# Safety Data Sheet acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: January 17, 2019

Revision: November 28, 2018

<ul> <li>Product identifier</li> <li>Trade name: <u>Sulfuric Acid, 50% v/v (1:1) (TS44)</u></li> <li>Product code: DUSA1940-G</li> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> <li>Details of the supplier of the Safety Data Sheet</li> <li>Manufacturer/Supplier: AquaPhoenk Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331</li> <li>Phone: (717)832-1291</li> <li>Toll-Free: (866)632-1291</li> <li>info@aquaphoenksci.com</li> <li>Distributor:</li> <li>Dubois Chemicals Inc. 3630 East Kemper Rd</li> <li>Gionagabheenksci.com</li> <li>Distributor:</li> <li>Bubois: (1/17)832-1291</li> <li>Toll-Free: (866)632-1291</li> <li>info@aquaphoenksci.com</li> <li>Distributor:</li> <li>Dubois Chemicals Inc. 3630 East Kemper Rd</li> <li>Gionagabheenksci.com</li> <li>Bistributor:</li> <li>Bubois: (1/17)832-1291</li> <li>Toll-Free: (866)632-1291</li> <li>info@aquaphoenksci.com</li> <li>Distributor:</li> <li>Dubois Chemicals Inc. 3630 East Kemper Rd</li> <li>Gionagabheenksci.com</li> <li>Bistributor:</li> <li>Altist Causes serieus eve anage.</li> <li>2 Hazard(s) identification</li> <li>Classification of the substance or mixture Met. Corr. 1 H290 May be corrosive to metals. Skin Corr. 1 A H314 Causes serieus eve damage.</li> <li>Eye Dam. 1 H318 Causes serieus eve damage.</li> <li>Eye Dam. 1 H318 Causes serieus eve damage.</li> <li>Label elements</li> <li>The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms:</li> <li>GitSo5</li> <li>Signal word: Danger</li> <li>Hazard statements: H290 May be corosive to metals. H314 Causes severe skin burns and eve damage.</li> <li>Precutionary statements: H290 May be corosive to metals. H314 Causes severe skin burns and eve damage.</li> <li>Precutionary statements: H</li></ul>	1 Identification	
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(Cont'd. on page 2)	GHS05	

<25%

75-100%

### Safety Data Sheet

#### acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: January 17, 2019

Revision: November 28, 2018

#### Trade name: Sulfuric Acid, 50% v/v (1:1) (TS44)

(Cont'd. of page 1) P280 Wear protective gloves/protective clothing/eye protection. 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 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 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. P310 Wash contaminated clothing before reuse. P363 P390 Absorb spillage to prevent material damage. Store locked up. P405 P406 Store in corrosive resistant container with a resistant inner liner. Dispose of contents/container in accordance with local/regional/national/international P501 regulations. · Other hazards There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

### · Components:

7732-18-5 Water

7664-93-9 Sulfuric acid

📀 Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318

#### · Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

### 4 First-aid measures

#### <sup>•</sup> Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

#### · After skin contact:

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate help for blistering or open wounds.

### · After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

#### · After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Strong caustic effect on skin and mucous membranes.

Gastric or intestinal disorders when ingested.

### Eye damage.

(Cont'd. on page 3)

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(Cont'd. of page 2)

Acidosis

• Danger: Danger of gastric perforation.

Causes serious eye damage.

Danger of impaired breathing.

· Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.

If medical advice is needed, have product container or label at hand.

### **5 Fire-fighting measures**

### <sup>·</sup> Extinguishing media

• Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: None.
- Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

### 6 Accidental release measures

<sup>•</sup> Personal precautions, protective equipment and emergency procedures

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

· Environmental precautions Do not allow to enter sewers/ surface or ground water.

### · Methods and material for containment and cleaning up

Use limestone to neutralize and/or absorb spill.

Clean the affected area carefully; suitable cleaners are: Warm water

Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

### · Handling

• Precautions for safe handling:

Avoid splashes or spray in enclosed areas. Use only in well ventilated areas. Avoid breathing mist, vapors, or spray.

(Cont'd. on page 4)

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Trade name: Sulfuric Acid, 50% v/v (1:1) (TS44)

(Cont'd. of page 3)

Avoid contact with the eyes and skin. Open and handle receptacle with care.

 Conditions for safe storage, including any incompatibilities
 Requirements to be met by storerooms and receptacles: Store in cool, dry conditions in well sealed receptacles.

Store only in the original receptacle. Unsuitable material for receptacle: steel. Unsuitable material for receptacle: aluminium. • Information about storage in one common storage facility:

Store away from foodstuffs. Do not store together with alkalis (caustic solutions). Store away from metals.

Specific end use(s) No relevant information available.

### 8 Exposure controls/personal protection

### <sup>·</sup> Control parameters

Components with limit values that require monitoring at the workplace:				
7664-93-9 Sulfu	7664-93-9 Sulfuric acid			
PEL (USA)	Long-term value: 1 mg/m <sup>3</sup>			
REL (USA)	Long-term value: 1 mg/m <sup>3</sup>			
TLV (USA)	Long-term value: 0.2* mg/m <sup>3</sup> *as thoracic fraction			
EL (Canada)	Long-term value: 0.2 mg/m <sup>3</sup> ACGIH A2; IARC 1			
EV (Canada)	Long-term value: 0.2 mg/m <sup>3</sup>			
LMPE (Mexico)	Long-term value: 0.2* mg/m³ A2;*fracción torácica			

### • Exposure controls

### · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale dust / smoke / mist.

- Engineering controls: Provide adequate ventilation.
- Breathing equipment: Use suitable respiratory protective device when high concentrations are present.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. **Material of gloves** 

Nitrile rubber, NBR

(Cont'd. on page 5)

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Revision: November 28, 2018

Trade name: Sulfuric Acid, 50% v/v (1:1) (TS44)

(Cont'd. of page 4)

Neoprene gloves Natural rubber, NR Laminated film gloves.

- Not suitable are gloves made of the following materials: PVA gloves
- · Eye protection:



Safety glasses

· Body protection: Protective work clothing

- Limitation and supervision of exposure into the environment No relevant information available.
- · Risk management measures No relevant information available.

### 9 Physical and chemical properties

Information and a standard standards	- I - K P P
Information on basic physical a	nd chemical properties
· Appearance: Form:	Liquid
Color:	Liquid Colorless
· Odor:	Characteristic
· Odor threshold:	Not determined.
pH-value at 20 ℃ (68 °F):	<2.0
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.
· Flash point:	The product is not flammable.
•	
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	Not determined.
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
<ul> <li>Oxidizing properties:</li> </ul>	Not determined.
· Vapor pressure:	Not determined.
· Density:	
Relative density:	1.15-1.30
Vapor density:	Not determined.
Evaporation rate:	Not determined.
<ul> <li>Solubility in / Miscibility with</li> </ul>	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	er): Not determined.
	(Cont'd. on page

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(Cont'd. of page 5)

· Viscosity **Dvnamic:** Kinematic: <sup>•</sup> Other information

Not determined. Not determined. No relevant information available.

### 10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

#### <sup>•</sup> Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

Corrosive action on metals.

Reacts with certain metals. Reacts with alkali (lyes).

Reacts with oxidizing agents.

· Conditions to avoid No relevant information available.

Incompatible materials

Metals.

Alkalis

Strong oxidizers such as perchlorates, bromates, and nitrates; hydrofluoric acid.

· Hazardous decomposition products Sulfur oxides (SOx)

### **11 Toxicological information**

Information on toxicological effects

- · Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · On the skin: Strong caustic effect on skin and mucous membranes.
- · On the eye: Strong caustic effect.
- · Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

#### · NTP (National Toxicology Program):

7664-93-9 Sulfuric acid

### · OSHA-Ca (Occupational Safety & Health Administration):

- None of the ingredients are listed.
- · Probable route(s) of exposure:
- Ingestion. Inhalation.

Eye contact.

Skin contact.

(Cont'd. on page 7)

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(Cont'd. of page 6)

· Germ cell mutagenicity: Based on available data, the classification criteria are not met.

• Carcinogenicity: Based on available data, the classification criteria are not met.

• Reproductive toxicity: Based on available data, the classification criteria are not met.

• STOT-single exposure: Based on available data, the classification criteria are not met.

- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

### 12 Ecological information

#### · Toxicity

- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably increased after use, the aqueous waste, emptied into drains, is only low water-dangerous.

- <sup>•</sup> Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No relevant information available.

### 13 Disposal considerations

#### Waste treatment methods

· Recommendation:

Dilute concentrate with water and neutralize afterwards with suitable material (lime or chalk). The formed salts are inert and pose little hazard.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

#### <sup>·</sup> Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

14 Transport information		
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN2796	
· UN proper shipping name		
DOT	Sulfuric acid	
		(Cont'd. on page 8

### acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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	(Cont'd. of	bage
· ADR/RID/ADN, IMDG	SULPHURIC ACID	
	Sulphuric acid	
<ul> <li>Transport hazard class(es)</li> </ul>		
DOT		
$\wedge$		
di 34 contosve		
$\mathbf{V}$		
Class	8	
Label		
ADR/RID/ADN		
Class Label	8 (C1) 8	
	0	
· IMDG, IATA		
5.3		
8		
· Class	8	
· Label	8	
<sup>·</sup> Packing group · DOT, ADR/RID/ADN, IMDG, IATA	11	
	"	
<ul> <li>Environmental hazards</li> <li>Marine pollutant:</li> </ul>	No	
Special precautions for user	Warning: Corrosive substances	
· Danger code (Kemler): · EMS Number:	80 F-A,S-B	
· Segregation groups	Acids	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code		
	Not applicable.	

### **15 Regulatory information**

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

· United States (USA)

·SARA

· Section 302 (extremely hazardous substances):

None of the ingredients are listed.

(Cont'd. on page 9)

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	(Cont'd. of page
· Section 355 (extremely hazardous substances):	
7664-93-9 Sulfuric acid	
· Section 313 (Specific toxic chemical listings):	
7664-93-9 Sulfuric acid	
· TSCA (Toxic Substances Control Act)	
All ingredients are listed.	
· Proposition 65 (California)	
· Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity for females:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity for males:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
· EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
· IARC (International Agency for Research on Cancer):	
None of the ingredients are listed.	
· Canadian Domestic Substances List (DSL) (Substances not listed.):	
All ingredients are listed.	
6 Other information	
This information is based on our present knowledge. However, this shall not constitut specific product features and shall not establish a legally valid contractual relationships of the stable of the	ute a guarantee for al lip.
<ul> <li>Abbreviations and acronyms:</li> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> </ul>	

LC50: Lethal concentration, 50 percent

- LD50: Lethal dose, 50 percent
- PBT: Persistant, Bio-accumulable, Toxic
- vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health Administration

- Met. Corr.1: Corrosive to metals Category 1
- Skin Corr. 1A: Skin corrosion/irritation Category 1A

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

(Cont'd. on page 10)

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(Cont'd. of page 9)

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers

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