

## Hazardous Chemical, Dangerous Goods

## **1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION**

Product name:	Revive
Recommended Use:	Foaming Acidic Cleaner
Supplier: Street Address:	Hygiene Technologies Ltd 28 Rangitane Rd Whakatu, Hastings 4102 New Zealand
Telephone:	+ 64 6 876 4111 or 0800 732 525
Facsimile:	+ 64 6 878 3802
Emergency	New Zealand Poisons Centre
Telephone number:	0800 POISON (0800 764 766)

### 2. HAZARDS IDENTIFICATION

#### **Hazardous Substances**

This product is classified as hazardous according to the HSNO Act 1996



Signal Word Danger

#### **Hazard Classifications**

Corrosive to Metals – Category 1 Skin Corrosion – Category 1B Serious Eye Damage – Category 1

#### **Hazard Statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

#### **Prevention Statements:**

- P102 Keep out of reach of children.
- P103 Read label before use.
- P234 Keep only in original container.
- **P260** Do not breathe mist, vapours, or spray.
- P264 Wash hands, face and all exposed skin thoroughly after handling.
- P280 Wear protective clothing, gloves, eye or face protection and suitable respirator.



#### **Response Statements:**

P101	If medical advice is needed, have product container or label at hand.
P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 +P312	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Call a POISON CENTER or physician if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P390	Absorb spillage to prevent material damage.

#### **Storage Statements**

P405 Store locked up.P406 Store in corrosive resistant container with a resistant liner

#### **Disposal Statement**

**P501** Dispose of product and packaging according to local by-laws.

### **3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS No.	PROPORTION
Phosphoric Acid	7664-38-2	30 - 60%
2-Butoxyethanol	111-76-2	< 10%
Non Hazardous Ingredients	N/A	Balance

## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone New Zealand 0800 764 766).

Inhalation:	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

- **Skin Contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water).
- **Eye Contact:** Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.



- Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Immediately call Poisons Centre or Doctor.
- **PPE for First Aiders:** Wear rubber boots, overalls, gloves, apron, chemical goggles, air mask. Use with adequate ventilation. If inhalation risk exists, wear air-supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Wash contaminated clothing and other protective equipment before storing or re-using.
- **Special Treatment:** Treat symptomatically. Can cause skin and corneal burns.

### **5. FIRE FIGHTING MEASURES**

Specific Hazard	Non-combustible material. Corrosive chemical. Wear protective gloves, protective clothing and eye protection.
Suitable Extinguishing Media:	Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).
Fire fighting further advice:	Not combustible, however following evaporation of aqueous component residual material can decompose if involved in a fire, emitting toxic fumes. Contact with metals may liberate hydrogen gas which is extremely flammable. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

HAZCHEM

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### 6. ACCIDENTAL RELEASE MEASURES

#### **SMALL SPILLS**

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours, mist or spray. Wipe up with non-combustible absorbent. Collect and seal in properly labelled containers or drums for disposal.

#### LARGE SPILLS

If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: 37



### 7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or		
aerosols. Do not eat, drink or smoke when using this product. Ensure		
adequate ventilation. Wash thoroughly after handling. Use personal		
protection equipment. Keep out of reach of children.		

**Conditions for Safe Storage:** Store in a cool, dry, well ventilated place. Store away from incompatible materials described in Section 10. Store away from foodstuffs. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Class 8 Dangerous Goods as per the criteria of the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### National occupational exposure limits:

As published by WorkSafe New Zealand.

	TWA		STEL		NOTICES
	ppm	mg/m³	ppm	mg/m³	
Phosphoric Acid	1	-	-	-	
2-Butoxyethanol	121	-	-	-	

WES-TWA (Workplace Exposure Standard - Time-weighted average). The average airborne concentration of a substance calculated over an eight-hour working day.

WES-Ceiling (Workplace Exposure Standard - Ceiling). A concentration that should not be exceeded at any time during any part of the working day.

WES-STEL (Workplace Exposure Standard - Short-term exposure limit). The 15-minute time weighted average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time- weighted average exposures apply. Exposures at concentrations between the WES-TWA and the WES-STEL should be less than 15 minutes, should occur no more than four times per day, and there should be at least 60 minutes between successive exposures in this range.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.



Biological Limit Values:	As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.
Engineering Measure:	Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.
Personal Protective Equipment:	RUBBER BOOTS, OVERALLS, GLOVES, APRON, CHEMICAL GOGGLES/FACE SHIELD.
	Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.
	When handling individual retail packs no personal protection equipment is required.
	Wear safety shoes, overalls, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
Hygiene measures:	Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:
Colour:
Odor:
Solubility:
Specific Gravity (20°C):
Vapour Density (air=1):
Vapour Pressure (20°C):
Flash Point (°C):
Flammability:
Auto-ignition Temperature (°C):

Liquid Clear Red Nil Complete 1.28 (approx) Unknown Unknown Does not Flash Not available Not available

location.

Explosive Limits: Freezing Point/Range (°C): Boiling Point/Range (°C): pH: Decomposition Temp: Partition Coefficient Viscosity: SADT Not available Not available Not available < 1 (undiluted) Not available Not available Not available Not available

## **10. STABILITY AND REACTIVITY**

Chemical Stability:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid:	Avoid contact with food stuffs.
Incompatible Materials:	Alkalis. Organic material. Metals.
Hazardous Decomposition Products:	None known.
Hazardous Reactions	Contact with metals may evolve flammable hydrogen gas. Contact with water generates heat.

## **11. TOXICOLOGICAL INFORMATION**

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

No data available on final product. Information based on ingredients.

Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE EFFECTS	
Ingestion	Material may be an irritant to mucous membranes and respiratory tract.
Inhalation	Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.
Skin Contact	Harmful if swallowed. Swallowing can result in nausea, vomiting, diarrhea, abdominal pain and chemical burns to the gastrointestinal tract
Eye Contact	A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.





### ACUTE TOXICITY

Inhalation	Toxicity
Skin Contact	This material has not been classified as having Acute Dermal Toxicity.
Ingestion	This material has not been classified as having Acute Oral Toxicity.
Corrosion / Irritancy	Eye: this material has been classified as Serious Eye Damage - Category 1 Skin: this material has been classified as Skin Corrosion - Category 1B.
Sensitisation	Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.
Aspiration Hazard	This material has been classified as non-hazardous.
Specific Target Organ Toxicity (Single Exposure)	This material has been classified as non-hazardous.
CHRONIC TOXICITY	
Mutagenicity	This material has been classified as non-hazardous.
Carcinogenicity	This material has been classified as non-hazardous.
Reproductive Toxicity (including via Lactation)	This material has been classified as non-hazardous.

## **12. ECOLOGICAL INFORMATION**

Avoid contaminating waterways.

Acute aquatic hazard	Expected to be harmful to aquatic species due to low pH.
Long-Term Aquatic Hazard	This material has been classified as non-hazardous.
Ecotoxicity in the Soil Environment	This material has been classified as non-hazardous.
Ecotoxicity to terrestrial vertebrates	This material has been classified as non-hazardous.
Ecotoxicity to terrestrial invertebrates	This material has been classified as non-hazardous.



Ecotoxicity	No information available.
Persistence and Degradability	No information available.
Bioaccumulative Potential	Not expected to bioaccumulate.
Mobility	No information available.

### **13. DISPOSAL CONSIDERATIONS**

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

### 14. TRANSPORT INFORMATION

Classified as Dangerous Goods by the criteria of the "New Zealand NZS5433: Transport of Dangerous Goods on Land", International Maritime Dangerous Goods Code (IMDG Code) for transport by sea, and the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

#### **ROAD AND RAIL TRANSPORT**



UN Number:	3264
Proper Shipping Name:	Corrosive Liquid, ACIDIC, INORGANIC, N.O.S (CONTAINS PHOSPHORIC ACID)
Emergency Response Guide No.:	37
Class:	8
Packing Group:	II
HAZCHEM	2X

**Segregation Dangerous Goods**: Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:

Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity. Not to be loaded on the same vehicle with strong alkalis.





### **MARINE TRANSPORT**



UN Number: Proper Shipping Name: 3264 Corrosive Liquid, ACIDIC, INORGANIC, N.O.S (CONTAINS PHOSPHORIC ACID) 8 II

Packing Group:





Class:

UN Number:	3264
Proper Shipping Name:	Corrosive Liquid, ACIDIC, INORGANIC, N.O.S (CONTAINS PHOSPHORIC ACID)
Class:	8
Packing Group:	II

## **15. REGULATORY INFORMATION**

**EPA Group Standard: HSR002526** Cleaning Products (Corrosive) Group Standard 2020

All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).



## **16. OTHER INFORMATION**

Date Issued:	March 16, 2023
Version:	2.0
Replaces:	April 20, 2022 (New Formula)
Date of Next Review:	March 16, 2028

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd on behalf of its client. Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

End of Safety Data Sheet