

# SAFETY DATA SHEET

#### 1. Identification

Product identifier	SULFURIC ACID, SOLUTION	I, 18 N
Other means of identification		
Product code	1977	
Recommended use	etchant and acids technical function of substance professional, scientific and technical activities: other professional, scientific and technical activities	
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Suppl	ier/Distributor information	
Manufacturer		
Company name	GFS Chemicals, Inc.	
Address	P.O. Box 245	
	Powell, OH 43065	
	United States	
Telephone	Phone	740-881-5501
	Toll Free	800-858-9682
	Fax	740-881-5989
Website	www.gfschemicals.com	
E-mail	service@gfschemicals.com	
Emergency phone	Emergency Assistance	Chemtrec 800-424-9300

# 2. Hazard(s) identification

number

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		



Signal	word	Danger
Hazard	statement	Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precau	tionary statement	
Pre	evention	Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Re	sponse	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 CENTER or doctor/physician. Wash contaminated clothing before reuse.
Sto	orage	Store locked up.
Dis	sposal	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) classified (	not otherwise HNOC)	None known.
Supplemen	ital information	None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
SULFURIC ACID		7664-93-9	60
WATER		7732-18-5	40

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove material from skin immediately. Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center 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 center immediately.
Ingestion	Call a physician or poison control center 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	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. Irritation of nose and throat.
Indication of immediate medical attention and special treatment needed	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 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.

#### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Water spray, fog (flooding amounts). Powder. Foam. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do it without risk. Do not get water inside containers.
Specific methods General fire hazards	Use standard firefighting procedures and consider the hazards of other involved materials. 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. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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.
Methods and materials for containment and cleaning up	This product is miscible in water. Should not be released into the environment. Prevent entry into waterways, sewers, basements or confined areas.
	Large Spills: Prevent entry into waterways, sewer, basements or confined areas. Dike the spilled material, where this is possible. Dilute with plenty of water. Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime. Clean contaminated surface thoroughly. Neutralize the spilled material before disposal. Clean up in accordance with all applicable regulations. 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.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

# 7. Handling and storage

Precautions for safe handling	Do not allow water to get into container because of a violent reaction. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Keep the container dry. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

Components	Туре	Value	
SULFURIC ACID (CAS 7664-93-9)	PEL	1 mg/m3	
US. ACGIH Threshold Lin	it Values		
Components	Туре	Value	Form
SULFURIC ACID (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
SULFURIC ACID (CAS 7664-93-9)	TWA	1 mg/m3	
ological limit values	No biological exposure limits noted for t	he ingredient(s).	
-	be matched to conditions. If applicable, engineering controls to maintain airborn limits have not been established, maintain and emergency shower must be available es, such as personal protective equipation Warm applicable protective equipation	e levels below recommende ain airborne levels to an acc le when handling this produ <b>nent</b>	ed exposure limits. If exposure eptable level. Eye wash facilities Ict.
Eye/face protection	Wear safety glasses with side shields (c	r goggles) and a face shield	l.
Skin protection Hand protection	Wear appropriate chemical resistant glo	ves.	
Other	Wear appropriate chemical resistant clo	thing.	
<b>Respiratory protection</b>	In case of insufficient ventilation, wear	suitable respiratory equipme	ent.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
eneral hygiene onsiderations	Always observe good personal hygiene measures, such as washing after handling the material an before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment remove contaminants.		
. Physical and chemica	I properties		
opearance	Clear. Viscous.		
Physical state	Liquid.		
Form	Liquid.		
Color	Colorless		

FORM	Liquiu.
Color	Colorless.
Odor	Odorless.
Odor threshold	Not available.
рН	< 0
Melting point/freezing point	-83.2 °F (-64 °C) estimated
Initial boiling point and boiling range	554 °F (290 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.

# Upper/lower flammability or explosive limits

Flammability limit - lower Not available. (%)

Flammability limit -	Not available.
upper (%)	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.00005 hPa estimated
Vapor density	3.4
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Miscible, generates heat
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.52 g/cm3
Molecular formula	H2SO4
Molecular weight	98.09
Specific gravity	1.52

### 10. Stability and reactivity

Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Exposure to moisture. Contact with incompatible materials.
Incompatible materials	Bases. Reducing agents. Contact with metals may evolve flammable hydrogen gas.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

May cause irritation to the respiratory system. Prolonged inhalation may be harmful
Causes severe skin burns.
Causes serious eye damage.
Causes digestive tract burns.
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. Irritation of nose and throat.

#### Information on toxicological effects

#### Acute toxicity

Product	Species		Test Results	
SULFURIC ACID (CAS M	1ixture)			
Acute				
Inhalation				
LC50	Guinea pig		0.04 mg/l	
			0.03 mg/l, 8 Hours estimated	
	Rat		578.3333 mg/l, 1 Hours estima	ted
			347 mg/l	
Components	Species		Test Results	
SULFURIC ACID (CAS 7	664-93-9)			
Acute				
Inhalation				
LC50	Guinea pig		0.03 mg/l, 8 Hours	
Material name: SULFURIC	CACID, SOLUTION, 18 N			
1977	Version #: 01	Revision date:	Issue date: April-13-2015	4 / 8

Components	Species	Test Results		
		0.018 mg/l, 8 Hours		
	Rat	347 mg/l, 1 Hours		
* Estimates for product ma	y be based on additional component da	ata not shown.		
Skin corrosion/irritation	Causes severe skin burns and eye	damage.		
Serious eye damage/eye irritation	Causes serious eye damage.			
Respiratory or skin sensitiza	tion			
Respiratory sensitization	n Not available.			
Skin sensitization	This product is not expected to ca	use skin sensitization.		
Germ cell mutagenicity	No data available to indicate produ mutagenic or genotoxic.	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to b	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
Reproductive toxicity	This product is not expected to ca	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicit - single exposure	Not classified.			
Specific target organ toxicit - repeated exposure	Not classified.			
Aspiration hazard	Not available.			
Chronic effects	Prolonged inhalation may be harm	ful.		
12. Ecological informat	ion			
Ecotovicity	Harmful to aquatic life with long la	sting offects. Because of the low pH of this product, it would be		

Ecotoxicity

Harmful to aquatic life with long lasting effects. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Product		Species	Test Results
SULFURIC ACID (CAS	Mixture)		
Aquatic			
Fish	LC50	Fish	70 mg/l, 96 hours estimated
Components		Species	Test Results
SULFURIC ACID (CAS	7664-93-9)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambus	sia affinis) 42 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Solutions with low pH-value must be neutralized before discharge.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste 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). Taking into account local regulations the product may be disposed of as waste water after neutralisation.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

# 14. Transport information

DOT

DOT	
UN number	UN1830
UN proper shipping name	Sulfuric acid with more than 51 percent acid
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	II
Special precautions for	Read safety instructions, SDS and emergency procedures before handling.
user	Read safety instructions, 505 and emergency procedures before handling.
Special provisions	A3, A7, B3, B83, B84, IB2, N34, T8, TP2, TP12
Packaging exceptions	154
Packaging non bulk	202
Packaging bulk	242
IATA	272
UN number	UN1830
UN proper shipping name	Sulphuric acid with more than 51% acid
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	8L
Special precautions for	Read safety instructions, SDS and emergency procedures before handling.
user	
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1830
UN proper shipping name	SULPHURIC ACID with more than 51% acid
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
Special precautions for	Read safety instructions, SDS and emergency procedures before handling.
user	Read Survey instructions, 555 and emergency procedures before humaning.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78	
and the IBC Code	
DOT	





### 15. Regulatory information

UC federal very						
US federal regul	ations	29 CFR 191	0.1200.	s Chemical" as defined J.S. EPA TSCA Inventor		Communication Standard,
TSCA Sectio	n 12(b) Export	t Notification	n (40 CFR 707,	Subpt. D)		
Not regul	• • •			. ,		
SULFURI	C ACID (CAS 76	64-93-9)		Listed.		
	mergency rele		ion			
SULFURI	CACID (CAS 76	64-93-9)		1000 LBS		
Superfund Amer	ndments and R	Reauthorizat	ion Act of 1986	5 (SARA)		
	Superfund Amendments and Reauthorization Act of 198   Hazard categories Immediate Hazard - Yes   Delayed Hazard - No Fire Hazard - No   Pressure Hazard - No Reactivity Hazard - No		Hazard - Yes zard - No - No zard - No			
<b>SARA 302 E</b>	xtremely haza	rdous substa	ance			
Chemical na	me CA	S number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
SULFURIC AC	ID 766	54-93-9	1000	1000 lbs		
SARA 311/3 Hazardous c		No				
SARA 313 (1	RI reporting)					
Chemica				CAS number	% by wt.	
SULFURI	C ACID			7664-93-9	60	
Other federal re	gulations					
	-	n 112 Hazar	dous Air Pollut	ants (HAPs) List		
Not regul	. ,					
nocicgu	ated					
Clean Air Ac		n 112(r) Acc	idental Releas	e Prevention (40 CF	R 68.130)	
	t (CAA) Sectio	n 112(r) Acc	idental Releas	e Prevention (40 CF	R 68.130)	
Not regul	t (CAA) Sectio ated.			e Prevention (40 CF	R 68.130)	
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#### US. New Jersey Worker and Community Right-to-Know Act SULFURIC ACID (CAS 7664-93-9)

#### US. Pennsylvania Worker and Community Right-to-Know Law SULFURIC ACID (CAS 7664-93-9)

US. Rhode Island RTK

SULFURIC ACID (CAS 7664-93-9)

#### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*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).

## 16. Other information, including date of preparation or last revision

Issue date	April-13-2015
Version #	01
Disclaimer	GFS Chemicals cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision Information	Product and Company Identification: Product Codes Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Transport Information: Proper Shipping Name/Packing Group