# **SAFETY DATA SHEET**



1. Identification

Product identifier ARISTONIC® ACID 9800

Other means of identification

Product Code 538010

Recommended use Industrial Intermediate

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company namePilot Chemical CompanyAddress2744 East Kemper RoadSharonville, OH 45241

**United States** 

**Telephone** (513) 326-0600 (8 AM to 5 PM Eastern)

1-800-707-4568

E-mail sdsinfo@pilotchemical.com

Emergency phone number CHEMTREC International: 1-703-527-3887

CHEMTREC USA: 1-800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** Toxic to aquatic life.

**Precautionary statement** 

Prevention Avoid release to the environment.

Response Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

### 3. Composition/information on ingredients

# **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Benzenesulfonic Acid,		93820-54-3	90 - 100
Di-C10-18-alkyl Derivs.			

# **Byproducts**

Chemical name	Common name and synonyms	CAS number	%
Sulfuric Acid Impurities		7664-93-9	0 - < 2.5
Chemical name	Common name and synonyms	CAS number	%
Sulphur Dioxide		7446-09-5	0< 0.25

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

**Composition comments** 

Occupational Exposure Limits for impurities are listed in Section 8. Additional compounds which

may be formed during processing are listed in Section 8.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Rinse mouth. Get medical attention if symptoms occur. Ingestion Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

Indication of immediate Treat symptomatically.

medical attention and special treatment needed

**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

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

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. Wear appropriate protective equipment and clothing during clean-up. 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 Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. **Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all

environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling

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 in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
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Byproducts	Type	Value	
Sulfuric Acid (CAS 7664-93-9)	PEL	1 mg/m3	
Impurities	Туре	Value	
Sulphur Dioxide (CAS 7446-09-5)	PEL	13 mg/m3	
,		5 ppm	
<b>US. ACGIH Threshold Limit Values</b>			
Byproducts	Type	Value	Form

Byproducts	Туре	Value	Form
Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.
Împurities	Туре	Value	
Sulphur Dioxide	STEL	0.25 ppm	

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Byproducts	Туре	Value	
Sulfuric Acid (CAS 7664-93-9)	TWA	1 mg/m3	
Impurities	Туре	Value	
Sulphur Dioxide (CAS 7446-09-5)	STEL	13 mg/m3	
		5 ppm	
	TWA	5 mg/m3	
		2 ppm	

**Biological limit values**No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

### 9. Physical and chemical properties

Appearance Viscous.

Physical state Liquid.

Form Liquid.

Color Brown.

Odor Sulphurous.

Odor threshold Not available.

**oH** 2 - 3

Melting point/freezing point Not available.

Initial boiling point and boiling 212 °F (100 °C) (decomposes)

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range

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Flash point Cleveland Open Cup, None to decomposition

Not available. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Not available. Vapor pressure Not available. Vapor density Not available. Relative density

Solubility(ies)

Dispersable; may gel Solubility (water)

**Partition coefficient** 

(n-octanol/water)

Not available.

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

**Explosive properties** Not explosive. Oxidizing properties Not oxidizing.

0.96 Specific gravity

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

# **Acute toxicity**

Components	Species	Test Results	
Benzenesulfonic Acid, [	Di-C10-18-alkyl Derivs. (CAS 93820-54-3)		
Acute			

**Dermal** 

LD50 Rabbit > 5000 mg/kg

Inhalation

LC50 Rat

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> 1.9 mg/l, 4 h

 Components
 Species
 Test Results

 Oral
 LD50
 Rat
 > 5000 mg/kg

 Byproducts
 Species
 Test Results

Sulfuric Acid (CAS 7664-93-9)

Acute Inhalation

LC50 Rat 375 mg/m3, 4 h

Oral

LD50 Rat 2140 mg/kg
Impurities Species Test Results

Sulphur Dioxide (CAS 7446-09-5)

Acute Inhalation

LC50 Hamster 50 ppm, 4 h

Rat 1260 ppm, 4 Hours

**Skin corrosion/irritation**Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye**Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity IARC has concluded that "occupational exposure to strong inorganic mists containing sulfuric acid

is carcinogenic for humans (Group 1)".

IARC Monographs. Overall Evaluation of Carcinogenicity

Sulfuric Acid (CAS 7664-93-9) 1 Carcinogenic to humans.

Sulphur Dioxide (CAS 7446-09-5)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Sulfuric Acid (CAS 7664-93-9)

Known To Be Human Carcinogen.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

12. Ecological information

**Ecotoxicity** Toxic to aquatic life.

Components Species Test Results

Benzenesulfonic Acid, Di-C10-18-alkyl Derivs. (CAS 93820-54-3)

Aquatic

Acute

Algae EC50 Algae > 1000 mg/l, 96 h

 Algae
 EC50
 Algae
 > 1000 mg/l, 96 h

 Crustacea
 EC50
 Daphnia
 > 1000 mg/l, 48 h

 Fish
 LC50
 Sheepshead minnow (Cyprinodon
 1.2 mg/l, 96 h

variegatus)

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Byproducts Species Test Results

Sulfuric Acid (CAS 7664-93-9)

Aquatio
---------

Acute

Algae EC50 Algae > 100 mg/l, 72 h Crustacea EC50 Daphnia > 100 mg/l, 48 h Fish LC50 Bluegill (Lepomis macrochirus) 16 - 28 mg/l, 96 h

Chronic

 Crustacea
 NOEC
 Daphnia
 0.15 mg/l, 35 d

 Fish
 NOEC
 Fish
 0.025 mg/l, 65 d

# Persistence and degradability

Bioaccumulative potential

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.

**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).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

Annex II of MARPOL 73/78 and the IBC Code

# 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Sulfuric Acid (CAS 7664-93-9) Listed.

SARA 304 Emergency release notification

 Sulfuric Acid (CAS 7664-93-9)
 1000 LBS

 Sulphur Dioxide (CAS 7446-09-5)
 500 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Sulfuric Acid	7664-93-9	1000	1000		
Sulphur Dioxide	7446-09-5	500	500		

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Sulfuric Acid	7664-93-9	0 - < 2.5	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Sulfuric Acid (CAS 7664-93-9) Sulphur Dioxide (CAS 7446-09-5)

Safe Drinking Water Act

Not regulated.

(SDWA)

# Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Sulfuric Acid (CAS 7664-93-9) 6552

# Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Sulfuric Acid (CAS 7664-93-9) 20 %WV

**DEA Exempt Chemical Mixtures Code Number** 

Sulfuric Acid (CAS 7664-93-9) 6552

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Sulphur Dioxide (CAS 7446-09-5) High priority

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>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** 09-02-2014 **Revision date** 02-08-2018

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NFPA ratings

HMIS® ratings Health: 0

Flammability: 0 Physical hazard: 0

Health: 0

Flammability: 0 Instability: 0

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This document has undergone significant changes and should be reviewed in its entirety. **Revision information** 

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