

* Section 1. Identification

Product identifier: Coating

- **Trade name:** Re-Flex Coating
- **Product Code:** RC-1, RC-5
- **Relevant identified uses of the substance or mixture:** Construction

Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:**

Roofing Products International, Inc.
57460 Dewitt St.
Elkhart, IN 46517-1078

- **Information department:** Technical Services Department

Emergency telephone number

ChemTrec: UNITED STATES 1(800)424-9300 INTERNATIONAL 703-527-3887

* Section 2. Hazard(s) identification

Classification of the substance or mixture



GHS08 Health hazard

- **Asp. Tox. 1 H304** May be fatal if swallowed and enters airways.

Label elements

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS08

Signal word: Warning

Warning statements

May cause skin irritation.
May cause eye irritation.
Harmful if swallowed.

Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use. Wear protective gloves and eye safety glasses.
Do not use in areas without proper ventilation.
IF SWALLOWED: Immediately call a doctor/physician. Do not induce vomiting.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with clean water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
Store in secure area.
Store in a well ventilated, cool area. Store in tightly sealed original containers.
Dispose of contents/container in accordance with local/regional/national/international regulations.
In case of fire use for extinction: CO₂, powder or foam.
Refer to Section 11 for toxicological information.

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Classification system

- NFPA ratings (scale 0 - 4)



Health = 1
Fire = 0
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



HEALTH 1 Health = 1
FIRE 0 Fire = 0
PHYSICAL HAZARD 0 Physical Hazard = 0

Other hazards

Results of PBT and vPvB assessment:

- PBT: Not applicable.
- vPvB: Not applicable.

*** Section 3. Composition/information on ingredients**

- Chemical characterization:** Mixtures
- Description:** White, moderately thick liquied with mild ammonia odor.

Components	CAS Number	% by Weight
Acrylic co-polymer	Not established	20 ±5%
Fillers and extenders	Mixture	40 ± 5%
Tetrachloroisophthalonitrile (biocide)	1897-45-6	1 ± 0.5%
Water	7731-18-5	40 ± 5%

Note: The above components and their percentages are provided for health and safety purposes, only. This document should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

*** Section 4. First-aid measures**

Description of first aid measures

- After inhalation:**
Not expected to be an inhalation hazard.
- After skin contact:**
Remove contaminated clothing and wash affected area with soap and water. Rinse affected area with clean water for 15 minutes. Wash clothing before reuse.
- After eye contact:**
immediately flush opened eye for several minutes under clean running water. Eye lids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
- After swallowing:**
Seek medical treatment immediately. Call a poison center or physician. Remove any dentures. Wash out mouth with clean water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Do Not Induce Vomiting. If vomiting occurs the head should be kept low to prevent vomit from entering lungs. Monitor for proper breathing. Do not give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing to provide unrestricted breathing. Seek immediate medical attention.

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Most important symptoms and effects, both acute and delayed

- **Eye Contact:**
Causes irritation.
- **Inhalation:**
Harmful if inhaled.
- **Skin Contact:**
May cause skin irritation.
- **Ingestion:**
Irritating to mouth, throat, and stomach.

Over-exposure signs and symptoms

- **Eye Contact**
- **Adverse symptoms may include the following:**
Pain or irritation. Redness and watering of the eyes.
- **Inhalation**
- **Adverse symptoms may include the following:**
Nausea or vomiting, headache with drowsiness or fatigue.
- **Skin Contact**
- **Adverse symptoms include the following:**
Irritation and redness.
- **Ingestion**
- **Adverse symptoms may include the following:**
Nausea and/or vomiting.

Indication of any immediate medical attention and special treatment needed

Information for Physician

If ingested, this material presents a aspiration hazard.

- **Specific treatments:**
Treat symptomatically and supportively.
- **Protection of first aiders:**
No action shall be taken involving any personal risk or without suitable training. If it is suspected that gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth to mouth resuscitation.

* **Section 5. Fire-fighting measures**

Extinguishing media

- **Suitable extinguishing agents:**
CO2, sand, extinguishing powder.
- **For safety reasons unsuitable extinguishing agents:**
Water and water with full jet. Water may cause frothing.

Advice for firefighters

- **Protective equipment:**
*Mouth respiratory protective device.
Protective clothing and respiratory protective device.*

* **Section 6. Accidental release measures**

Personal precautions, equipment and emergency procedures

*Wear protective equipment. Keep unprotected persons away.
Recover free product, add limestone, earth, or other suitable absorbents.
Ventilate confined spaces.
Advise authorities if product has entered sewers, waterways or extensive land areas.
Minimize skin contact.*

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• **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Prevent seepage into sewage system, workpits and cellars.

Do not allow product to reach sewage system or any water course.

Do not allow to enter sewers/surface or ground water.

• **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste in accordance with federal state and local regulations.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* **Section 7. Handling and storage**

• **Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Wear personal protective equipment.

Open and handle receptacle with care.

Do not use air pressure to unload containers.

Keep container tightly closed.

Do not breath vapors or spray mist.

• **Information about protection against explosions and fires:**

Product is stable. Bond and ground containers. Although bonded and grounded, static electricity may accumulate. Use only non-sparking tools.

Protect against electrostatic charges.

Keep respiratory protective device available

Advice on general occupational hygiene

Do not eat, drink, or smoke in areas where this product is being handled, stored, or processed.

Workers should wash face and hands before eating, drinking or smoking.

Remove protective clothing and equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

Store in a segregated, approved area in accordance with local regulations.

Store in secured area away from imcompatable materials and food and drink.

Separate from oxidizing materials.

Material must be stored in original containers tightly closed and sealed.

Store containers upright to prevent spillage.

Do not store in unlabeled containers.

* **Section 8. Exposure controls/personal protection**

Additional information about design of technical systems

No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

This product does not contain any relevant quantities of materials with critical values that have to be montored at the workplace.

Additional information:

The lists that were valid during the creation were used as basis.

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Exposure controls

Personal protective equipment (see listings below)

General protection and hygiene

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Store protective clothing separately.

- **Breathing equipment:**

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance and the preparation. Check with glove manufacturer for data regarding chemical resistance.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and therefore has to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

Safety glasses with side shields should be worn. If splashes are likely to occur, wear goggles or a full face mask. Do not wear contact lenses. Eye wash stations and safety showers should be close to workstation.

- **Skin and body protection:**

Wear protective apron and boots.

Note: All pigments, fillers, fibers and extenders in this product are totally encapsulated and do not pose a respirable dust hazard during installation and use of this products.

*** Section 9. Physical and chemical properties**

Information on basic physical and chemical properties

General Information

Appearance

- **Form:** Liquid
- **Color:** White
- **Odor:** Mild ammonia odor.
- **Odor Threshold:** Not Applicable
- **pH-value:** Approximately 8.0- 10.

Change in condition

- **Melting point/Melting Range** Not applicable
- **Boiling point/Boiling Range** Not applicable.
- **Flash point:** Water-based, not applicable. Will not burn until cured.
- **Specific gravity:** .75
- **Auto igniting:** Not applicable
- **Danger of explosion:** Product is not explosive.

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Information on basic physical and chemical properties

Explosion limits

Lower:	Not applicable
Upper:	Not applicable
• Density (lb./gal):	Greater than 8.4
• Evaporation rate:	Not determined
• Partition coefficient (n-octanol/water: gravity):	Not determined
• VOC (EPA Method 24A):	20 gm/liter max.
• Solubility in / Miscibility with Water:	Insoluble but miscible with water.

Other information Weight per gallon: 10-10.9 lbs.

*** Section 10. Stability and reactivity**

Reactivity

Chemical stability

- **Thermal decomposition/conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:**
No dangerous reactions known.
- **Conditions to avoid:**
Heat, open flames, and sparks.
Keep away from direct sunlight.
Do not allow vapor to accumulate in low or confined areas
Do not pressurize, cut, weld, braze, drill, or grind on containers.
Situations conducive to the build up of static electricity.
- **Incompatible materials:**
Acids, alkalis, and oxidizing agents.
- **Hazardous decomposition products:**
CO, H₂S, CO₂ and SOX

*** Section 11. Toxicological information**

Information on toxicological effects

- | | | |
|---|---------|-------------------|
| • ORAL - rat LD50 (mg/kg): | Biocide | 1620 |
| • Dermal - rabbit LD50 (mg/kg): | Biocide | > 2000 |
| • Eye irritation - rabbit: | | No data available |
| • Skin irritation - rabbit (24-hr exposure): | | No data available |

Information on acute toxicity

- **Acute toxicity**
- **Primary irritant effect**
- **on the skin:**
May irritate the eye.
- **on the eye:**
May irritate the eye.
- **Sensitization:**
No sensitizing effects known.

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Additional toxicological information:

Carcinogenic catagories

IARC (International Agency for Reserarch on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

*** Section 12. Ecological information**

Toxicity

- **Aquatic toxicity:**
No further relevent information available.
- **Persistence and degradability:**
No further relevent information available.
- **Bioaccumulative potential:**
No further relevent information available.
- **Mobility in soil:**
No further relevent information available.
- **Additional ecological information:**
- **General notes:**
At present there are no ecotoxicological assessments.

Results of PBT and vPvB assessment

- **PBT:**
Not applicable.
- **vPvB:**
Not applicable.

Other adverse effects

No further relevant informatio available.

*** Section 13. Disposal considerations**

Waste treatment methods

- **Recommendation:**
The generation of waste should be avoided or minimized whenever and wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental and waste disposal legislation and all local, regional, and federal authority requirements. Dispose of surplus and non-recyclable products thru a licensed waste disposal contractor. Waste should not be allowed to enter streams, lakes, sewer systems, or other open waterways. Waste packaging should be recycled. This material and its containers that have not been cleaned or rinsed out may contain product residues or vapors that are highly flammable and may explode. Do not cut, weld, or grind used containers. Do not dispose with household garbage. Any contaminated cleaning materials used with this product must be properly disposed and treated as flammable materials unless they have been thoroughly washed and clean of any product or residue. Do not allow product to reach sewage system.

Uncleaned packagings

- **Recommendation:** *Disposal must be made in compliance with local, state, regional, and federal regulations.*

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*** Section 14. Transportation information**

UN proper shipping name

- **DOT** Coating
- **ADR** Coating
- **IMDG, IATA** Coating

Transport hazard class(es)

- **DOT** *Not classified as a hazardous material under HM-181*
- Canadian TDG:** *Not determined*

*** Section 15. Regulatory Information**

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

• **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

Proposition 65

- **Chemicals known to cause cancer:**

Warning: This product may contain chemical(s) known to the state of California to cause cancer, birth defects, and/or other reproductive harm.

- **Chemicals known to cause reproductive toxicity:**

Warning: This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

(DSL) Canada Domestic Substance List

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

Carcinogenicity categories

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

National regulations:

Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

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*** Section 16. Other information**

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Roofing Products International, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Roofing Products International, Inc. or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

- **Department issuing SDS: Technical Services Department**

- **Creation Date:** 03/28/2003

- **Date of preparation:** 01/05/2016

- **Last revision:** 1/05/2016

- **Reason for revision:** Format Update

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

DOT: US Department of Transportation

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

IMDG: International Maritime Code for Dangerous Goods

Flam. Liq. 0: Flammable liquids, Hazard Category 0

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

End of SDS