



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Protective Coat Liquid

Revision 1
Revision date 2020-10-20

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

1.1. Product identifier

| | |
|--------------|------------------------|
| Product name | Protective Coat Liquid |
|--------------|------------------------|

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 | 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 |
| 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 Irrit. 2: H315; Eye Irrit. 2: H319; |
|--------------------------------------|--|

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 | Warning |
| Hazard Statement | Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. |
| Precautionary Statement: Prevention | P264 - Wash (hands) thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. |
| Precautionary Statement: Response | P302+P352 - IF ON SKIN: Wash with plenty of water/ . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. |

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2.2. Label elements

P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Other hazards Not applicable. PBT and vPvB assessment.

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 |
|-----------------------------|--------------|-----------|-----------|---------------------------|--------------|---|
| sodium silicate | | 1344-09-8 | 215-687-4 | | 1 - 10% | Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; |
| glycerin (Glycerol, mist) | | 56-81-5 | 200-289-5 | | 1 - 10% | |
| sodium 2-ethylhexyl sulfate | | 126-92-1 | 204-812-8 | | 1 - 10% | Eye Dam. 1: H318; |
| Ammonia solution | 007-001-01-2 | 1336-21-6 | 215-647-6 | | 0.5 - 1% | Skin Corr. 1B: H314; Aquatic Acute 1: H400; |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|--------------|---|
| Inhalation | Move the exposed person to fresh air. |
| Eye contact | Rinse immediately with plenty of water for 15 minutes holding the eyelids open. |
| Skin contact | Wash off immediately with plenty of soap and water. Remove contaminated clothing. |
| Ingestion | DO NOT INDUCE VOMITING. |

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

| | |
|--------------|---|
| Inhalation | May cause irritation to respiratory system. |
| Eye contact | Irritating to eyes. |
| Skin contact | Irritating to skin. |
| Ingestion | Ingestion may cause nausea and vomiting. |

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

| | |
|--------------|---|
| Inhalation | Seek medical attention if irritation or symptoms persist. |
| Eye contact | Seek medical attention if irritation or symptoms persist. |
| Skin contact | Seek medical attention if irritation or symptoms persist. |
| Ingestion | Seek medical attention if irritation or symptoms persist. |

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Wear suitable protective equipment.

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

Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

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. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Restricted to professional users.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

exposure limits: Ammonium Hydroxide (as ammonia) - 25 ppm TWA OSHA PEL, 35 ppm STEL ACGIH TLV.
exposure limits: glycerin - 5 mg/kg TWA OSHA PEL (respirable fraction), 15 mg/kg TWA OSHA PEL (total dust).

8.1.1. Exposure Limit Values

| | | |
|---------------------------|------------------------------|--------------------------------|
| glycerin (Glycerol, mist) | WEL 8-hr limit ppm: - | WEL 8-hr limit mg/m3: 10 |
| | WEL 15 min limit ppm: - | WEL 15 min limit mg/m3: - |
| | WEL 8-hr limit mg/m3 total - | WEL 15 min limit mg/m3 total - |
| | inhalable dust: | inhalable dust: |
| | WEL 8-hr limit mg/m3 total - | WEL 15 min limit mg/m3 total - |
| | respirable dust: | 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 | Approved safety goggles. |
| Skin protection - Handprotection | Chemical resistant gloves (PVC). |
| Respiratory protection | 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 | Translucent |
| Odour | Ammoniacal |
| Odour threshold | Not applicable. |
| pH | No data available |
| Melting point | No data available |
| Freezing Point | No data available |
| Initial boiling point | No data available |
| Flash point | Not applicable. |
| Evaporation rate | Not applicable. |
| Flammability (solid, gas) | Not applicable. |
| Vapour pressure | No data available |
| Vapour density | 0.6 |
| Relative density | 1.13 (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 determined |
| Solubility | Miscible in water |

9.2. Other information

| | |
|---|-----------------|
| Conductivity | Not applicable. |
| Surface tension | Not applicable. |
| Gas group | Not applicable. |
| Benzene Content | Not applicable. |
| Lead content | Not applicable. |
| VOC (Volatile organic compounds) | Not applicable. |

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|--|-----------------|
| | Not applicable. |
|--|-----------------|

10.2. Chemical stability

| | |
|--|---------------------------------|
| | Stable under normal conditions. |
|--|---------------------------------|

10.3. Possibility of hazardous reactions

| | |
|--|--|
| | Avoid contact with: Most common metals, forms. hydrogen gas. |
|--|--|

10.4. Conditions to avoid

| | |
|--|------------------------|
| | Heat. Direct sunlight. |
|--|------------------------|

10.5. Incompatible materials

| | |
|--|--|
| | most common metals. Acids. Oxidising agents. |
|--|--|

10.6. Hazardous decomposition products

| | |
|--|---|
| | Ammonia. Carbon dioxide (CO ₂). nitrogen. |
|--|---|

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------|---|
| Acute toxicity | Irritant, moderate eye. May cause irritation to skin, eyes and mucous membranes. Ingestion causes burns to the respiratory tract. May cause irritation to mucous membranes. |
|-----------------------|---|

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11.1. Information on toxicological effects

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | Irritating to eyes and skin. |
| Respiratory or skin sensitisation | No sensitization effects reported. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | No data available. |
| 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. |

11.1.4. Toxicological Information

| | | |
|----------|-------------------------------|----------------------------|
| glycerin | Inhalation Rat LC50/>570 h: 1 | Oral Rat LD50: 12600 mg/kg |
|----------|-------------------------------|----------------------------|

11.1.12. Mixture versus substance information

| | |
|--|--|
| | glycerin. Inhalation Rat LC50/>570 h = 1. sodium silicate. Oral Rat LD50 = 1960 mg/kg. sodium 2-ethylhexyl sulfate. Oral Rat LD50 = 4000mg/kg. |
|--|--|

SECTION 12: Ecological information

12.1. Toxicity

| | | |
|----------|------------------------------|--------------------------------|
| glycerin | Daphnia EC50/48h: 10000 mg/l | Fish LC50/96h: 10000.0000 mg/l |
|----------|------------------------------|--------------------------------|

12.2. Persistence and degradability

| | |
|--|-------------------------------------|
| | glycerin is. Readily biodegradable. |
|--|-------------------------------------|

12.3. Bioaccumulative potential

| | |
|--|---|
| | glycerin is not expected to bioconcentrate in fish and aquatic organisms. |
|--|---|

Partition coefficient

| | |
|--|--|
| | Protective Coat Liquid No data available |
|--|--|

12.4. Mobility in soil

| | |
|--|--|
| | glycerin. very high mobility in soils. |
|--|--|

12.5. Results of PBT and vPvB assessment

| | |
|--|-----------------|
| | Not applicable. |
|--|-----------------|

12.6. Other adverse effects

| | |
|--|-------------|
| | none known. |
|--|-------------|

SECTION 13: Disposal considerations

General information

| | |
|--|---|
| | Dispose of in compliance with all local and national regulations. |
|--|---|

SECTION 14: Transport information

14.1. UN number

| | |
|--|--|
| | The product is not classified as dangerous for carriage. |
|--|--|

14.2. UN proper shipping name

| | |
|--|--|
| | The product is not classified as dangerous for carriage. |
|--|--|

14.3. Transport hazard class(es)

| | |
|--|--|
| | The product is not classified as dangerous for carriage. |
|--|--|

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14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

Further information

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

Regulations

U.S. FEDERAL REGULATIONS: Protective Coat Liquid.

CERCLA 103 Reportable Quantity: Protective Coat Liquid has a RQ of 10,000 pounds based RQ for Ammonium Hydroxide of < 1%. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

Hazard Category For Section 311/312: see Section 2

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): none

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.

U.S. STATE REGULATIONS

California Proposition 65: none

INTERNATIONAL REGULATIONS:

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).

European Inventory of New and Existing Chemicals Substances (EINECS): All of the components in this product are listed on the EINECS inventory.

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 - Other hazards.
- 2 - 2.2. Label elements.
- 4 - Skin contact.
- 4 - Eye contact.
- 4 - Inhalation.
- 4 - Ingestion.
- 4 - Inhalation.

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Other information

| | |
|--|---|
| <p>Text of Hazard Statements in Section 3</p> | <p>4 - Eye contact. 4 - Skin contact. 4 - Ingestion. 4 - Inhalation. 4 - Eye contact. 4 - Skin contact. 4 - Ingestion. 5 - 5.1. Extinguishing media. 6 - 6.4. Reference to other sections.</p> <hr/> <p>Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation. Eye Dam. 1: H318 - Causes serious eye damage. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Aquatic Acute 1: H400 - Very toxic to aquatic life.</p> |
|--|---|

Further information

| | |
|--|---|
| | <p>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.</p> |
|--|---|