



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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A Binder for Neoloy E Investment

Revision 0

Revision date 2024-10-21

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

1.1. Product identifier

Product name	A Binder for Neoloy E Investment
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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	Ransom & Randolph	Australian Distributor
Address	3535 Briarfield Boulevard, PO Box 1570 Maumee, Ohio 43537 USA	Ultimate Dental Supply 660A South Rd MOORABBIN VIC 3189
Web	www.ransom-randolph.com	
Telephone	+1 (419) 865-9497	Telephone: 03 9532 1799
Fax	+1 (419) 865-9997	Email: info@ultimatedental.com.au
Email	RR.SDS@dentsply.com	
Email address of the competent person	RR.SDS@dentsply.com	

1.4. Emergency telephone number

Emergency telephone number	USA +1 419 865 9497	Australian Emergency number 13 11 26
Company	Ransom & Randolph Co. 08:00-17:00 (US Eastern Std. / GMT minus 5)	Poisons Hotline (24 hours/ 7 days)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Met. Corr. 1: H290; Skin Corr. 1C: 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. 
Signal Word	Danger
Hazard Statement	Met. Corr. 1: H290 - May be corrosive to metals. Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.
Precautionary Statement: Prevention	P234 - Keep only in original container. 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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2.2. Label elements

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 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. P390 - Absorb spillage to prevent material damage.
Precautionary Statement: Storage	P405 - Store locked up. P406 - Store in corrosive resistant/ container with a resistant inner liner.
Precautionary Statement: Disposal	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
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

Inhalation	Move the exposed person to fresh air. Seek medical attention.
Eye contact	Rinse immediately with plenty of water for 15 minutes. Contact lenses should be removed. Seek medical attention.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Rinse mouth thoroughly. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system.
Eye contact	May cause severe irritation to eyes and skin.
Skin contact	May cause severe irritation to eyes and skin.
Ingestion	May cause irritation to mucous membranes. Ingestion may cause nausea and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

	Get immediate medical advice/attention.
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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

	For small spills:.. Absorb with inert, absorbent material.
	For large spills:.. Neutralise with sodium carbonate (soda ash) or lime.
	Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. Contact a licensed waste disposal company.

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. Wear protective clothing. Ensure adequate ventilation of the working area. Do not breathe gas/fumes/vapour/spray. Wash hands after handling the product. Keep container tightly closed. Do NOT reuse empty containers.
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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. Keep only in the original container.
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7.3. Specific end use(s)

	Foundry material. Restricted to professional users.
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SECTION 8: Exposure controls/personal protection

Exposure Pattern - Workers

	exposure limits Hydrogen chloride gas - OSHA PEL (ceiling) 5 ppm , ACGIH TLV (ceiling) 2 ppm.
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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:.. Approved safety goggles. Wear:.. Face shield.
Skin protection - Handprotection	Wear:.. Nitrile rubber gloves. Neoprene gloves.
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	Not normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

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	Odourless
Odour threshold	No data available
pH	Not determined
Melting point	Not applicable.
Freezing Point	≈ 0 °C
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	0 (H ₂ O = 1 @ 20 °C)
Fat Solubility	Not applicable.
Partition coefficient	No data available
Autoignition temperature	Not applicable.
Viscosity	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	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

	gives off hydrogen by reaction with metals.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Hazardous polymerization does not occur.
	mixing water and acids must be supervised, due to large amounts of heat produced.

10.4. Conditions to avoid

	Heat. Direct sunlight.
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10.5. Incompatible materials

	Strong bases. Strong oxidising agents. Amines. metals, metal oxides, hydroxides, carbonates, cyanides, sulfides, sulfites, formaldehyde.
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10.6. Hazardous decomposition products

	Hydrogen chloride, Chlorine, hydrogen gas may be formed in fire conditions.
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SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute toxicity	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Ingestion may cause nausea and vomiting.
	HARMFUL IF SWALLOWED.
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

	No data available
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11.1.12. Mixture versus substance information

	Hydrochloric Acid. Oral Rabbit LD50 238-277 mg/kg,. Oral Rat LD50 = 700 mg/kg. Dermal Rabbit LD50 = > 5010 mg/kg. Inhalation Rat LC50/1 h = 3124 ppm.
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SECTION 12: Ecological information

12.1. Toxicity

	No data available
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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

	A Binder for Neoloy E Investment 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

	Not required.
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12.6. Other adverse effects

	No data is available on this product.
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Further information

	Hydrochloric Acid. Fish LC50/96h = 7.34 mg/L. Daphnia EC50/48h = 4.92 mg/L.
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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.

Disposal of packaging

Containers must be recycled in compliance with national legislation and environmental regulations.

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

UN1789

14.2. UN proper shipping name

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 III

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code F-A S-B

IATA

Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction (Passenger)	852
Maximum quantity	5 L

SECTION 15: Regulatory information

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

Regulations	U.S. FEDERAL REGULATIONS: A Binder for Neoloy E Investment UNITED STATES CERCLA 103 Reportable Quantity: RQ for A Binder for Neoloy E Investment > 250,000 pounds based on the RQ for CAS #: 7647-01-0. Chemical: Hydrochloric Acid CERCLA RQ: of 5000
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

311/312 HAZARD CATEGORIES:

Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: Yes

313 REPORTABLE INGREDIENTS: CAS #: 7647-01-0 Chemical: Hydrochloric acid

CAS # 7647-01-0 Chemical: Hydrogen Chloride

TITLE III NOTES: Not Applicable

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

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:

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

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.