

# SAFETY DATA SHEET



## GROUT RESTORE 20

APPLIED PRODUCTS AUSTRALIA PTY LTD

Catalogue number: AP161

Version No: 3.1

Issue date: 05/11/2020

Safety Data Sheet according to WHS and ADG requirements

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### Product Identifier

Product name	GROUT RESTORE 20
Product code	AP161
Pack sizes	5L & 15L

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Phosphoric Acid based detergent and cleaner
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#### Details of the manufacturer/importer

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD
Address	11 Gamma Close, Beresfield 2322 NSW Australia
Telephone	(02) 4966 5516
Website	www.actichem.com.au
Email	info@actichem.com.au

#### Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 1126
Other emergency telephone numbers	Not Available

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Poisons Schedule	5
GHS Classification	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A. <i>Classification drawn from HCIS and ECHA C&amp;L Inventory.</i>

#### Label elements

Hazard pictograms	
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SIGNAL WORD	<b>DANGER</b>
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#### Hazard statement(s)

H315	Causes skin irritation
H319	Causes serious eye irritation

#### Precautionary statement(s) Prevention

P264	Wash contaminated skin thoroughly after handling.
P280	Wear protective gloves and eye protection.

#### Precautionary statement(s) Response

P302+P352+P362+P332+P312	IF ON SKIN: Wash with plenty of water and soap. Take off contaminated clothing. Call a POISON CENTRE or doctor if you feel unwell.
P305+P351+P338+P337+P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice / attention.
P363	Wash contaminated clothing before reuse

#### Precautionary statement(s) Storage

P405	Store locked up
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#### Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.
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### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
7664-38-2	20	phosphoric acid
Trade secret	<10	proprietary 1
Trade secret	<10	proprietary 2

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

### SECTION 4 FIRST AID MEASURES

#### Description of first aid measures

Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Continue rinsing for 20 minutes or until told to stop by a POISON CENTRE or doctor. Seek medical attention in event of irritation.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5 FIREFIGHTING MEASURES

#### Extinguishing media

Extinguishing media	Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide. Water spray or fog
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#### Special hazards arising from the substrate or mixture

Fire incompatibility	None known
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#### Advice for firefighters

Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area. <b>DO NOT</b> approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	Non-combustible. Not considered to be a significant fire risk. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Heating may cause expansion or decomposition leading to violent rupture of containers. May emit corrosive, poisonous fumes. May emit acrid smoke. Decomposition may produce toxic fumes of phosphorus oxides (POx).
HAZCHEM	Not applicable

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Minor Spills	Clean up all spills immediately. Avoid contact with skin and eyes. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	Wear protective clothing, gloves and eye protection Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.
	Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

Safe handling	<b>DO NOT</b> allow clothing wet with material to stay in contact with skin. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. <b>When handling, DO NOT eat, drink or smoke.</b> Keep containers securely sealed when not in use. Avoid physical damage to containers. <b>WARNING:</b> To avoid violent reaction, ALWAYS add material to water and NEVER water to material.
Other information	

### Conditions for safe storage, including any incompatibilities

Suitable container	<b>DO NOT</b> use aluminium or galvanised containers Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known

### PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA


Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	phosphoric acid	phosphoric acid	1 mg/m3	3 mg/m3	Not Available	Not Available

#### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
phosphoric acid	phosphoric acid	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
phosphoric acid	10,000 mg/m3	1,000 mg/m3

### Exposure controls

Appropriate engineering controls	Maintain adequate ventilation at all times. If ventilation is poor the use of a local exhaust ventilation system is recommended.
Personal protection	
Eye and face protection	Safety glasses with side shields. OR Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation. Lens should be removed in a clean environment only after workers have washed hands thoroughly
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, Neoprene or butyl are recommended for this application
Body protection	See Other protection below
Other protection	Barrier cream. Skin cleansing cream. Eye wash unit.
Thermal hazards	Not Available

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Light green liquid		
<b>Physical state</b>	Liquid	<b>Relative density (Water = 1)</b>	1.1
<b>Odour</b>	Mild acidic	<b>Viscosity (cSt)</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature (°C)</b>	Not Available
<b>pH (as supplied)</b>	<1.0	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (°C)</b>	Not Available	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	Not Available	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Available
<b>Flash point (°C)</b>	Not Applicable	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Available	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Non flammable	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Applicable	<b>Molecular weight (g/mol)</b>	Not Available
<b>Lower Explosive Limit (%)</b>	Not Applicable	<b>Volatile Component (%vol)</b>	Not Available
<b>Vapour pressure (kPa)</b>	Not Available	<b>Gas group</b>	Not Available
<b>Solubility in water (g/L)</b>	Miscible	<b>pH as a solution (1%)</b>	Not Available
<b>Vapour density (Air = 1)</b>	Not Available	<b>VOC g/L</b>	Not Available

## SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	See section 7
<b>Chemical stability</b>	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
<b>Possibility of hazardous reactions</b>	See section 7
<b>Conditions to avoid</b>	See section 7
<b>Incompatible materials</b>	See section 7
<b>Hazardous decomposition products</b>	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

<b>Inhaled</b>	Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. There may be dizziness, headache, nausea and weakness.
<b>Ingestion</b>	Ingestion of acidic corrosives may produce burns around and in the mouth, the throat and oesophagus. Immediate pain and difficulties in swallowing and speaking may also be evident. Ingestion of large quantity of phosphoric acid may cause severe abdominal pains, thirst, academia, difficult breathing, convulsions, collapse, shock and death. Although less hazardous than nitric and sulfuric acid, phosphoric acid has equal corrosive action upon ingestion.
<b>Skin Contact</b>	Skin contact with the material may be harmful; systemic effects may result following absorption The material may cause irritation to the skin. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
<b>Eye</b>	Vapours from the product may produce transient discomfort to the eye characterised by tearing or conjunctival redness (as with windburn). Splashes may cause severe eye irritation, possible corneal burns and eye damage. Eye contact may cause tearing or blurring of vision.
<b>Chronic</b>	Repeated exposure or prolonged contact may produce dermatitis, and conjunctivitis.

### Toxicological effects of ingredients

<b>Acute toxicity</b>	Phosphoric acid	<b>Oral LD50 (rat)</b> 1250 mg/kg <b>Dermal LD50 (rabbit)</b> 2740 mg/kg
	Proprietary ingredient 1	<b>Oral LD50 (rat)</b> 1440–3550 mg/kg (mice) 1100 mg/kg
	Proprietary ingredient 2	<b>Oral LD50 (rat)</b> 2546 mg/kg <b>Dermal LD50 (rat)</b> 1844 mg/kg
<b>Skin corrosion/irritation</b>	Phosphoric acid	Contact with skin will result in severe irritation. Corrosive to skin
	Proprietary ingredient 1	Causes severe skin burns
	Proprietary ingredient 2	Harmful in contact with skin. Causes skin irritation
<b>Eye damage/irritation</b>	Phosphoric acid	A severe eye irritant. Corrosive to eyes; contact can cause corneal burns
	Proprietary ingredient 1	Causes serious eye damage
	Proprietary ingredient 2	Causes serious eye irritation
<b>Respiratory/skin sensitization</b>	Phosphoric acid	No data available
	Proprietary ingredient 1	No information available
	Proprietary ingredient 2	Not a skin sensitizer based on components
<b>Germ cell mutagenicity</b>	Phosphoric acid	No data available
	Proprietary ingredient 1	Not considered to be genotoxic
	Proprietary ingredient 2	No known significant effects or critical hazards

<b>Carcinogenicity</b>	Phosphoric acid	No data available
	Proprietary ingredient 1	No information available
	Proprietary ingredient 2	No components are listed as carcinogens by IARC, ACGIH, OSHA or NTP above the threshold of 0.1%
<b>Reproductive toxicity</b>	Phosphoric acid	No data available
	Proprietary ingredient 1	Not considered to cause reproductive or developmental toxicity
	Proprietary ingredient 2	No known significant effects or critical hazards
<b>STOT (single exposure)</b>	Phosphoric acid	No data available
	Proprietary ingredient 1	Inhalation may cause burning of the nose and throat, nausea, vomiting and diarrhoea
	Proprietary ingredient 2	No known significant effects or critical hazards
<b>STOT (repeated exposure)</b>	Phosphoric acid	Prolonged exposures can cause necrosis of nasal passages and oedema of lungs
	Proprietary ingredient 1	No information available
	Proprietary ingredient 2	No known significant effects or critical hazards
<b>Aspiration toxicity</b>	Phosphoric acid	No data available
	Proprietary ingredient 1	No information available
	Proprietary ingredient 2	There is no data available

## SECTION 12 ECOLOGICAL INFORMATION

### Toxicity

	Endpoint	Duration (Hr.)	Species	Value
Phosphoric Acid	LC50	96	Fish	75.1mg/L
	EC50	48	Crustacea	>5.62mg/L
	EC50	72	Algae or other aquatic plants	15.29mg/L
	EC10	72	Algae or other aquatic plants	37.7mg/L
	NOEC	72	Algae or other aquatic plants	3.71mg/L
Proprietary ingredient 1	EC50	48	Daphnia magna (Water flea)	527mg/L
	LC50	96	Rainbow trout	368mg/L
	EC50	96	Bluegill sunfish	868mg/L
Proprietary ingredient 2	LC50	96	Rainbow Trout	32.15mg/L

Data extracted from Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Phosphoric acid	HIGH	HIGH
Proprietary ingredient 1	HIGH	No data available
Proprietary ingredient 2	Readily biodegradable based on components	

### Bio accumulative potential

Ingredient	Bioaccumulation
Phosphoric acid	LOW (LogKOW = 0.7699)
Proprietary ingredient 1	There is no evidence to suggest bioaccumulation will occur
Proprietary ingredient 2	No data available

### Mobility in soil

Ingredient	Mobility
Phosphoric acid	HIGH (KOC = 1)
Proprietary ingredient 1	No data available
Proprietary ingredient 2	No data available

## SECTION 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Product / packaging disposal</b>	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations.
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## SECTION 14 TRANSPORT INFORMATION

### Labels Required

<b>Marine Pollutant</b>	NO
<b>HAZCHEM</b>	Not Applicable

Land transport (Not Applicable): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

## SECTION 15 REGULATORY INFORMATION

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

#### PHOSPHORIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
Australian Inventory of Industrial Chemicals (AIIC)

## SECTION 16 OTHER INFORMATION

### Revision Schedule

Revision Date	05/11/2020
Initial Date	18/11/2016

### SDS Version Summary

Version	Issue Date	Sections Updated
3.1	05/11/2020	Sections 2,3,5,11,12,15.16 have been updated or corrected

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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#### Definitions and abbreviations

PC-TWA;	Permissible Concentration-Time Weighted Average
PC-STEL:	Permissible Concentration-Short Term Exposure Limit
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference of Government Industrial Hygienists
STEL:	Short Term Exposure Limit
TEEL:	Temporary Emergency Exposure Limit
IDLH:	Immediate Danger to Life or Health Concentrations
OSF:	Odour Safety Factor
NOAEL:	No Observed Effects Level
TLV:	Threshold Limit Value
LOD:	Limit Of Detection
OTV:	Odour Threshold Value
BCF:	Bio Concentration Factors
BEI:	Biological Exposure Index

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**End of SDS**