

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/08/2013 Revision date: 08/15/2014 Supersedes: 10/08/2013

Version: 1.1

SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking
I.1. Product identifier	
Product form	: Mixture
Product name	: Sulfuric Acid, 5% v/v
Product code	: LC25570
I.2. Relevant identified uses of the subs	stance or mixture and uses advised against
Jse of the substance/mixture	: For laboratory and manufacturing use only.
I.3. Details of the supplier of the safety	data sheet
_abChem Inc Jackson's Pointe Commerce Park Building 1000 Zelienople, PA 16063 - USA Γ 412-826-5230 - F 724-473-0647 <u>nfo@labchem.com</u> - <u>www.labchem.com</u>), 1010 Jackson's Pointe Court
I.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazards identification	
2.1. Classification of the substance or n	nixture
GHS-US classification	
Skin Corr. 1A H314	
Eye Dam. 1 H318	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	GHS05
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS-US)	: P260 - Do not breathe mist, vapours, spray
	 P264 - Wash exposed skin thoroughly after handling P264 - Wash exposed skin thoroughly after handling P280 - Wear protective gloves, protective clothing, eye protection, face protection P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position 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 P310 - Immediately call a POISON CENTER or doctor/physician P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to comply with local, state and federal regulations
2.3. Other hazards	
Other hazards not contributing to the classification	: None.
2.4. Unknown acute toxicity (GHS-US)	
Unknown acute toxicity (GHS-US) No data available	
	on on ingredients

Not applicable

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3.2. Mixture			
Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	91.62	Not classified
Sulfuric Acid, 96% w/w	(CAS No) 7664-93-9	8.38	Skin Corr. 1A, H314 Eve Dam. 1, H318

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after eye contact	: Causes serious eye damage.
4.3. Indication of any immediate medical	attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the sub	
Reactivity	: Thermal decomposition generates : Corrosive vapours.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	lipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Safety glasses. Gloves. Protective clothing. Head/neck protection.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
	authorities if liquid enters sewers or public waters.
, , ,	
6.3. Methods and material for containment	•
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe mist, vapours, spray. Avoid contact during pregnancy/while nursing.
Hygiene measures	: Wash exposed skin thoroughly after handling.
7.2. Conditions for safe storage, includin	g any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use.
Incompatible products	: Strong bases. metals. cyanides.
Incompatible materials	: Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Sulfuric Acid, 96% w/w (7664-93-9)		
USA ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Colour	: Colourless
Odour	: None.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.05 g/ml
Solubility	 Soluble in water. Water: Solubility in water of component(s) of the mixture : Sulfuric Acid, 96% w/w: Complete

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Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 1.13 cSt
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: None.
Explosive limits	: No data available

9.2. **Other information**

No additional information available

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
Thermal	decomposition generates : Corrosive vapours.
10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
Reacts	violently with (some) bases: release of heat.
10.4.	Conditions to avoid
Direct su	unlight. Extremely high or low temperatures.
10.5.	Incompatible materials
metals.	Strong bases. cyanides.
10.6.	Hazardous decomposition products
Culture as	ampoundo. Thermal decomposition generates : Corrective veneuro

Sulfur compounds. Thermal decomposition generates : Corrosive vapours.

SECTIO	ON 11: Toxicological information
11.1.	Information on toxicological effects

Acute toxicity

: Not classified

Sulfuric Acid, 96% w/w (7664-93-9)		
LD50 oral rat	2140 mg/kg bodyweight (Rat; Experimental value)	
Water (7732-18-5)		
LD50 oral rat	≥ 90000 mg/kg	
ATE US (oral)	90000 mg/kg bodyweight	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Serious eye damage/irritation	: Causes serious eye damage.	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Sulfuric Acid, 96% w/w (7664-93-9)		
IARC group	1 - Carcinogenic to humans	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
Symptoms/injuries after eye contact	: Causes serious eye damage.	

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SECTION 12: Ecological information

12.1. Toxicity

Sulfuric Acid, 96% w/w (7664-93-9)	
LC50 fishes 1	42 mg/l (96 h; Gambusia affinis)
EC50 Daphnia 1	29 mg/l (24 h; Daphnia magna)
LC50 fish 2	49 mg/l (48 h; Lepomis macrochirus)
TLM fish 1	42 mg/l (96 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	6900 mg/l (24 h; Pseudomonas fluorescens)

12.2. Persistence and degradability

Sulfuric Acid, 5% v/v		
Persistence and degradability	Not established.	
Sulfuric Acid, 96% w/w (7664-93-9)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
Water (7732-18-5)		
Persistence and degradability	Not established.	

12.3. Bioaccumulative potential

Sulfuric Acid, 5% v/v	
Bioaccumulative potential	Not established.
Sulfuric Acid, 96% w/w (7664-93-9)	
Log Pow	-2.20 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable.
Water (7732-18-5)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects	
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.

SECTION 13: Disposal considerations 13.1. Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations. Dispose of Waste disposal recommendations contents/container to comply with local, state and federal regulations. Ecology - waste materials : Avoid release to the environment. **SECTION 14: Transport information** In accordance with DOT Transport document description : UN2796 Sulfuric acid with not more than 51% acid, 8, II UN-No.(DOT) : 2796 DOT NA no. : UN2796

DOT Proper Shipping Name : Sulfuric acid with not more than 51% acid Department of Transportation (DOT) Hazard : 8 - Class 8 - Corrosive material 49 CFR 173.136 Classes

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Packing group (DOT) DDT Special Provisions (49 CFR 172:102) I A - For combination packagings, if glass inner packagings (including ampoules) are used, they not reackagings and the backet with the bacterian thirty discuss that receptates before packing in outer packagings, must be corrosion-resistant or have protection against corrosion. Ed Not SOU, MC 301, MC 301, MC 302, MC 303, MC 303, and NC 303 and DOT 406 cargo transs are edited and the packet with the bacterian thirty discuss that are equal to 110 kPa at 50 C (11) for 12 k2P, or 100 kPa at 50 C (11) for 41 k2P, or 100 kPa at 50 C (11) for 40 k2P, or 100 kPa at 50 C (11) for 41 k2P, or 100 kPa at 50 C (11) for 40 k2P, or 100 kPa at 50 C (11) for 41 k2P, or 100 kPa at 50 C (11) for 41 k2P, or 100 kPa at 50 C (11) for 41 k2P, or 100 kPa at 50 C (11) for 4	Hazard labels (DOT)	: 8 - Corrosive
DOT Special Provisions (49 CFR 172:102) : A1 - For combination packagings, if glass inner packaging must be packed with absorbert material in tighty closed metal receptacles before packing in outer packagings. A2 - For combination packagings. Not S02, MC 302, MC 302, MC 302, MC 303, MC 305, and MC 303 and DOT 406 cargo tanks are not authorized. B3 - Packagings must be packed with absorbert material in tighty closed metal receptacles before packing in outer packagings. B15 - Packagings must be packed with non-metallic linings impervious to the lading or have a suitable consist. B3 - Mathematical Mathmathematical Mathematical Mathematical Mathematical Mathematical M		8
must be packed with absorbert material in tightly closed metal receptacles before packing in outer packagings. A7 - Steel packagings must be corrosion - resistant or have protection against corrosion. B2 - MC 300, MC 301, MC 302, MC 303, MC 303, MC 306 and DC 406 cargo tanks are not authorized. B15 - Packagings must be protected with non-metallic linings impervious to the lading or have a suitable corrosion allowance. B12 - Authorized BCS: Metal (31, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H and 31H2);	Packing group (DOT)	: II - Medium Danger
DOT Packaging Exceptions (49 CFR 173.xxx) : 154 DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 242 DOT Quantity Limitations Passenger aircraft/rail : 1 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 30 L CFR 175.75) DOT Quantity Limitations Cargo aircraft only (49 : 30 L CFR 175.75) DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. Additional information Other information : No supplementary information available. ADR Transport document description : Transport by sea No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations Suffuric Acid, 5% v/v SARA Section 311/312 Hazard Classes Inmediate (acute) health hazard		 must be packed with absorbent material in tightly closed metal receptacles before packing in outer packagings. A7 - Steel packagings must be corrosion-resistant or have protection against corrosion. B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. B15 - Packagings must be protected with non-metallic linings impervious to the lading or have a suitable corrosion allowance. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. N6 - Battery fluid packaged with electric storage batteries, wet or dry, must conform to the packaging provisions of 173.159 (g) or (h) of this subchapter. N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T8 - 4 178.274(d)(2) Normal Prohibited TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
DOT Packaging Bulk (49 CFR 173.xxx) : 242 DOT Quantity Limitations Passenger aircraft/rail : 1 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 30 L CFR 175.75) DOT Vessel Stowage Location : B - (i) The material may be stowed 'on deck' or 'under deck' on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) 'On deck only' on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. Additional information Other information : No supplementary information available. ADR Transport by sea No additional information available Air transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations Suffuric Acid, 5% v/v SARA Section 311/312 Hazard Classes Immediate (acute) health hazard	DOT Packaging Exceptions (49 CFR 173.xxx)	
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DOT Quantity Limitations Passenger aircraft/rail : 1 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 30 L CFR 175.75) DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. Additional information Other information : No supplementary information available. ADR Transport document description : Transport by sea No additional information available Air transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations Sulfuric Acid, 5% v/v SARA Section 311/312 Hazard Classes Immediate (acute) health hazard		: 242
CFR 175.75) DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passenger, or one passenger per each 3 m of overall vessel length, and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. Additional information Other information available. Other information : No supplementary information available. ADR : No supplementary information available. Transport document description :		: 1L
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Transport document description Transport by sea No additional information available Air transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations Sulfuric Acid, 5% v/v SARA Section 311/312 Hazard Classes	Other information	: No supplementary information available.
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15.1. US Federal regulations Sulfuric Acid, 5% v/v SARA Section 311/312 Hazard Classes Immediate (acute) health hazard	No additional information available	
Sulfuric Acid, 5% v/v SARA Section 311/312 Hazard Classes Immediate (acute) health hazard	SECTION 15: Regulatory information	
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard	15.1. US Federal regulations	
	Sulfuric Acid, 5% v/v	
Sulfuric Acid, 96% w/w (7664-93-9)	SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
	Sulfuric Acid, 96% w/w (7664-93-9)	

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Sulfuric Acid, 96% w/w (7664-93-9)	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
15.2. International regulations	
CANADA	
Sulfuric Acid, 5% v/v	
WHMIS Classification	Class E - Corrosive Material

Sulfuric Acid, 96% w/w (7664-93-9)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class E - Corrosive Material	
Water (7732-18-5)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified 15.2.2. National regulations

No additional information available

15.3. US State regulations

SECTION 16: Other information	
Revision date	: 08/15/2014
Other information	: None.
Full text of H-phrases: see section 16:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
NFPA health hazard NFPA fire hazard	 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

Personal Protection

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

: H