

Shell Chemical Appalachia LLC 300 Frankfort Rd Monaca, PA 15061

April 13, 2022

Sharon Carr, Water Quality Specialist Mark Gorog, Regional Manager Air Quality Program Pennsylvania Department of Environmental Protection Southwest Regional Office 400 Waterfront Drive Pittsburgh, PA 15222

RE: PA-04-00740C and PA0002208 Sulfuric Acid Spill, Which Occurred March 19, 2022

Dear Sharon and Mark,

Shell Chemical Appalachia LLC ("Shell") is submitting this incident report to the Pennsylvania Department of Environmental Protection (PADEP) regarding a sulfuric acid release from a tank into secondary containment on March 19, 2022. The National Pollutant Discharge Elimination System permit for the site is PA0002208 and the Air Plan Approval number is PA-04-00740C.

This incident investigation summary letter includes a follow up to the letters sent to Shawn Bell in the Water Quality Management Program on March 23, 2022, and a Malfunction Report sent to Mark Gorog in the Air Quality Program March 29, 2022. A PADEP Notification of Release Form was sent to Sharon Carr of PADEP and Rebecca Matsco of Potter Township on March 30, 2022.

Event Details:

On March 19, 2022, Shell received a delivery of 93% Sulfuric Acid in the spent caustic area within the water treatment plant area for offloading into Sulfuric Acid Tank, T-53503 or PADEP Tank #054A. After the driver and operator completed offloading the trailer, an employee noticed vapors coming from the tank/containment area and discovered the outlet blind flange N3(1) was leaking.

No personnel reported being exposed to the leak or the fumes, and no Sulfuric Acid leaked from secondary containment. The Sulfuric Acid was contained within the high wall secondary

containment area. The secondary containment area drain valve was closed at the time of the spill.

Before offloading the tank, the tank level was 1.8%, after offloading the tank level was 8%. Approximately 3,000 gallons were offloaded, and an estimated 2,195 gallons leaked into the secondary containment area from flange N3(1), with a conservatively calculated 358 pounds of vapor emissions.

Mitigation Measures:

The Sulfuric Acid in the secondary containment area was neutralized and completely pumped out on March 23, 2022. The Sulfuric Acid leaked was stopped by tightening bolts on the flange N3(1).

The flange is being inspected and the bolts will be tightened according to the manufacturers specification and certified with a PADEP certified inspector. Tightness testing will be performed before the tank is returned to service. The return to service date is anticipated to be within two weeks. After the repair is complete and witnessed by the Certified Inspector, the Modification Report will be submitted.

If you have any questions regarding this matter, please contact me at (724) 709-2467 or kimberly.kaal@shell.com.

Sincerely,

Kimberly Kaal

Kimberly Kaal Environmental Manager, Attorney-in-Fact

CC:

Scott Beaudway, Air Quality Specialist Anna Fabrizi, District Supervisor

Attachments:

Safety Data Sheets PADEP Notification of Release

NOTIFICATION OF RELEASE (Owners and Operators)

FACILITY I.D. NUMBER 04 - 12735

☑ Initial☐ Follow-Up

NOTIFICATION OF CONTAMINATION (Certified Installers and Inspectors)

INFORMATION FOR OWNERS AND OPERATORS (O/O)

The Storage Tank Program's Corrective Action Process (CAP) regulations establish requirements for owners and operators of storage tank systems and storage tank facilities to report confirmed releases and, in certain cases, suspected releases.

Suspected Release Reporting: Upon the completion of a suspected release investigation from which it could not be determined whether a release has occurred, the owner or operator must, within 15 days of the indication of the suspected release, complete and submit this form to the appropriate regional office of the Department (Subsection 245.304(c)(2)).

Confirmed Release Reporting: The owner or operator must notify the appropriate regional office of the Department by telephone as soon as practicable, but no later than 24 hours, after the confirmation of a release (Subsections 245.305(a) and (b)). Within 15 days of that telephone notification, the owner or operator must complete and submit this form to the appropriate regional office of the Department, to each municipality in which the release occurred, and to each municipality where that release has impacted environmental media or water supplies, buildings, or sewer or other utility lines (Subsections 245.305(c) and (e)). And if new impacts to environmental media or water supplies, buildings, or sewer or other utility lines are discovered after that initial written notification, the owner or operator must, within 15 days of the discovery of the new impact, complete and submit this form to the Department and to each impacted municipality (Subsections 245.305(d) and (e)).

INFORMATION FOR CERTIFIED INSTALLERS AND INSPECTORS (I/I)

In accordance with the Storage Tank Program's certification regulations, certified installers and inspectors must complete and submit this form to the Department within 48 hours of observing any of the following while performing services as a certified installer or inspector: a release of a regulated substance; suspected or confirmed contamination of soil, surface or groundwater from regulated substances; or a regulated substance in a containment structure or facility (Subsections 245.132(a)(4) and 245.132(a)(6)).

INSTRUCTIONS

Record the storage tank facility I.D. number at the top right-hand corner of each page of this form.

Owners and Operators (O/O): Indicate if this is an initial or follow-up notification by marking the appropriate box found in the top right-hand corner of this page.

- To report a Suspected Release, complete all information in Sections I, II, IIIA, IIIC, VI, VIII and IX.
- To report a Confirmed Release, complete all information in Sections I, II, IIIA, IIIB, IIIC, IV, V, VIII and IX.

Certified Installers and Inspectors (I/I): Complete <u>all</u> information in Sections I, II, IIIA, IIIC, VI or VII, VIII, and IX. Attach a copy of the failed, valid tightness test results, if applicable.

PLEASE SEND COMPLETED ORIGINAL FORM TO:

PA Department of Environmental Protection Environmental Cleanup and Brownfields Program Storage Tank Section

(and the appropriate address below, depending on where the FACILITY is located)

` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	, i 9	,	
Northwest Region 230 Chestnut Street Meadville, PA 16335-3481 PHONE: 814-332-6945 / 800-373-3398 FAX: 814-332-6121	North-central Region 208 W. Third Street, Suite 101 Williamsport, PA 17701 PHONE: 570-327-3636 FAX: 570-327-3420	Northeast Region 2 Public Square Wilkes-Barre, PA 18701-1915 PHONE: 570-826-2511 FAX: 570-820-4907	
Counties: Armstrong, Butler, Clarion, Crawford, Elk, Erie, Forest, Indiana, Jefferson, Lawrence, McKean, Mercer, Venango, Warren	Counties: Bradford, Cameron, Centre, Clearfield, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga, Union	Luzerne, Monroe, Northampton, Pi	
Southwest Region	South-central Region	Southeast Region	
400 Waterfront Drive Pittsburgh, PA 15222 PHONE: 412-442-4000 FAX: 412-442-4194	909 Elmerton Avenue Harrisburg, PA 17110 PHONE: 717-705-4705 / 800-541-2050 FAX: 717-705-4830	2 East Main Street Norristown, PA 19401 PHONE: 484-250-5900 FAX: 484-250-5961	
Counties: Allegheny, Beaver, Cambria, Fayette, Greene, Somerset, Washington, Westmoreland	Counties: Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, York		

I. FACILITY INFORMATION (Both O/	O and I/I)	II. OWNER/OPERATOR	R INFORMATION (Both O/O and I/I)	
Facility Name Facility I.D. Number		Owner Name		
Shell Chemicals Appalachia LLC 04-12735		Shell Chemical Appalachia	LLC	
Street Address (P.O. Box not acceptable)		Address		
300 Franfort Road City State	Zip Code	300 Frankfort Road City	State Zip Code	
Monaca PA	15601 -	Monaca	PA 15061 -	
County Munici		Telephone Number	177 10001	
Beaver Pott		<u>(724)</u> 709 - 2467		
·	none Number	Operator Name	Telephone Number	
Kimberly Kaal (724)	709 - 2467	Kimberly Kaal	(724) 709 - 2467	
II	I. REGULATED SUE	STANCE INFORMATION	V	
A. Type of Product(s) Involved (Mark All That Apply 図): <u>Both O/O and I/I</u>	B. Quantity (Gallons) o O/O Only	Product(s) Released: C. Contamination Suspected [S] or Confirmed [C] (Mark All That Apply 图) Both O/O and I/I		
Leaded Gasoline	,,			
Unleaded Gasoline				
Aviation Gasoline				
Kerosene				
Jet Fuel				
Diesel Fuel				
New Motor Oil				
Used Motor Oil				
Fuel Oil No. 1				
Fuel Oil No. 2				
Fuel Oil No. 4				
Fuel Oil No. 5				
Fuel Oil No. 6				
Other (Specify) Sulfuric Acid	,	<u>2</u> , <u>1</u> <u>9</u> <u>5</u>		
Unknown				
IV. C	ONFIRMED RELEAS	SE INFORMATION (O/O	Only)	
Date Release was Confirmed:	03 / 19 / 2022 m / d / y	Date Owner/Operator Sent Copy of this Written Notification to Local Municipality(ies) and Name of Municipality(ies) Notified:		
Date Owner/Operator Verbally Notified Approp Confirmed Release and Office Notified:	-	Date: 03 / 30 /	2022 Municipality Potter Township	
Date: 03 / 19 / 2022 Office South	thwest Region	Date: / /_ d	Municipality	
Source (Mark All That Apply 区):	How Discovered	(Mark All That Apply 図):	Environmental Media Affected and Impacts (Mark All That Apply 図):	
Tank (DEP Assigned Nos. <u>054A</u>)			Soil	
Piping System (Aboveground Regulated)			Sediment	
Piping System (Underground Regulated)	Bouting Look Detection	on	Surface Water	
Piping System (Non-Regulated)	J)	Ground Water	
Dispenser/Dispensing Equipment	- · · ·			
Spill Prevention Equipment	- I · ·	tivities	Bedrock	
Submersible Turbine Pump Head/Fittings		or Reports	Water Supplies	
Containment/Sump Failure	_ Water III Talik		Vapors/Product in Buildings	
Other (Specify)			Vapors/Product in Sewer/Utility Lines□	
			Ecological Receptors	
Cause (Mark All That Apply 区):	Supply Wall Sample I	Results		
Faulty Installation	」	ole Results		
Physical/Mechanical Failure	- ·			
Spill During Delivery	7			
Overfill at Delivery	7 Other (Specify)			
Vehicle Gas Tank Overfill	Unknown			
Product Delivery Hose Rupture]			
Accident/Natural Disaster				
Other (Specify)				
Unknown	J			

V. INTERIM REM	MEDIAL ACTIONS (O/O Only)			
Indicate the Interim Remedial Actions Planned, Initiated or				
	Planned Initiated Completed Not Applicable			
Regulated Substance Removed from Storage Tanks				
•				
• • • • • • • • • • • • • • • • • • • •				
Other (Specify)				
VI. SUSPECTED RELEASE / CON	TAMINATION INFORMATION (Both O/O and I/I)			
Date the Indication of a Suspected Release / Contaminatio	n was Observed: 03 / 19 / 2022 m d y			
Indication of Suspected Relea	se / Contamination (Mark All That Apply 区):			
☐ Unusual Level of Vapors	☐ Containment Sump Test Failure			
☐ Erratic Behavior of Product Dispensing Equipment	☐ Spill Prevention Equipment Test Failure			
☐ Release Detection Results Indicate a Release	Other (Specify) Visible leak from a flange			
☐ Discovery of Holes in the Storage Tank				
VII. CONFIRMED CONT	AMINATION INFORMATION (I/I Only)			
Date the Confirmed Contamination was Observed:	<u>03</u> / <u>19</u> / <u>2022</u> m / <u>d</u> / <u>y</u>			
Extent of Confirmed Co	ontamination (Mark All That Apply 図):			
☐ Product Stained or Product Saturated Soil or Backfill	☐ Free Product or Sheen on the Ground Water Surface			
☐ Ponded Product	☐ Free Product or Sheen on Surface Water			
☐ Free Product or Sheen on Ponded Water	Other (Specify) Acid contained in secondary containment and visible vapors			
VIII. ADDITIONAL I	NFORMATION (Both O/O and I/I)			
Provide any additional, relevant, available information concerning the release or contamination. If reporting a confirmed release, include specific details about the source and cause of the release, the affected environmental media, and any impacts to water supplies, buildings, or sewer or other utility lines. Owners or Operators reporting a suspected release should describe what procedures were followed to investigate the indication(s) of the suspected release noted in Section VI. Provide both DEP-assigned and owner/operator-assigned tank number(s), where applicable. Use additional 8½" x 11" sheets of paper, if necessary. During the fill process an operator noticed fumes and a visible leak. Approximately 2,195 gallons of liquids escaped from a tank located within our waste water treatment plant from PADEP Tank ID#054A. The tank's secondary containment prevented all liquids from leaving the site. Though the Reportable Quantity was not exceeded; out of an abundance of caution, Shell notified the Pennsylvania Department of Environmental Protection, the National Response Center, and the Local Emergency Planning Committee. There was no harm to personnel, the community, or the environment because of this event. The sulfuric acid has been vacuumed out of the secondary containment and transported to the appropriate disposal facility. The release was estimated at 2,195 gallons based on gauge readings, was contained to the secondary containment, and did not threaten any state waterways prior to disposal.				

IX. CERTIFICATION (Both O/O and I/I)			
OWNER OR OPERATOR CERTIFICATION			
I, Kimberly Kaal (Print Name)	, hereby certify, under penalty of law as provided in 18 Pa.		
C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the owner that the information provided by me in this notification is true, accurate and comp	or operator of the above referenced storage tank facility and lete to the best of my knowledge and belief.		
Kimberly Kaal	3 / 30 / 2022		
Signature of Owner or Operator	Date		
CERTIFIED INSTALLER CERTIFICATION			
I,(Print Name)	, hereby certify, under penalty of law as provided in 18 Pa.		
C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the certiabove referenced storage tank facility and that the information provided by me in my knowledge and belief.			
	// Date		
Signature of Certified Installer	Date		
Installer Certification Number	Company Certification Number		
CERTIFIED INSPECTOR CERTIFICATION			
I,(Print Name)	, hereby certify, under penalty of law as provided in 18 Pa.		
C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the certifier referenced storage tank facility and that the information provided by me in this reknowledge and belief.	d inspector who performed inspection activities at the above notification is true, accurate and complete to the best of my		
Signature of Certified Inspector	Date		
Inspector Certification Number	Company Certification Number		



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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SULFURIC ACID 93% 66B

Recommended use of the chemical and restrictions on use

Recommended use : Industrial chemical

Manufacturer or supplier's details

Company : Univar Solutions USA, Inc. **Address** : 3075 Highland Pkwy Suite 200

Downers Grove, IL 60515 United States of America (USA)

United States of America (U

Emergency telephone number:

Transport North America: CHEMTREC (1-800-424-9300) CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department

E-mail: SDSNA@univarsolutions.com SDS Requests: 1-855-429-2661 Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion : Category 1A

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :

下至

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention**:

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth, Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/doctor.

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P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
7664-93-9	Sulfuric acid	90 - 100

Any Concentration shown as a range is due to batch variation.

Molecular formula : H2-O4-S

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with difficul-

ty.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear. Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

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Suitable extinguishing media : Dry chemical

Carbon dioxide (CO2) : High volume water jet

Unsuitable extinguishing

media

Water

Specific hazards during fire-

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

: sulfur oxides

Specific extinguishing meth-

Further information

ods

: Use a water spray to cool fully closed containers.

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essarv.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment.

tive equipment and emergency procedures

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours/dust.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

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the technological safety standards.

Materials to avoid : Do not store near acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
7664-93-9	Sulfuric acid	TWA (Thorac-	0.2 mg/m3	ACGIH
		ic fraction)		
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Clear, Colorless, amber

Odour : pungent

Odour Threshold : No data available pH : 0.3 @ 25 °C (77 °F)

Freezing Point (Melting

point/range)

: -31 - 10.56 °C (-24 - 51.01 °F)

Boiling Point (Boiling point/boiling range)

: 217 - 330 °C (423 - 626 °F)

Flash point : No data available

Evaporation rate : No data available Flammability (solid, gas) : No data available Upper explosion limit : No data available

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Lower explosion limit : No data available

Vapour pressure : $< 0.3 \text{ mmHg} @ 25 ^{\circ}\text{C} (77 ^{\circ}\text{F})$

Relative vapour density : 3.4 @ 20 °C (68 °F)

(Air = 1.0)

Relative density : 1.8347 - 1.8437 @ 25 °C (77 °F)

Reference substance: (water = 1)

Density : Estimated 1.837 g/cm3 @ 20 °C (68 °F)

15.3 - 15.4 lb/gal @ 25 °C (77 °F)

Solubility(ies)

Water solubility : completely miscible Solubility in other solvents : No data available Partition coefficient: n- : No data available

octanol/water

Auto-ignition temperature : No data available

Thermal decomposition : 340 °C

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability :

Possibility of hazardous reac-

Incompatible materials

tions

: Stable under normal conditions.

Acid reacts with most metals to release hydrogen gas which

can form explosive mixtures with air.

Reacts with organic materials and may cause ignition of finely

divided materials on contact.

Conditions to avoid : Avoid contact with combustible material (paper, wool, oil).

Metals carbide chlorate

Alkalis Metals

carbide chlorates fuminates nitrates

Organic materials Strong oxidizing agents strong reducing agents

water

Sulphur compounds

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Hazardous decomposition

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products

: corrosive vapors Sulphur oxides toxic fumes

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SECTION 11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Components:

7664-93-9:

Species: Rabbit

Result: Causes severe burns.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Components:

7664-93-9:

Species: Rabbit

Result: Risk of serious damage to eyes.

Germ cell mutagenicity

Components:

7664-93-9:

Genotoxicity in vitro

: Test Type: Ames test

Species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Carcinogenicity

IARC Group 1: Carcinogenic to humans

7664-93-9 Sulfuric acid

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP Known to be human carcinogen

7664-93-9 Sulfuric acid

Further information

Product:

Remarks: No data available

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and

federal regulations.

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Uni-

var Solutions ChemCare: 1-800-909-4897

Dispose of in accordance with all applicable local, state and

federal regulations.

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Uni-

var Solutions ChemCare: 1-800-909-4897

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

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SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN1830, Sulfuric acid solution, 8, II

IATA (International Air Transport Association):

UN1830, Sulphuric acid Solution, 8, II

IMDG (International Maritime Dangerous Goods):

UN1830, SULFURIC ACID SOLUTION, 8, II

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : D2A: Very Toxic Material Causing Other Toxic Effects

D2B: Toxic Material Causing Other Toxic Effects

E: Corrosive Material

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ Calculated produc	
•		(lbs)	(lbs)
Sulfuric acid	7664-93-9	1000	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sulfuric acid	7664-93-9	1000	1000

SARA 311/312 Hazards : Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : No chemicals in this material are subject to the reporting re-

guirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A: 7664-93-9 Sulfuric acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

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7664-93-9 Sulfuric acid

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

7664-93-9

Sulfuric acid

Pennsylvania Right To Know

7664-93-9

Sulfuric acid

7732-18-5

Water

California Prop 65

WARNING: This product can expose you to chemicals including Sulfuric acid, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

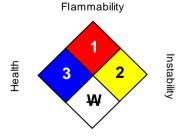
KECI: On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

SECTION16. OTHER INFORMATION

NFPA:



Special hazard.

HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	2

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions



Version 1.2 Revision Date: 10/03/2019

beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 10/03/2019

Material number:

16144451, 16142210, 16140162, 16141097, 16140266, 16140348, 16141851, 16141877, 16140763, 16141633, 16143767, 16143769, 16142063, 16142367, 16142360, 16140603, 16142270

Key or legend to abbreviations and acronyms used in the safety data sheet					
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%		
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level		
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency		
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health		
CNS	Central Nervous System	NTP	National Toxicology Program		
CAS	Chemical Abstract Service	NZloC	New Zealand Inventory of Chemicals		
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level		
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration		
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration		
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit		
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances		
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic		
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act		
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit		
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.		
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value		
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average		

SDS Number: 100000039101 10 / 11 SULFURIC ACID 93% 66B



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	Substances in China		
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

SDS Number: 100000039101 11 / 11 SULFURIC ACID 93% 66B



SAFETY DATA SHEET

1. Identification

Product identifier SULFURIC ACID 98% Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name BRENNTAG CANADA INC

Address 43 Jutland Rd.

Toronto, ON M8Z 2G6

Canada

Telephone 416-259-8231

Website http://www.brenntag.com/canada/en/
E-mail RegulatoryAffairs@Brenntag.ca

Emergency phone number 1-855-273-6824

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, inhalation Category 2

Skin corrosion/irritation Category 1A
Serious eye damage/eye irritation Category 1
Health hazards not otherwise classified Category 1
Hazardous to the aquatic environment, acute Category 3

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

Label elements



Signal word Danger

Hazard statements Causes severe skin burns and eye damage. Fatal if inhaled. Causes serious eye damage.

Harmful to aquatic life. Harmful to aquatic life with long lasting effects. Presents a health hazard

which is not otherwise classified.

Precautionary statement

Prevention Do not breathe vapour. Wash thoroughly after handling. Use only outdoors or in a well-ventilated

area. Avoid release to the environment. Wear protective gloves/protective clothing/eye

protection/face protection. Wear respiratory protection.

Response IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor. Specific treatment is urgent (see this label). Wash contaminated

clothing before reuse.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None known.

Supplemental information 98 % of the mixture consists of component(s) of unknown acute dermal toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
SULFURIC ACID		7664-93-9	98
Other components below reportable	e levels		2

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control centre immediately.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control centre immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

Ingestion Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Foam. Powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Move containers from fire area if you can do so without risk.

Fire fighting equipment/instructions

Specific methods

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapours or spray mist. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use standard firefighting procedures and consider the hazards of other involved materials.

Methods and materials for containment and cleaning up

Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Conditions for safe storage, including any incompatibilities Respiratory protection is "only required" when sprays are present in the air.

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Recommendations listed in this section indicate the type of equipment, which will provide protection against overexposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

Occupational exposure limits

Components	Туре	Value	Form
SULFURIC ACID (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.
Canada. Alberta OELs (Occupati	ional Health & Safety Code, Sch	edule 1, Table 2)	
Components	Туре	Value	
SULFURIC ACID (CAS 7664-93-9)	STEL	3 mg/m3	
	TWA	1 mg/m3	
Canada. British Columbia OELs. Safety Regulation 296/97, as am	• •	s for Chemical Substances, O	ccupational Health and
Components	Туре	Value	Form
SULFURIC ACID (CAS 7664-93-9)	TWA	0.2 mg/m3	Mist.
Canada. Manitoba OELs (Reg. 2 [,]	17/2006, The Workplace Safety	And Health Act)	
Components	Туре	Value	Form
SULFURIC ACID (CAS	TWA	0.2 mg/m3	Thoracic fraction.
7664-93-9)			
/ଗ୍ୟ-୨3-୨) Canada. Ontario OELs. (Control	of Exposure to Biological or Ch	nemical Agents)	
,	of Exposure to Biological or Cl Type	nemical Agents) Value	Form
Canada. Ontario OELs. (Control		G ,	Form Thoracic fraction.
Canada. Ontario OELs. (Control Components SULFURIC ACID (CAS	Type TWA	Value 0.2 mg/m3	Thoracic fraction.
Canada. Ontario OELs. (Control Components SULFURIC ACID (CAS 7664-93-9)	Type TWA	Value 0.2 mg/m3	Thoracic fraction.
Canada. Ontario OELs. (Control Components SULFURIC ACID (CAS 7664-93-9) Canada. Quebec OELs. (Ministry	Type TWA of Labor - Regulation respecti	Value 0.2 mg/m3 ng occupational health and s	Thoracic fraction.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

The following are recommendations only for the use of PPE. These recommendations cannot anticipate the variety of workplaces where the product will be used, nor how the product will be used in a variety of applications and processes. In determining appropriate PPE and engineering controls, it is the duty of the employer / user to evaluate their use of this product in accordance with the requirements of the local jurisdiction, and, if necessary, in conjunction with a professional industrial hygienist.

Eye/face protection Chemical respirator with organic vapour cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapour cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid. **Form** Liquid.

CLEAR PALE YELLOW Colour

Odour **ODOURLESS Odour threshold** Not available.

0.3

Melting point/freezing point Not available.

Initial boiling point and boiling 286.2 °C (547.16 °F) estimated

range

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

Not available. Explosive limit - lower (%)

Explosive limit - upper

Not available.

(%)

Not available. Vapour pressure Vapour density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Material name: SULFURIC ACID 98% WHMIS Group #: 00075771

Issue date: 28-May-2018 Version #: 01

Decomposition temperature Not available.

Viscosity

Other information

Density 15.40 lbs/gal
Explosive properties Not explosive.
Oxidising properties Not oxidising.
Percent volatile 2 % estimated

Specific gravity 1.85

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerisation does not occur.

resetions

reactions

Conditions to avoidContact with incompatible materials.

Not available.

Incompatible materials Strong oxidising agents.

Hazardous decomposition No hazardou

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Fatal if inhaled.

Skin contactCauses severe skin burns.Eye contactCauses serious eye damage.IngestionCauses digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity Fatal if inhaled.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Canada - Alberta OELs: Carcinogen category

SULFURIC ACID (CAS 7664-93-9)

Suspected human carcinogen.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components		Species	Test results
SULFURIC ACID (CAS 7664	-93-9)		
Aquatic			
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 hours
	LC50	Aesop shrimp (Pandalus montagui)	42.5 mg/l, 48 hours
		Cockle (Cerastoderma edule)	200 - 500 mg/l, 48 hours
		Common shrimp, sand shrimp (Crangon crangon)	70 - 80 mg/l, 48 hours
		Green or European shore crab (Carcinus maenas)	70 - 80 mg/l, 48 hours
Fish	LC50	Starry, european flounder (Platichthys flesus)	100 - 330 mg/l, 48 hours
		Western mosquitofish (Gambusia affinis)	42 mg/l, 24 hours
			42 mg/l, 48 hours
			42 mg/l, 96 hours
sistence and degradability accumulative potential bility in soil	No data is ava No data availa No data availa		

13. Disposal considerations

Other adverse effects

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions**

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

Transport information on packaging may be different from that listed. Transportation information on packaging may be different from that listed.

DOT

UN number UN1830

UN proper shipping name SULFURIC ACID

Transport hazard class(es)

Class 8 Subsidiary risk П Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ERG number 137

IATA

UN number UN1830

UN proper shipping name

Transport hazard class(es)

SULFURIC ACID

Class 8 Subsidiary risk Packing group Ш Material name: SULFURIC ACID 98% WHMIS Group #: 00075771

Issue date: 28-May-2018 Version #: 01

Environmental hazards No. **ERG Code** 137

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1830

UN proper shipping name SULPHURIC ACID with more than 51% acid solution (SULFURIC ACID)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group || Environmental hazards

Marine pollutant No. EmS F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT; IATA; IMDG; TDG



TDG

UN number UN1830

UN proper shipping name SULPHURIC ACID (SULFURIC ACID)

Not established.

Transport hazard class(es)

Class 8
Subsidiary risk Packing group ||

Environmental hazards Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

Canada DSL Inventory: Registration Status

SULFURIC ACID (CAS 7664-93-9) Listed

Canada NPRI (Supplier Notification Required): Listed substance

SULPHURIC ACID (CAS 7664-93-9) Listed

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

SULFURIC ACID (CAS 7664-93-9)

Precursor Control Regulations

SULFURIC ACID (CAS 7664-93-9) Class B

Material name: SULFURIC ACID 98% WHMIS Group #: 00075771

Issue date: 28-May-2018 Version #: 01

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

SULFURIC ACID (CAS 7664-93-9) Listed.

SARA 304 Emergency release notification

SULFURIC ACID (CAS 7664-93-9) 1000 lbs

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name CAS number Reportable **Threshold Threshold Threshold** quantity planning quantity planning quantity, planning quantity, (pounds) (pounds) lower value upper value (pounds) (pounds)

SULFURIC ACID 1000 7664-93-9 1000 Yes

SARA 311/312 Hazardous

Classified hazard

chemical

Skin corrosion or irritation

Serious eye damage or eye irritation categories

SARA 313 (TRI reporting)

Chemical name CAS number % by wt. SULFURIC ACID 7664-93-9 98

Other federal regulations

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

SULFURIC ACID (CAS 7664-93-9) 6552

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

SULFURIC ACID (CAS 7664-93-9) 20 %WV

DEA Exempt Chemical Mixtures Code Number

SULFURIC ACID (CAS 7664-93-9) 6552

US state regulations

US. California Proposition 65

Not listed.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)* Australian Inventory of Chemical Substances (AICS) Australia Yes Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No China Inventory of Existing Chemical Substances in China (IECSC) Yes Material name: SULFURIC ACID 98% WHMIS Group #: 00075771

Issue date: 28-May-2018 Version #: 01

Country(s) or region Inventory name On inventory (yes/no)* Europe European Inventory of Existing Commercial Chemical Yes Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Existing Chemicals List (ECL) Yes Korea New Zealand New Zealand Inventory Yes **Philippines** Philippine Inventory of Chemicals and Chemical Substances Yes (PICCS)

Taiwan Taiwan Toxic Chemical Substances (TCS) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

16. Other information

28-May-2018 Issue date

Version No.

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representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with applicable federal, state, and local law. This SDS shall not in any way limit or preclude the operation and effect of any of the provisions of

Brenntag's terms and conditions of sale.

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).