/96h: 100.000 mg/l
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### 12.2. Persistence and degradability

	No data is available on this product.
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### 12.3. Bioaccumulative potential

### Partition coefficient

	Platinum Investment binder , No data available Platinum Plus binder
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### 12.4. Mobility in soil

	No data is available on this product.
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### 12.5. Results of PBT and vPvB assessment

	No data is available on this product.
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### 12.6. Other adverse effects

	No data is available on this product.
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## SECTION 13: Disposal considerations

### General information

	Dispose of in compliance with all local and national regulations.
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### Disposal methods

	This material and its container must be disposed of as hazardous waste.
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## SECTION 14: Transport information

### Hazard pictograms

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## Hazard pictograms



## 14.1. UN number

UN3264

## 14.2. UN proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (orthophosphoric acid, hydrochloric acid)

## 14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

## 14.4. Packing group

Packing group	II
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## 14.5. Environmental hazards

Environmental hazards	Unset
Marine pollutant	Unset

## ADR/RID

Hazard ID	80
Tunnel Category	(E)

## IMDG

EmS Code	F-A S-B
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## IATA

Packing Instruction (Cargo)	855
Maximum quantity	30 L
Packing Instruction (Passenger)	851
Maximum quantity	1 L

## SECTION 15: Regulatory information

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

Regulations	<p>U.S. FEDERAL REGULATIONS: Platinum binder and Platinum Plus binder.            UNITED STATES            DOT LABEL SYMBOL AND HAZARD CLASSIFICATION            DOT CORROSIVE</p> <p>CERCLA 103 Reportable Quantity: CAS #: 7664-38-2. Chemical: Phosphoric Acid CERCLA RQ: 5000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.</p> <p>SARA TITLE III:            311/312 HAZARD CATEGORIES:            Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: No</p>
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## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

313 REPORTABLE INGREDIENTS: CAS #: 7664-38-2 Chemical: Phosphoric acid  
 CAS # 7647-01-0 Chemical: Hydrogen Chloride  
 TITLE III NOTES: Not Applicable

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory. NATIONAL RESPON CENTER: U.S. Coast Guard National Center telephone # 1-800-424-8802

## U.S. STATE REGULATIONS

California Proposition 65: This product contains the following substances known to the State of California to cause cancer: none

## INTERNATIONAL REGULATIONS:

## CANADA

## WHMIS HAZARD SYMBOL AND CLASSIFICATION

Corrosive Class E

WHMIS Corrosive

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM): This product is WHMIS controlled. WHMIS exempt for uses regulated by the Food and Drug Act

CANADA INGREDIENT DISCLOSURE LIST: this product does contain ingredient(s) on the "Ingredient Disclosure List."

CANADIAN ENVIRONMENTAL PROTECTION ACT: All intentional ingredients are listed on the DSL (Domestic Substance List).

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

## 15.2. Chemical safety assessment

No data is available on this product.

## SECTION 16: Other information

## Other information

Revision	This document differs from the previous version in the following areas: 2 - 2.2. Label elements.
Text of risk phrases in Section 3	R34 - Causes burns. R37 - Irritating to respiratory system.
Text of Hazard Statements in Section 3	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. STOT SE 3: H335 - May cause respiratory irritation.

## Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use,

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**Further information**

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	storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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