EXAXOL CH	IEMICAL CORPORATION	Revision nr. 2
		Dated 2/9/2022
A0055 - Ami	ne-Sulfuric Acid Reagent	Printed on 2/9/2022
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	Safety Data Sheet	
	According to U.S.A. Federal Hazcom 2012	
I. Identification		
1.1. Product identifier		
Code:	A0055	
Product name	Amine-Sulfuric Acid Reagent	
I.2. Relevant identified uses of the substan ntended use For Laborator		
<b>I.3. Details of the supplier of the safety dat</b> Name <sup>F</sup> ull address District and Country	a sheet EXAXOL CHEMICAL CORPORATION 14325 60 TH ST N 33760 CLEARWATER - FLORIDA US	
	Tel. 1-727-524-7732	
	Fax 1-727-532-8221	
e-mail address		
	info@exaxol.com	
1.4. Emergency telephone number For urgent inquiries refer to	1-800-255-3924 ChemTel Inc.	
2. Hazards identification		
I. Classification of the substance or mixtur	e	
ne product is classified as hazardous pursuan oduct thus requires a safety datasheet.	t to the provisions set forth in OSHA Hazard Communica	ation Standard (HCS) (29 CFR 1910.1200). T

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement

Hazard pictograms: Skin corrosion, category 1

Serious eye damage, category 1



Causes severe skin burns and eye damage. Causes serious eye damage.

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Signal words:	Danger		
Hazard statements:			
H314	Causes severe skin burns	and eye damage.	
Precautionary statements:			
Prevention: P260 P280 P264		e / gas / mist / vapours / spray. otective clothing / eye protection / face protection. r handling.	
Response: P305+P351+P338 P301+P330+P331 P303+P361+P353	rinsing. IF SWALLOWED: Rinse m	sly with water for several minutes. Remove conta nouth. Do NOT induce vomiting. e off immediately all contaminated clothing. Rinse	
P310 P304+P340 P363	Immediately call a POISON IF INHALED: remove perso	N CENTER / doctor. on to fresh air and keep comfortable for breathing	
Storage: <b>P405</b>	Wash contaminated clothir Store locked up.	ig beiole leuse.	
Disposal: <b>P501</b>	Dispose of contents / conta	ainer to an approved waste disposal plant.	
2.2. Other hazards			
Information not available 3. Composition/ir	nformation on ingre	dients	
3.2. Mixtures			
Contains:			
Identification WATER	Conc. %	Classification:	
CAS 7732-18-5 EC 231-791-2 INDEX -	54.36		
Sulfuric Acid ACS CAS 7664-93-9	45	Substance or mixture corrective to motels	atagany 1 H200 Skin carragian
EC 231-639-5	45	Substance or mixture corrosive to metals, c category 1A H314, Serious eye damage, ca	
INDEX 016-020-00-8			

## 4. First-aid measures

### 4.1. Description of first aid measures

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EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

### 5. Fire-fighting measures

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

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Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory References:

USA	NIOSH-REL	NIOSH publication No. 2005-149, 3th printing, 2007.
USA	OSHA-PEL	Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000.
USA	CAL/OSHA-PEL	California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs).

Sulfuric Acid ACS

Threshold Limit Va	lue					
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OSHA	USA	1				
CAL/OSHA	USA	0.1		3		
NIOSH	USA	1				
_egend:						
	IAI Inholohia Fracti		Dooniroble Fre	ation thopa		
C = CEILING ; INF	HAL = Inhalable Fraction	011 , RESP =	Respirable Fra	cuon ; THORA:		

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

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#### HAND PROTECTION

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

#### 9.2. Other information

Information not available

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### 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

### **11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

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### ACUTE TOXICITY

Does not meet the classification criteria for this hazard class

#### SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

### 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### 12.1. Toxicity

Information not available

#### 12.2. Persistence and degradability

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Information not available

#### 12.3. Bioaccumulative potential

Information not available

#### 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

### 13. Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### 14. Transport information

#### 14.1. UN number

ADR / RID, IMDG, 1830 IATA:

#### 14.2. UN proper shipping name

ADR / RID:	SULPHURIC ACID SOLUTION
IMDG:	SULPHURIC ACID SOLUTION
IATA:	SULPHURIC ACID SOLUTION

#### 14.3. Transport hazard class(es)

ADR / RID:	Class: 8	Label: 8
IMDG:	Class: 8	Label: 8
ΙΑΤΑ:	Class: 8	Label: 8



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#### 14.4. Packing group

ADR / RID, IMDG, II IATA:

#### 14.5. Environmental hazards

ADR / RID:	NO		
IMDG:	NO		
IATA:	NO		
14.6. Special precaution	ons for user		
ADR / RID:		HIN - Kemler: 80	Limited Quantities:

Tunnel Quantities: 1 L restriction code: (E) Special Provision: -IMDG: EMS: F-A, S-B Limited Quantities: 1 IATA: Cargo: Maximum Packaging instructions: quantity: 30 L 855 Pass.: Maximum Packaging instructions: quantity: 1 L 851 **Special Instructions:** 

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### 15. Regulatory information

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

U.S. Federal Regulations

TSCA:

All components are listed on TSCA Inventory.

Clean Air Act Section 112(b):

No component(s) listed.

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

Clean Air Act Section 602 Class II Substances:

No component(s) listed.

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<u>Clean Water Act –</u> Priority Pollutants:

No component(s) listed.

<u>Clean Water Act –</u> Toxic Pollutants:

No component(s) listed.

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

No component(s) listed.

EPA List of Lists:

313 Category Code:

7664-93-9 EPCRA 302 EHS TPQ:

7664-93-9 EPCRA 304 EHS RQ:

7664-93-9 CERCLA RQ:

7664-93-9 EPCRA 313 TRI:

7664-93-9 RCRA Code:

No component(s) listed.

CAA 112 (r) RMP TQ:

No component(s) listed.

State Regulations

Massachussetts:

7664-93-9

Sulfuric Acid ACS

Minnesota:

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7664-93-9	Sulfuric Acid ACS	
<u>New Jersey:</u>		
7664-93-9	Sulfuric Acid ACS	
New York:		
7664-93-9	Sulfuric Acid ACS	
Pennsylvania:		
7664-93-9 California:	Sulfuric Acid ACS	
7664-93-9	Sulfuric Acid ACS	
Proposition 65:	Sulfunc Acid ACS	
International Regulations		
Substances subject to expo	ortation reporting pursuant to (EC) Reg. 649/2012:	
None		
Substances subject to the	Kotterdam Convention:	
None		
Substances subject to the	Stockholm Convention:	
None		
Candadian WHMIS		
Information not available		
16. Other informa	tion	
Text of hazard (H) indicatio	ns mentioned in section 2-3 of the sheet:	
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
<ul> <li>ADR: European Agreeme</li> <li>CAA 112 ® RMP TQ: Ris</li> <li>CAS NUMBER: Chemical</li> <li>CE50: Effective concentra</li> <li>CERCLA RQ: Reportable</li> <li>CLP: EC Regulation 1272</li> <li>DEA: Drug Enforcement <i>I</i></li> <li>EmS: Emergency Schedu</li> <li>EPA: US Environmental F</li> <li>EPCRA: Emergency Plan</li> </ul>	Administration le	Code)

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<ul> <li>EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)</li> <li>EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)</li> </ul>	
- GHS: Globally Harmonized System of classification and labeling of chemicals - IATA DGR: International Air Transport Association Dangerous Goods Regulation	
<ul> <li>IC50: Immobilization Concentration 50%</li> <li>IMDG: International Maritime Code for dangerous goods</li> <li>IMO: International Maritime Organization</li> </ul>	
- LC50: Lethal Concentration 50% - LD50: Lethal dose 50%	
- OEL: Occupational Exposure Level - PEL: Predicted exposure level DCDA Code: Deseures Concernation and Deseures Act Code	
<ul> <li>RCRA Code: Resource Conservation and Recovery Act Code</li> <li>REL: Recommended exposure limit</li> <li>RID: Regulation concerning the international transport of dangerous goods by train</li> </ul>	
- TLV: Threshold Limit Value - TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.	
<ul> <li>TSCA: Toxic Substances Control Act</li> <li>TWA STEL: Short-term exposure limit</li> <li>TWA: Time-weighted average exposure limit</li> </ul>	
<ul> <li>VOC: Volatile organic Compounds</li> <li>WHMIS: Workplace Hazardous Materials Information System.</li> </ul>	
GENERAL BIBLIOGRAPHY: - GHS rev. 3 - The Merck Index. 10th Edition	
- Handling Chemical Safety - Niosh - Registry of Toxic Effects of Chemical Substances	
- INRS - Fiche Toxicologique (toxicological sheet) - Patty - Industrial Hygiene and Toxicology	
<ul> <li>N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition</li> <li>ECHA website</li> <li>Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy</li> </ul>	
- 6 NYCRR part 597 - Cal/OSHA website	
<ul> <li>California Safe Drinking Water and Toxic Enforcement Act</li> <li>EPA website</li> <li>Hazard Comunication Standard (HCS 2012)</li> </ul>	
<ul> <li>- IARC website</li> <li>- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air A</li> </ul>	ct
<ul> <li>Massachussetts 105 CMR Department of public health 670.000: "Right to Know"</li> <li>Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".</li> </ul>	
<ul> <li>New Jersey Worker and Community Right to know Act N.J.S.A.</li> <li>NTP. 2011. Report on Carcinogens, 12th Edition.</li> <li>OSHA website</li> </ul>	
- Pennsylvania, Hazardous Substance List, Chapter 323 Note for users:	
The information contained in the present sheet are based on our own knowledge on the date of the last version. I thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property.	Users must verify the suitability and
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comp laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.	bly with the current health and safety
Changes to previous review: The following sections were modified:	
03 / 10 / 14.	