



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Platinum binder

Revision 1
Revision date 2021-07-15

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

1.1. Product identifier

Product name Platinum binder

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;

1.3. Details of the supplier of the safety data sheet

Company	Ransom & Randolph
Address	3535 Briarfield Boulevard, PO Box 1570 Maumee, Ohio 43537 USA
Web	www.ransom-randolph.com
Telephone	+1 (419) 865-9497
Fax	+1 (419) 865-9997
Email	SDS@ransom-randolph.com
Email address of the competent person	dyouel@ransom-randolph.com

1.4. Emergency telephone number

Emergency telephone number	USA +1 419 865 9497
Company	Ransom & Randolph Co. 08:00-17:00 (US Eastern Std. / GMT minus 5)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Skin Corr. 1B: H314;
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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.
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Signal Word	Danger
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Hazard Statement	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
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Precautionary Statement: Prevention	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.
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Precautionary Statement: Response	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
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2.2. Label elements

Precautionary Statement: Storage Precautionary Statement: Disposal	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.
	P405 - Store locked up.
	P501 - Dispose of contents/container to local and national regulations

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Causes burns. Causes severe inflammation and may damage the cornea. Seek medical attention.
Skin contact	Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	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

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 (soda ash) or lime. 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.

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.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

7.3. Specific end use(s)

Foundry material.

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

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

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Amines. Finely powdered metals. Strong bases.
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10.4. Conditions to avoid

	Heat.
	Moisture.

10.5. Incompatible materials

	Strong bases.
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10.6. Hazardous decomposition products

	oxides of phosphorus may be formed in fire conditions.
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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 binder	Oral Rat LD50: 1500	Dermal Rabbit LD50: 2700
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SECTION 12: Ecological information

12.1. Toxicity

Platinum 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 binder No data available
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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).

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: 15 - Regulations.
Text of Hazard Statements in Section 3	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. 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, 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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