

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/12/2014 Version: 1.0

Product form       :       Midure         Product name       :       Sulfure Acid. 0.1N (0.05M)         Product code       :       L225860         1.2       Relevant identified uses of the substance or mixture and uses advised against				
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Product name <ul> <li>Suffuric Acid, 0.1N (0.05M)</li> <li>Product code</li> <li>I. C28800</li> </ul> Iza       Relevant identified uses of the substance or mixture and uses advised against         Jace of the substance/mixture <ul> <li>For laboratory and manufacturing use only.</li> </ul> Iza       Relevant identified uses of the substance or mixture and uses advised against.         JackDemin in <ul> <li>For laboratory and manufacturing use only.</li> </ul> JackDemin in <ul> <li>Biologia PA Advance PA Building 1000, 1010 Jackson's Pointe Counterper Park Building 1</li></ul>	1.1. Product identifier			
Product code       i. LC25680         1.2. Relevant identified uses of the substance or mixture and uses advised against         Jase of the substance/mixture       i. For laboratory and manufacturing use only.         1.3. Details of the subplier of the safety data sheet	Product form	: Mixture		
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Jae of the substance/mixture       : For laboratory and manufacturing use only.         1.3.       Details of the supplier of the safety data shet         JacChem in: JacKhem No       Jackem No         Jackem No       Partice Commerce Park Building 1000, 1010 Jackson's Pointe Court Edinongie, PA A473,0647         JoidBachem.com - www.labchem.com       :         1.4.       Energency telephone number         Emergency rumber       :         SECTION 2: Hazards identification         2.1.       Classification of the substance or mixture         SHS-US fabeling         No classified         2.2.       Label elements         SHS-US fabeling         No classified         2.3.       Other hazards         SHS-US fabeling         No labeling applicable         2.3.       Other hazards         SECTION 3: Composition/information on ingredients         SL4.       Unknown acute toxicity (GHS-US)         Va available       Image: State	Product code	: LC25680		
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LabChem Inc JabChem Inc JabC	Use of the substance/mixture	: For laboratory and manufacturing us	e only.	
LabChem Inc LabChem Inc Lacksons Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court Zelienopie, PA 1608 - USA T4 2826 F230 - F 724-473-0647 nfo@labchem.com - www.labchem.com 14.4 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 mixture GHS-US classification Vot classified 2.2. Label elements GHS-US labelling Vo labelling applicable 2.3. Other hazards Dther hazards Dther hazards not contributing to the : None. Lassification Vot data available SECTION 3: Composition/information on ingredients 2.4. Unknown acute toxicity (GHS-US) No data available SECTION 3: Composition/information on ingredients 2.1. Substance Vot applicable 2.2. Mixture Mare Product identifier % CHS-US lassified 3.2. Mixture Mater (CAS No) 7732-18-5 99.51 Not classified Subtrance (CAS No)	1.3. Details of the supplier of the sa	fety data sheet		
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	First-aid measures after inhalation	· · · · · · · · · · · · · · · · · · ·	victim to rest.	
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse	First-aid measures after skin contact	: Remove affected clothing and wash		with mild soap and water, followed by

- : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness First-aid measures after eye contact persist. First-aid measures after ingestion
  - : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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4.2. Most important symp	ptoms and effects, both acute and delaye	d
Symptoms/injuries	: Not expected to preser	t a significant hazard under anticipated conditions of normal use.
4.3. Indication of any imm	mediate medical attention and special tre	atment needed
No additional information availal	ble	
<b>SECTION 5: Firefighting</b>	measures	
5.1. Extinguishing media		
Suitable extinguishing media		bon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy wa	
5.2. Special hazards aris	ing from the substance or mixture	
No additional information availab		
5.3. Advice for firefighter	·e	
Firefighting instructions		for cooling exposed containers. Exercise caution when fighting any
		ire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area v	vithout proper protective equipment, including respiratory protection.
SECTION 6: Accidental	release measures	
	s, protective equipment and emergency	procedures
		si occurios
6.1.1. For non-emergency		
Protective equipment	: Safety glasses. Gloves	
Emergency procedures	: Evacuate unnecessary	personnei.
6.1.2. For emergency resp	onders	
Protective equipment	: Equip cleanup crew wit	h proper protection.
Emergency procedures	: Ventilate area.	
6.2. Environmental preca	autions	
Prevent entry to sewers and put	blic waters. Notify authorities if liquid enters	sewers or public waters.
6.3. Methods and materia	al for containment and cleaning up	
Methods for cleaning up	: Soak up spills with iner spillage. Store away fro	t solids, such as clay or diatomaceous earth as soon as possible. Collect om other materials.
6.4. Reference to other s	ections	
See Heading 8. Exposure control	ols and personal protection.	
<b>SECTION 7: Handling ar</b>	nd storage	
7.1. Precautions for safe		
Precautions for safe handling		exposed areas with mild soap and water before eating, drinking or ving work. Provide good ventilation in process area to prevent formation of
7.2. Conditions for safe s	storage, including any incompatibilities	
Storage conditions	: Keep container closed	when not in use.
Incompatible products	: metals. cyanides. Stror	g bases.
Incompatible materials	: Heat sources. Sources	of ignition. Direct sunlight.
7.3. Specific end use(s)		
No additional information availal	ble	
SECTION 8: Exposure c	ontrols/personal protection	
8.1. Control parameters		
Sulfuric Acid, 96% w/w (7664	-	
USA ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>

8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

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Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Colour	: Colourless.
Odour	: None.
Odour threshold	: No data available
pH	: 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
Self 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 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 1.01 cSt
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: None.
Explosive limits	: No data available
9.2 Other information	

9.2. **Other information** No additional information available

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
No additi	onal information available
10.2.	Chemical stability
Stable ur	nder normal conditions.
10.3.	Possibility of hazardous reactions
Not estal	blished.
10.4.	Conditions to avoid
Direct su	nlight. Extremely high or low temperatures.
10.5.	Incompatible materials
metals. c	yanides. Strong bases.
10.6.	Hazardous decomposition products
Sulfur co	mpounds.

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## **SECTION 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,Rat; Experimental value)
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
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 xposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and ymptoms	: Based on available data, the classification criteria are not met.
ikely routes of exposure	: Skin and eye contact

## **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

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Water (7732-18-5)	
Bioaccumulative potential	Not established.
2.4. Mobility in soil	
lo additional information available	
2.5. Other adverse effects	
	: Avoid release to the environment.
SECTION 13: Disposal considerations	
3.1. Waste treatment methods	
Vaste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
n accordance with DOT	
lo dangerous good in sense of transport regulatio	ins
Additional information	
Other information	: No supplementary information available.
ADR	
ransport document description	
ransport by sea	
lo additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	
5.1. US Federal regulations	
_	
Sulfuric Acid, 96% w/w (7664-93-9) Listed on the United States TSCA (Toxic Substan	near Control Act) inventory
RQ (Reportable quantity, section 304 of EPA's	1000 lb
List of Lists) :	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory
5.2. International regulations	
CANADA	
Sulfuric Acid, 0.1N (0.05M)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Sulfuric Acid, 96% w/w (7664-93-9) Listed on the Canadian DSL (Domestic Sustance	pe List) inventory
WHMIS Classification	Class E - Corrosive Material
Water (7732-18-5) Listed on the Canadian DSL (Domestic Sustance	pe Liet) inventory
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

## **EU-Regulations**

No additional information available

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

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

#### Not classified

### 15.2.2. National regulations

Sulfuric Acid, 96% w/w (7664-93-9)
Listed on the Canadian Ingredient Disclosure List
Water (7732-18-5)
Not listed on the Canadian Ingredient Disclosure List

## 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

Other information

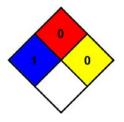
: None.

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 fire hazard NFPA reactivity

- : 1 Exposure could cause irritation but only minor residual injury even if no treatment is given.
- : 0 Materials that will not burn.
  - : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating
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Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: B

SDS US (GHS HazCom 2012)

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