

## Revive

### SECTION 1. IDENTIFICATION

**Product Identifier** Revive  
**Product Family** Tile and Grout Restorer  
**Manufacturer / Supplier** Easy Way, 10 Housers Lane, Woodstock, Ontario, N4S 7W8, 1-800-265-9205, www.easyway.ca  
**Emergency Phone No.** CANUTEC , 613-996-6666, 24 Hours  
**SDS No.** 0138

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Skin corrosion/irritation - Category 2; Serious eye damage/eye irritation - Category 1



### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Phosphoric acid	7664-38-2	10-15	
Citric acid	77-92-9	3-7	
Malic Acid	6915-15-7	1-5	
2-Butoxyethanol	111-76-2	1-5	

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Move to fresh air. Get medical advice/attention if you feel unwell or are concerned.

##### Skin Contact

Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation occurs get medical advice/attention.

##### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay flushing or attempt to remove the lens. If eye irritation persists, get medical advice/attention.

##### Ingestion

Rinse mouth with water. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Get medical advice/attention if you feel unwell or are concerned.

## Most Important Symptoms and Effects, Acute and Delayed

Symptoms may develop hours after exposure.

## Immediate Medical Attention and Special Treatment

### Target Organs

Skin, respiratory system.

### Medical Conditions Aggravated by Exposure

Dermatitis, respiratory conditions.

## SECTION 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Not combustible. Use extinguishing agents compatible with product and suitable for surrounding fire.

### Specific Hazards Arising from the Chemical

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; corrosive phosphorous oxides.

### Special Protective Equipment and Precautions for Fire-fighters

Firefighters should wear self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

Large spills or leaks: dike spilled product to prevent runoff.

Contact emergency services and manufacturer/supplier for advice.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Avoid generating vapours or mists.

### Conditions for Safe Storage

Separate from incompatible materials (see Section 10: Stability and Reactivity).

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL [C]	TWA	Ceiling
Phosphoric acid	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	
2-Butoxyethanol	20 ppm A3		25 ppm Skin	

### Appropriate Engineering Controls

General ventilation is usually adequate. Provide eyewash in work area, if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Product Identifier: Revive

SDS No.: 0138

Date of Preparation: February 16, 2016

### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.  
Suitable materials are: nitrile rubber, butyl rubber.

### Respiratory Protection

Not normally required if product is used as directed. Or, wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Clear liquid.
Odour	Acidic
pH	0.6 - 1.6 (100% solution)
Relative Density (water = 1)	1.3
Solubility	Dispersible in water

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Heat. Contamination.

### Incompatible Materials

Oxidizing agents (e.g. peroxides), strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide), metals (e.g. aluminum), ammonia, amines (e.g. triethylamine).  
Aluminum alloys, copper, iron, lead, zinc.

### Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; corrosive phosphorous oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Phosphoric acid	> 213 mg/m <sup>3</sup> (rat) (4-hour exposure)	1530 mg/kg (rat)	2740 mg/kg (rabbit)
Malic Acid		1600-3200 mg/kg (rat)	
Citric acid		3000 mg/kg (rat)	
2-Butoxyethanol	700 ppm (mouse)	450-3000 mg/kg (rat)	400-510 mg/kg (rabbit)

LC50: No information was located.

### Skin Corrosion/Irritation

Animal tests show moderate or severe irritation.

### Serious Eye Damage/Irritation

Animal tests show serious eye damage.

## STOT (Specific Target Organ Toxicity) - Single Exposure

### Inhalation

May cause respiratory tract irritation.

### Skin Absorption

May be harmful.

### Ingestion

Irritation of the mouth, throat and stomach. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

## Aspiration Hazard

Not known to be an aspiration hazard.

## STOT (Specific Target Organ Toxicity) - Repeated Exposure

Symptoms may include dry, red, cracked skin (dermatitis).

## Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer.

Not known to be a skin sensitizer.

## Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Phosphoric acid	Group 1	Not designated	Not Listed	Not Listed
Malic Acid	Not Listed	Not designated	Not Listed	Not Listed
Citric acid	Not Listed	Not designated	Not Listed	Not Listed
2-Butoxyethanol	Group 3	A3	Not Listed	Not Listed

Group 1 – Carcinogenic to humans.

Group 3 – Not classifiable as to its carcinogenicity to humans.

A3 – Confirmed animal carcinogen.

## Reproductive Toxicity

### Development of Offspring

May cause adverse reproductive effects based on animal test data.

## Germ Cell Mutagenicity

May be mutagenic based on limited evidence. (2-Butoxyethanol)

## SECTION 12. ECOLOGICAL INFORMATION

### Toxicity

#### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea
Phosphoric acid	3-3.5 mg/L (Gambusia (Mosquitofish); 96-hour)	
Citric acid		160 mg/L (Carcinus maenas (European shore crab); 48-hour)
2-Butoxyethanol	1000 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; static)	210 mg/L (Daphnia magna (water flea); fresh water; static)

## Persistence and Degradability

Does not degrade rapidly based on quantitative tests. (Phosphoric acid)

## Bioaccumulative Potential

This product or its degradation products are expected to bioaccumulate. (Phosphoric acid)

## Mobility in Soil

Product Identifier: Revive  
SDS No.: 0138  
Date of Preparation: February 16, 2016

If released into the environment, this product can move rapidly through the soil.  
No information was located.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of in accordance with federal, state/provincial and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state/provincial and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1805	Phosphoric Acid (Phosphoric acid)	8	III
US DOT	1805	Phosphoric Acid (Phosphoric acid)	8	III

**Special Precautions for User** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

##### WHMIS Classification



Class D2A



Class E

D2A - Very Toxic; E - Corrosive

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

##### CEPA - National Pollutant Release Inventory (NPRI)

Part 1A, Part 5. (2-Butoxyethanol)

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

<b>NFPA Rating</b>	<b>Health - 2</b>	<b>Flammability - 0</b>	<b>Instability - 0</b>
<b>SDS Prepared By</b>	Easy Way		
<b>Phone No.</b>	1-800-265-9205		
<b>Date of Preparation</b>	February 16, 2016		
<b>Disclaimer</b>	Information for this material safety data sheet was obtained from sources considered		

Product Identifier: Revive  
SDS No.: 0138  
Date of Preparation: February 16, 2016

technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8466) or CSST in Montreal, Quebec (514-873-3990).

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Product Identifier: Revive  
SDS No.: 0138  
Date of Preparation: February 16, 2016

Page 06 of 06