

BONDING PRIMER (STEP 3)**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE MANUFACTURER**

- 1.1 Product identifier** ReCoat Revolution Bonding Primer (Step 3)
- Material number:** N/A
- 1.2 Relevant identified uses of the substance or mixture and uses advised against Use:** Resin used in the production of coatings, inks and/or adhesives.
- 1.3 Details of the supplier of the safety data sheet** ReCoat Revolution
44 Soccer Park Road
Fenton MO, 63026
- Telephone: (636) 400-7444
Email: info@recoatrevolution.com
- 1.4 Emergency telephone number** In case of emergency call: (636) 400-7444

SECTION 2: HAZARDS IDENTIFICATION

- 1.5 Classification of the substance or mixture GHS Classification:** Non-hazardous substance according to GHS classification
- 1.6 Label elements GHS-Labeling** Non-hazardous substance according to GHS classification
- 1.7 Other hazards** No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- Type of product:** Mixture.
- 3.2 Mixtures** Acrylic copolymer emulsion.
- Contains no hazardous ingredients according to GHS** The following substances are precautionary mentioned. 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one
Concentration [wt.-%]: < 0.05
- GHS Classification:
- Acute Toxicity: 4
 - Oral: H302
 - Skin Irritation: 2 H315
 - Eye Dam: 1 H318
 - Skin Sensitivity: 1
 - H317 Aquatic Acute: 1
 - H400 Aquatic Chronic: 2 H411

Specific threshold concentration (GHS):

Skin Sensitivity: 1 H317 >= 0.05 %
M-factor (acute aquat. tox.): 1

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- General advice:** Take off all contaminated clothing immediately. For effective first-aid, special training / education is needed.
- If inhaled:** Take the person into the fresh air and keep him warm, let him rest; if there is difficulty in breathing, medical advice is required.
- In case of skin contact:** In case of skin contact wash affected areas thoroughly with soap and plenty of water. Consult a doctor in the event of a skin reaction. Take off contaminated clothing and shoes immediately.
- In case of eye contact:** Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist. Remove contact lenses.
- If swallowed:** Rinse mouth. Do not induce vomiting without medical advice. If symptoms persist, call a physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If victim is conscious: Give small amounts of water to drink.

4.2 Most important symptoms and effects, both acute and delayed Basic first aid, decontamination, symptomatic treatment.
Notes to physician:

4.3 Indication of any immediate medical attention and special treatment needed No information available.
Therapeutic measures:

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special hazards arising from the substance or mixture:** In the event of fire and/or explosion do not breathe fumes. Formation of carbon monoxide, carbon dioxide and other toxic gases in the event of fire or during thermal decomposition. Fire will produce dense black smoke containing hazardous

combustion products (see section 10). In case of fire, may produce hazardous decomposition products such as: Acrylate monomers Aldehydes Organic acids

Advice for fire-fighters:

Use personal protective equipment. Wear an approved positive pressure self-contained breathing apparatus in addition to standard firefighting gear. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

The material will not support combustion unless the water has evaporated.

Immediately evacuate personnel to safe areas. Fight fire in early stages if safe to do so. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Immediately evacuate personnel to safe areas. Keep unauthorized persons away. Use personal protective equipment. Put on protective equipment (see section 8).

6.2 Environment related measures:

Do not allow to escape into waterways, wastewater or soil. If the product contaminates rivers and lakes or drains inform respective authorities. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

6.3 Methods and material for containment and cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Dispose of wastes in an approved waste disposal facility. Do not discharge large quantities of concentrated spills or residues into surface water or sanitary sewer system.

6.4 Reference to other sections:

For personal protection see section 8. For further disposal measures see section 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Smoking, eating and drinking should be prohibited in the application area. Wash skin thoroughly after handling. For personal protection see section 8. Remove contaminated clothing and protective equipment before entering eating areas.

The personal protective measures described in section 8 must be observed.

Keep away from foodstuffs, drinks and tobacco. Wash hands and face before breaks and at the end of work. Keep working clothes separately. Change contaminated or soaked clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Protect against heat and direct sunlight. When not in use, keep containers tightly closed. Keep in properly labelled containers. Use appropriate container to avoid environmental contamination.

Recommended storage temperature: 5 - 40 °C
Further information on storage stability: Protect from frost.

7.3 Specific end use(s)

No information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

- **Appropriate engineering controls** Use a local and/or general ventilation system. Use feasible engineering controls to minimize exposure to compound.
- **Respiratory protection** Respiratory protection required in insufficiently ventilated working areas.
- **Hand protection** Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber: thickness $\geq 0,4\text{mm}$; Break through time: 240 - 480 min
- **Eye protection** Safety glasses with side-shields
- **Skin and body protection** Wear suitable protective clothing.
- **Further protective measures** Wear suitable protective equipment. When using do not eat, drink or smoke. Ensure that eyewash stations and safety

showers are close to the workstation location. Take off contaminated clothing and wash it before reuse. Wash face, hands and any exposed skin thoroughly after handling. Use appropriate disgowning techniques to remove potentially contaminated clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	liquid at 20 °C at 1,013 hPa
Appearance:	Liquid.
Color:	Light cream.
Odor:	Mild.
Odor Threshold:	Not established.
pH:	8.5 - 9.2
Melting point/freezing point:	Not established.
Initial boiling point and boiling range:	100 °C
Flash point:	> 100 °C
Evaporation rate:	Not established.
Flammability:	Not established.
Burning number:	Not established.
Upper/lower flammability or explosive limits:	Not established.
Vapor pressure:	2.3 kPa
Relative vapor density:	1.27
Density:	1.05 g/cm ³ at 20 °C
Miscibility with water:	Miscible.
Water solubility:	Not established.
Surface tension:	Not established.



Partition coefficient (n-octanol/water):	Not established.
Auto-ignition temperature:	Not established.
Ignition temperature:	Not established.
Decomposition temperature:	Not established.
Heat of combustion:	Not established.
Viscosity, dynamic:	100 mPa.s at 20 °C
Viscosity, kinematic:	> 95 cSt at 21 °C > 20.5 cSt at 40 °C
Explosive properties:	Not established.
Dust explosion class:	Not established.
Oxidising properties:	Not established.

9.2 Other information The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	None known.
10.2 Chemical stability	No decomposition if used as directed. Stable under recommended storage conditions. The product is chemically stable.
10.3 Possibility of hazardous reactions	No hazardous reactions when stored and handled correctly.
10.4 Conditions to avoid	Protect from frost.
10.5 Incompatible materials	No data available.
10.6 Hazardous decomposition products	No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity, oral	No data available.
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Acute toxicity, dermal	No data available.
Acute toxicity, inhalation	No data available.
Primary skin irritation	No data available.
Primary mucosae irritation	No data available.
Sensitization	No data available.
Subacute, sub chronic and prolonged toxicity	No data available.
Carcinogenicity	No data available.
Reproductive toxicity/Fertility	No data available.
Reproductive toxicity/Developmental Toxicity/Teratogenicity	No data available.
Genotoxicity in vitro	No data available.
Genotoxicity in vivo	No data available.
STOT evaluation – one-time exposure	No data available.
STOT evaluation – repeated exposure	No data available.
Aspiration toxicity	No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	No data available.
12.2 Persistence and degradability	No data available.
12.3 Bio-accumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT and vPvB assessment	No data available.
12.6 Other adverse effects	No data available.

SECTION 13: DISPOSAL CONSIDERATIONS



The information in this section contains generic advice and guidance. Reference number 2008/98/EC

Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. The classification of the product may meet the criteria for a hazardous waste. Offer surplus and non-recyclable solutions to a licensed disposal company. Do not dispose of waste into sewer.

13.1 Waste treatment methods

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Empty containers retain residue and can be dangerous.

Containers must be recycled in compliance with national legislation and environmental regulations. Dispose of empty containers and wastes safely. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Where possible recycling is preferred to disposal or incineration.

No disposal into waste water.

SECTION 14: TRANSPORT INFORMATION

Land transport

14.1 UN number or ID number	Not dangerous goods.
14.2 UN proper shipping name	Not dangerous goods.
14.3 Transport hazard class(es)	Not dangerous goods.
14.4 Packing group	Not dangerous goods.
14.5 Environmental hazards	Not dangerous goods.

IATA

14.1 UN number or ID number	Not dangerous goods.
14.2 UN proper shipping name	Not dangerous goods.
14.3 Transport hazard class(es)	Not dangerous goods.
14.4 Packing group	Not dangerous goods.
14.5 Environmental hazards	Not dangerous goods.

IMDG

14.1 UN number or ID number	Not dangerous goods.
14.2 UN proper shipping name	Not dangerous goods.
14.3 Transport hazard class(es)	Not dangerous goods.
14.4 Packing group	Not dangerous goods.
14.5 Marine pollutant	Not dangerous goods.



14.6 Special precautions for user	See section 6 - 8.
Additional information	Not dangerous cargo. Keep separated from foodstuffs.
14.7 Maritime transport in bulk according to IMO instruments	Product is not transported in bulk.

SECTION 15: REGULATORY INFORMATION

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

SECTION 16: OTHER INFORMATION

Full text of the hazard statements of the GHS classification referred to under sections 2, 3 and 10.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.