

**DISSOLVING AGENT (STEP 1)****SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Material name</b>	ReCoat Revolution Dissolving Agent (Step 1)
<b>Material number</b>	N/A
<b>Manufacturer or supplier's details</b>	
<b>Company</b>	ReCoat Revolution
<b>Address</b>	44 Soccer Park Road Fenton MO, 63026
<b>Telephone</b>	(636) 400-7444
<b>Email</b>	info@recoatrevolution.com

**Emergency telephone numbers**

<b>For SDS Information</b>	Call (636) 400-7444
<b>For a Medical Emergency</b>	<b>EPA:</b> Call (877) 541-2016 Toll Free – All Calls Recorded.
<b>For a Transportation Emergency</b>	<b>CHEMTREC:</b> Call (800) 424-9300 – All Calls Recorded. In the District of Columbia (202) 483-7616 – All Calls Recorded.

Recommended use of the chemical and restrictions on use:

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

- **Appearance** Liquid
- **Color** Colorless
- **Odor** Solvent-like

**GHS Classification**

- **Skin corrosion** Category 1
- **Serious eye damage** Category 1



GHS label elements

• Hazard pictograms



Corrosion

Signal word

Danger.

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

**Prevention:**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**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 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

**Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture

Hazardous Components

Chemical name	CAS-No.	Concentration [%]
2-butoxyethanol	111-76-2	>= 30 - < 50
2-aminoethanol	141-43-5	>= 10 - < 20

The exact percentages of disclosed substances are withheld as trade secrets.

**SECTION 4. FIRST AID MEASURES**



<b>General advice</b>	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
<b>If inhaled</b>	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
<b>In case of skin contact</b>	Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
<b>In case of eye contact</b>	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
<b>If swallowed</b>	Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
<b>Most important symptoms and effects, both acute and delayed</b>	Effects are immediate and delayed. Symptoms may include blistering, irritation, burns, and pain. Effects are dependent on exposure (dose, concentration, contact time). Causes severe skin burns and eye damage. Review section 2 of SDS to see all potential hazards.
<b>Notes to physician</b>	Treat symptomatically. Symptoms may be delayed.

## SECTION 5. FIREFIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	High volume water jet.
<b>Specific hazards during firefighting</b>	Do not allow run-off from firefighting to enter drains or water courses.
<b>Hazardous combustion products</b>	Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide (CO) Smoke Nitrogen oxides (NO <sub>x</sub> )



<b>Specific extinguishing methods</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Further information</b>	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment.
<b>Environmental precautions</b>	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains, inform respective authorities.
<b>Methods and materials for containment and cleaning up</b>	Neutralize with acid. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

<b>Advice on safe handling</b>	Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
<b>Conditions for safe storage</b>	Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
<b>Materials to avoid</b>	Keep away from oxidizing agents and strongly acid or alkaline materials.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Components with workplace control parameters:

Components	CAS-No.	Value type (Forms/types of exposure)	Control parameters / Permissible concentration	Basis
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 mg/m3	OSHA Z-1
		TWA	25 ppm 120 mg/m3	OSHA P0
		PEL	20 ppm 97 mg/m3	CAL PEL
2-aminoethanol	141-43-5	TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		TWA	3 ppm 8 mg/m3	NIOSH REL
		ST	6 ppm 15 mg/m3	NIOSH REL
		TWA	3 ppm 6 mg/m3	OSHA Z-1
		STEL	6 ppm 15 mg/m3	OSHA P0
		TWA	3 ppm 8 mg/m3	OSHA P0
		PEL	3 ppm 8 mg/m3	CAL PEL
		STEL	6 ppm 15 mg/m3	CAL PEL

Biological occupational exposure limits:

Component	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
2-BUTOXYE THANOL	111-76-2	Butoxy acetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200.mg/g Creatinine	ACGIH BEI

Engineering measures

Effective ventilation in all processing areas



**Personal protective equipment**

<b>Respiratory protection</b>	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
<b>Hand protection</b>	
<b>Material</b>	Protective gloves.
<b>Remarks</b>	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
<b>Eye protection</b>	Access to clean water to rinse eyes must be available, options include eye wash stations or showers, or eye wash bottles with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.
<b>Skin and body protection</b>	Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the workplace.
<b>Hygiene measures</b>	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Liquid.
<b>Color</b>	Colorless.
<b>Odor</b>	Solvent-like.
<b>Odor Threshold</b>	No data available.
<b>pH</b>	12.88
<b>Melting point/freezing point</b>	No data available.
<b>Boiling point</b>	> 93.33 °C
<b>Flash point</b>	> 93.3 °C Method: closed cup
<b>Evaporation rate</b>	No data available.
<b>Upper explosion limit</b>	No data available.



<b>Lower explosion limit</b>	No data available.
<b>Vapor pressure</b>	19.31 hPa
<b>Relative vapor density</b>	No data available.
<b>Density</b>	0.993 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	
• <b>Water solubility</b>	Soluble.
• <b>Solubility in other solvents</b>	Not applicable.
<b>Partition coefficient:</b>	No data available.
• <b>n-octanol/water</b>	
• <b>Auto-ignition temperature</b>	Not determined.
• <b>Thermal decomposition</b>	No data available.
• <b>Viscosity</b>	No data available.
• <b>Viscosity, kinematic</b>	8.4 mm <sup>2</sup> /s (20 °C)

## SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No decomposition if stored and applied as directed.
<b>Conditions to avoid</b>	No data available.
<b>Incompatible materials</b>	Acids Oxidizing agents
<b>Hazardous decomposition products</b>	Carbon oxides

## SECTION 11. TOXICOLOGICAL INFORMATION

### Potential Health Effects

- **Aggravated Medical Condition** None known.
- **Symptoms of Overexposure** Effects are immediate and delayed. Symptoms may include blistering, irritation, burns, and pain. Effects are dependent on exposure (dose, concentration, contact time). Causes severe skin burns and eye damage.



Review section 2 of SDS to see all potential hazards. Treat symptomatically. Symptoms may be delayed.

**Carcinogenicity:**

- **IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **ACGIH** Confirmed animal carcinogen with unknown relevance to humans 2-butoxyethanol (111-76-2).
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Acute toxicity****Product:**

- **Acute oral toxicity** Acute toxicity estimate: 2,197 mg/kg  
Method: Calculation method
- **Acute inhalation toxicity** Acute toxicity estimate: 24.59 mg/l  
Exposure time: 4 h  
Test atmosphere: Vapor  
Method: Calculation method
- **Acute dermal toxicity** Acute toxicity estimate: 2,391 mg/kg  
Method: Calculation method

**Components:**

- **2-butoxyethanol:** LD50 Oral Rat: 880 mg/kg
- **Acute oral toxicity**
- **Acute dermal toxicity** LD50 Dermal Rabbit: 1,060 mg/kg
- **2-aminoethanol:** LD50 Oral Mouse: 700 mg/kg
- **Acute oral toxicity** LD50 Oral Rat: 1,515 mg/kg
- **Acute inhalation toxicity** LC50 Mouse: > 1.21 mg/l

- **Skin corrosion/irritation**

Product:

**Remarks: Extremely corrosive and destructive to tissue.**

- **Serious eye damage/eye irritation**

Product:

**Remarks: May cause irreversible eye damage.**





<b>Respiratory or skin sensitization</b>	No data available.
<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	No data available.
<b>Reproductive toxicity</b>	No data available.
<b>STOT - single exposure</b>	No data available.
<b>STOT - repeated exposure</b>	No data available.
<b>Aspiration toxicity</b>	No data available.

**Further information**

**Product:** Remarks: No data available.

**SECTION 12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	No data available.
<b>Persistence and degradability</b>	No data available.

**Bio-accumulative potential****Product:**

**Partition coefficient:** Remarks: No data available.  
• n-octanol/water

**Components:**

2-aminoethanol:  
Partition coefficient: log Pow: -1.31  
n-octanol/water

- **Mobility in soil** No data available.
- **Other adverse effects** No data available.

**Product:**

- **Regulation** 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances



**Remarks** This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

**Additional ecological information** No data available.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- **Waste from residues** Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.
- **Contaminated packaging** Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

### SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA):  
UN3267, Corrosive liquid, basic, organic, n.o.s., (MONOETHANOLAMINE), 8, III

Transportation Regulation: IMDG (Vessel):  
UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (MONOETHANOLAMINE), 8, III

Transportation Regulation: IATA (Cargo Air):  
UN3267, Corrosive liquid, basic, organic, n.o.s., (MONOETHANOLAMINE), 8, III

Transportation Regulation: IATA (Passenger Air):  
UN3267, Corrosive liquid, basic, organic, n.o.s., (MONOETHANOLAMINE), 8, III

Transportation Regulation: TDG (Canada):  
UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (MONOETHANOLAMINE), 8, III

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

### SECTION 15. REGULATORY INFORMATION

**TSCA list** No substances are subject to a Significant New Use Rule.  
No substances are subject to TSCA 12(b) export notification requirements.



**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2,2'-iminodiethanol	111-42-2	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
methyloxirane	75-56-9	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards**

**Skin corrosion or irritation**  
**Serious eye damage or eye irritation.**

**SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313:

2-butoxyethanol                      111-76-2                      33.5782 %

**California Prop. 65**



**WARNING:** This product can expose you to chemicals including 2,2'-iminodiethanol, 1,4-dioxane, methyl oxirane, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**The components of this product are reported in the following inventories:**

**DSL**                      All components of this product are on the Canadian DSL.

**TSCA**                      On TSCA Inventory.

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

**Inventory Acronym and Validity Area Legend:**                      TSCA (USA), DSL (Canada), NDSL (Canada)

**SECTION 16. OTHER INFORMATION****Further information****NFPA:**

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>INSTABILITY</b>	<b>0</b>
<b>SPECIAL HAZARD.</b>	

0 = not significant

1 = Slight

2 = Moderate

3 = High

4 = Extreme

**HMIS III:**

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant

1 = Slight

2 = Moderate

3 = High

4 = Extreme

\* = Chronic

**OSHA - GHS Label Information:**

**Hazard pictograms**



Corrosion

**Signal word**

Danger.

**Hazard statements**

Causes severe skin burns and eye damage.

**Precautionary statements**

**Prevention:** Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse.

**Disposal:** Dispose of contents/container in accordance with local regulation.

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