

SAFETY DATA SHEET



Issuing Date: 21-Jul-2016

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Version 1

1. IDENTIFICATION

Product Name	Sulfuric Acid
Product Identifier	REPURP_003_FHC_NG
Product Type:	Intermediate
Recommended Use	Intermediate.
Details of the supplier of the safety data sheet	1900 Kansas Avenue, Kansas City, KS 66105, Tel: 913-573-0200
E-mail Address	pgsds.im@pg.com
Emergency Telephone	Transportation (24 HR) CHEMTREC - 1-800-424-9300 (U.S./ Canada) or 1-703-527-3887 Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:.

Skin corrosion/irritation	Category 1
Subcategory	Sub-category A
Eye Damage / Irritation	Category 1
Corrosive to metals	Category 1

Signal Word	DANGER
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Hazard Statements	Causes severe skin burns and eye damage
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May be corrosive to metals

Hazard pictograms



Precautionary Statements	Wear protective gloves and protective clothing Wear eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray Wash hands thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray IF SWALLOWED: rinse mouth. Do NOT induce vomiting
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P234 - Keep only in original container
 P390 - Absorb spillage to prevent material damage
 P406 - Store in corrosive resistant aluminum container with a resistant inliner

Precautionary Statements - Response IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a POISON CENTER or doctor/physician

Precautionary Statements - Storage None

Precautionary Statements - Disposal None

Hazards not otherwise classified (HNOC) None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Sulphuric acid	Sulfuric acid	No	7664-93-9	40 - 100

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact 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. Immediately call a POISON CENTER or doctor/physician.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If symptoms persist, call a physician.

Ingestion Not an expected route of exposure. If swallowed: Clean mouth with water and afterwards drink plenty of water.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms/effects, acute and delayed Risk of serious damage to eyes. May cause burns.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Dry chemical. Water. Alcohol-resistant foam. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media None.

Special hazard Containers may explode when heated. Keep containers and surroundings cool with water spray.

Special protective equipment for fire-fighters	Dike fire-control water for later disposal. Fight fire with normal precautions from a reasonable distance.
Specific hazards arising from the chemical	None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective gloves/protective clothing and eye/face protection. Do not get in eyes, on skin, or on clothing.
Advice for emergency responders	In the case of vapor formation use a respirator with an approved filter.

Methods and materials for containment and cleaning up

Methods for containment	Contain spill. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible products	None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Sulphuric acid	7664-93-9	TWA: 0.2 mg/m ³ thoracic fraction	TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³	Mexico: TWA 1 mg/m ³

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Sulphuric acid	7664-93-9	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³

No relevant exposure guidelines for other ingredients

Exposure controls

Engineering Measures	No information available
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Personal Protective Equipment

Eye Protection	Manufacturing Sites: Wear eye/face protection Distribution, Workplace and Household Settings: Requires Eye Protection
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Hand Protection**Manufacturing Sites:**

Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion

Distribution, Workplace and Household Settings:

Protective gloves

Skin and Body Protection**Manufacturing Sites:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact

Respiratory Protection**Manufacturing Sites:**

Do not breathe vapors, mist or gas

Distribution, Workplace and Household Settings:

No special protective equipment required

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C

Liquid

Appearance

Clear

Odor

Sulfur, Pungent

Odor threshold

No information available

Property

Values

Note

pH value

1.2

Melting/freezing point

3 °C / 37 °F

Boiling point/boiling range

No information available

Flash point

No information available

Evaporation rate

No information available

Flammability (solid, gas)

No information available

Flammability Limits in Air

Upper flammability limit

No information available

Lower Flammability Limit

No information available

Vapor pressure

1.33 hPa

Vapor density

3.39

Relative density

1.80 - 1.84 g/cm3

Water solubility

No information available

Partition coefficient: n-octanol/water

No information available

Autoignition temperature

No information available

Decomposition temperature

No information available

Viscosity of Product

No information available

10. STABILITY AND REACTIVITY

Reactivity

None under normal use conditions.

Stability

Stable under normal conditions.

Hazardous polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

Conditions to Avoid

None under normal processing.

Materials to avoid

None in particular.

Hazardous Decomposition Products

None under normal use conditions.

11. TOXICOLOGICAL INFORMATION

Product Information

Information on likely routes of exposure

Inhalation	No known effect.
Skin contact	May cause burns.
Ingestion	No known effect.
Eye contact	Avoid contact with eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity	No known effect.
Skin corrosion/irritation	Causes burns.
Serious eye damage/eye irritation	Risk of serious damage to eyes.
Skin sensitization	No known effect.
Respiratory sensitization	No known effect.
Germ cell mutagenicity	No known effect.
Neurological Effects	No known effect.
Reproductive toxicity	No known effect.
Developmental toxicity	No known effect.
Teratogenicity	No known effect.
STOT - single exposure	No known effect.
STOT - repeated exposure	No known effect.
Target Organ Effects	No known effect.
Aspiration hazard	No known effect.
Carcinogenicity	No known effect.

Component Information

Chemical Name	CAS-No	Oral LD50	Dermal LD50	Inhalation LC50
Sulphuric acid	7664-93-9	2140 mg/kg bw	-	-
Water	7732-18-5	368000 mg/kg bw	-	-

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Persistence and degradability	No information available.
Bioaccumulative potential	No information available.
Mobility	No information available.
Other adverse effects	No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment**

Waste from Residues / Unused Products	Products covered by this SDS, in their original form, when disposed as waste, are corrosive hazardous waste, D002, according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations.
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Disposal recommendations	Products covered by this SDS, in their original form, when disposed as waste, are corrosive hazardous waste, D002, according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION**DOT**

UN no UN1830
UN Proper shipping name SULFURIC ACID SOLUTION
Description UN1830, SULFURIC ACID SOLUTION, 8, II
Hazard Class 8
Packing Group II
Special Provisions A3, A7, B3, B83, B84, IB2, N34, T8, TP2
Emergency Response Guide Number 137

IMDG

UN Number UN1830
UN Proper shipping name SULPHURIC ACID SOLUTION
Description UN1830, SULPHURIC ACID SOLUTION, 8, II
Transport hazard class(es) 8
Packing Group II
EmS-No F-A, S-B

IATA

UN no UN1830
UN Proper shipping name SULPHURIC ACID SOLUTION
Description UN1830, SULPHURIC ACID SOLUTION, 8, II
Hazard Class 8
Packing Group II
ERG Code 8L
IATA comment . The shipper is responsible for identifying any exemptions, including Limited Quantity, that may apply based on package size.

15. REGULATORY INFORMATION

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	SARA 313 - Threshold Values %
Sulphuric acid	7664-93-9	1.0

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):.

Chemical Name	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Sulphuric acid	7664-93-9	1000 lb	1000 lb	1000 lb

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):.

Chemical Name	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulphuric acid	7664-93-9	1000 lb	-	-	X

California Proposition 65

This product is not subject to warning labeling under California Proposition 65.

U.S. State Regulations (RTK)

Chemical Name	CAS-No	New Jersey
Sulphuric acid	7664-93-9	X
Chemical Name	CAS-No	Massachusetts
Sulphuric acid	7664-93-9	X
Chemical Name	CAS-No	Pennsylvania
Sulphuric acid	7664-93-9	X
Chemical Name	CAS-No	Rhode Island
Sulphuric acid	7664-93-9	X

International Inventories**United States**

For R&D Use Only.

Canada

This product is in compliance with CEPA for import by P&G.

Legend

United States Toxic Substances Control Act Section 8(b) Inventory (TSCA)

CEPA - Canadian Environmental Protection Act**16. OTHER INFORMATION****Issuing Date:** 21-Jul-2016**Revision Date:** 21-Jul-2016**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS