Safety Data Sheet



#### Redex

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND SUPPLIER		
Product Name Recommended Uses Supplier Street address Telephone Number	Redex Acidic cleaner Hygiene Technologies Ltd 28 Rangitane Road Hastings (06) 876 4111	
Emergency Telephone	NZ Fire Service - 111 National Poisons Centre – 0800 764 766 (0800 POISON)	
	2. HAZARDS IDENTIFICATION	
Dangerous Goods	This product is classified as a Dangerous Good according to NZS 5433:2020 Transport of Dangerous Goods on Land	
Hazardous Substances	Classified as hazardous according to criteria in GHS 7	
GHS	Corrosive to Metals – Category 1 Skin Corrosion – Category 1C Serious Eye Damage – Category 1	
SIGNAL WORD	DANGER	
Pictograms	Corrosion	
Group Standard 2020	HSR002526	
Hazard Statements	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.	
Precautionary Statements Prevention	<ul> <li>P102 Keep out of reach of children.</li> <li>P103 Read carefully and follow all instructions.</li> <li>P234 Keep only in original packaging.</li> <li>P260 Do not breathe fumes, mist, vapours or spray.</li> <li>P264 Wash hands, face and all exposed skin thoroughly after handling.</li> <li>P280 Wear protective gloves and protective clothing including eye and face protection.</li> </ul>	
Response	<ul> <li>P101 If medical advice is needed, have product container or label at hand.</li> <li>P390 Absorb spillage to prevent material damage.</li> <li>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</li> <li>P363 Wash contaminated clothing before reuse.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P310 Immediately call a POISON CENTRE or doctor.</li> <li>P321 Specific treatment (see Section 4 of this SDS).</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>	
Storage	P405 Store locked up. P406 Store in corrosive resistant container with a resistant inner liner.	
Disposal	P501 Dispose of contents and container in accordance with local, regional, national and international regulations.	

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion % (w/w)
Phosphoric acid	7664-38-2	30 – 60
Ingredients classified as non-hazardous at the concentrations used.		Balance

4. FIRST AID MEASURES

For advice, contact National Poisons Information Centre (Phone 0800 764 766) or a doctor If medical advice is needed, have product container or label at hand.

Swallowed Eye Contact	Rinse mouth and then drink a glass of water. Do <u>NOT</u> induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, give further water. Immediately call a POISON CENTRE or doctor for advice. Immediately rinse cautiously with copious volumes of water for 15 minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do. Continue rinsing. Urgently transport
Skin Contact	to hospital or medical centre without delay. If skin or hair irritation occurs, remove all contaminated clothing and flush skin and hair with running water for at least 15 minutes. For minor skin contact, avoid spreading material on to unaffected skin. If swelling, redness, blistering or irritation occurs seek medical attention. For gross contamination, immediately drench contaminated skin and clothing with plenty of water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is soluble). For skin burns, cover with a clean, dry dressing until medical help is available. Immediately call a POISON CENTRE or doctor for advice. Wash contaminated clothing before
Inhaled	reuse. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Centre or doctor for advice. Allow person to assume most comfortable position and keep at rest until fully recovered. Seek medical assistance if effects persist.

Refer to National Poisons and Hazardous Chemicals Information Centre 0800 764 766.

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

Specific Hazard Suitable Extinguishing Media	Corrosive liquid. Non-combustible material. May be corrosive to metals. If material is involved in a fire, use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).
Fire/Explosion Hazards	Non-combustible, however following evaporation of aqueous component, residual material can burn if ignited. If safe to do so, remove containers from path of fire. Fire fighters to wear self-contained breathing apparatus (SCBA) and suitable protective clothing if risk of exposure to products of decomposition.
Hazchem Code	2R

#### 6. ACCIDENTAL RELEASE MEASURES

Contain minor spills from local drainage with any suitable bund or barrier. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of dusts, mists or sprays. Soak up spilled product using absorbent, non-combustible material such as earth or sand. Avoid using sawdust or cellulose. When saturated, collect material into suitable, clearly labeled, dry, sealable containers and hold for safe disposal. Once clean up is complete, flush spill site with plenty of water to eliminate any residue.

For large spills from drums and IBCs, alert the local Fire Brigade. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Ensure adequate ventilation. Work up wind or increase ventilation. Do not touch or walk through spilled material. Avoid contact with skin and eyes. Stop leak if safe to do so. Prevent entry into waterways, drains or confined areas. Use absorbent (earth, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If material contaminates crops, sewers or waterways, alert local emergency services.

7. HANDLING AND STORAGE		
Handling advice	Before use, carefully read the product label. Avoid contact with eyes and skin. Do not breathe fumes, mist, vapours, spray or dusts (from dried product). Wear protective gloves, protective clothing and eye and face protection (see Section 8). Contaminated work clothing should not be allowed out of the workplace.	
Storage advice	Store in a cool, dry and well-ventilated area away from direct sunlight, heat sources, incompatible materials (described in Section 10) and food stuffs. Ensure containers are correctly labelled, protected from physical damage, sealed when not in use and stored upright. Check containers regularly for leaks and spills. Keep out of reach of children. Store in original packaging as approved by manufacturer. Do not use empty containers for the storge of foodstuffs.	

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Workplace Exposure Guidelines

National occupational exposure limits:

National occupational exposure limits:		TWA	STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Phosphoric acid		1 mg/m <sup>3</sup>			
As published by WorkSafe New Zealand.					
WES-TWA	(Workplace Exposure St airborne concentration o working day.				
WES-Ceiling	(Workplace Exposure Silber exceeded at any time				hould not
WES-STEL	(Workplace Exposure St minute time weighted av minute period in the wor against adverse effects or narcosis that may incl is not an alternative to th weighted average expose the WES-TWA and the V occur no more than four minutes between succes	erage exposur- king day and is of irritation, chr- rease the likelih he WES-TWA; l sures apply. Ex WES-STEL sho times per day,	e standard. designed to onic or irrev nood of accie both the sho posures at c ould be less and there s	Applies to any p protect the v ersible tissue dents. The WI prt-term and the concentrations than 15 minut hould be at le	/ 15- vorker change, ES-STEL me- s between tes, should
	These Exposure Standa occupational health haza too as low a level as is v used as fine dividing line chemicals. They are not	ards. All atmos vorkable. These es between safe	pheric conta e exposure s e and dange	mination shou standards sho erous concent	uld be kept ould not be
	If the directions for use of individuals using the pro standard was created fo during product manufact	duct should no	t exceed the	above stand	ard. The
Biological Limit Values	As per the WorkSafe Ne have a biological limit all		ingredients	in this materia	al do not
Engineering Controls	Ensure ventilation is ade Exposure Standards. Us exhaust ventilation or wh	e only in well-v	entilated are	eas. Use with	

**Personal Protective Equipment** 

# OVERALLS, CHEMICAL GOGGLES, GLOVES, RUBBER BOOTS, FACE SHIELD, APRON

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by a risk assessment. Wear overalls, chemical goggles, gloves, rubber boots, a face shield and an apron. A face shield can be used for supplementary protection of the face, however never for primary protection of the eyes. If risk of inhalation exists, wear an appropriate respirator meeting the requirements of AS/NZS 1715 and AS-NZS 1716. Available information suggests that gloves made from butyl rubber and PVC 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. When handling do not eat, drink or smoke. Wash contaminated clothing and other protective equipment before storage or reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Odour	Characteristic
Colour	Clear, red
Solubility	Miscible in water
Relative Vapour Density	<1
Specific Gravity	1.32
Flash Point ( <sup>0</sup> C)	N App
рН	2 (1% aqueous solution)
Freezing Point	N Av
Boiling Point	N Av
Vapour Pressure	2.3 kPa (water)
Viscosity	N Av

#### **10. STABILITY AND REACTIVITY**

Stability	This material is thermally stable when stored and used as directed.
Conditions to avoid	Elevated temperatures and sources of ignition
Incompatible materials	Strong bases, oxidising agents, metals
Reactivity	Attacks metals in the presence of moisture.
Hazardous Decomposition Products	Oxides of carbon and phosphorus
	11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Inhaled	Material may be corrosive to mucous membranes and respiratory tract.
Skin Contact	Corrosive to skin. Contact with skin will result in severe burns.
Swallowed	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.
Eye Contact	Corrosive to eyes. Contact with eyes will result in serious eye damage including redness, pain, blurred vision and severe corneal burns. Contamination of eyes can result in permanent injury.
Long Term Effects	No information available for the product.

Acute Toxicity Chronic Toxicity	<ul> <li>Inhalation: This material has been classified as non-hazardous.</li> <li>Skin contact: This material has been classified as non-hazardous.</li> <li>Ingestion: This material has been classified as non-hazardous.</li> <li>Corrosion/Irritancy: Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Causes serious eye damage. Skin: this material has been classified as a Category 1C Hazard (irreversible effects to skin). Causes serie skin burns.</li> <li>Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as non-hazardous.</li> <li>Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.</li> <li>Mutagenicity: This material has been classified as non-hazardous.</li> <li>Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.</li> <li>Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.</li> <li>Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.</li> <li>Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.</li> <li>Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.</li> <li>Specific target organ toxicity (repeat exposure): This material has been classified as a Category 2 Hazard. May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Aquatic toxicity	May be harmful to aquatic life due to low pH.
Ecotoxicity	No information available
Persistence/Degradability	No information available
Bioaccumulation Potential	No information available
Mobility	No information available

#### 13. DISPOSAL

Recycle wherever possible. Whatever cannot be saved for recovery or recycling should be sent to an approved waste disposal contractor for disposal in an approved waste facility. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents using an approved waste disposal contractor. Care should be taken to ensure compliance with national and local regulations. This product is NOT for unauthorised disposal by either landfill or via municipal sewers. Not to be discharged to drains, natural streams or rivers.

**Special Precautions:** Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Observe all safeguards on label and in this SDS until container is cleaned, reconditioned or destroyed. Decontaminate empty containers with water. Dispose of container and unused contents in accordance with local authority requirements.

### **14. TRANSPORT INFORMATION**

### Transport of Dangerous Goods Pictograms:

Classified as a Dangerous Good according to NZS 5433:2020 Transport of Dangerous Goods on Land.

#### Road and Rail Transport

UN No:	1805
Dangerous Goods Class:	8
Packing Group:	Ш
Hazchem Code:	2R
Emergency Response Guide No	154

Proper Shipping Name:

PHOPHORIC ACID, SOLUTION



**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2), radioactive substances (Class 7) or food and food packaging in any quantity. Note 1: Concentrated strong alkalis are incompatible with concentrated strong acids are incompatible with concentrated strong alkalis. Note 3: Acids are incompatible with Dangerous Goods of Class 6 which are cyanides. Exemptions may apply.

Marine Transport	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.	
UN No: Dangerous Goods Class: Packing Group:	1805 8 III CORROSIVE	
Proper Shipping Name:	PHOPHORIC ACID, SOLUTION	
<u>Air Transport</u>	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.	
UN No: Dangerous Goods Class: Packing Group:	1805 8 III CORROSIVE	
Proper Shipping Name:	PHOPHORIC ACID, SOLUTION	
	15. REGULATORY INFORMATION	
ERMA (NZ) Approval Code	N/A	
Group Standard 2020	HSR002526 – Cleaning Products (Corrosive) Group Standard 2020	
For more information refer to the E	RMA website: <u>www.epa.govt.nz</u>	
	16. OTHER INFORMATION	
Revision 3		

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