



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

Issue date: 03/21/2017 Revision date: 02/09/2022 Version: 2.0

**SECTION 1: Identification** 

1.1. Identification

Product form : Mixture

Product name : ASSIST™

Product dilution information :

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Processing aid

1.3. Supplier

Manufactured by: Brainerd Chemical Distributed by: Safe Foods Corporation

1200 N Peoria Ave 1501 E. 8th Street,

Tulsa, OK 74106 North Little Rock, AR 72114

918-622-1214 501-758-8500

1.4. Emergency telephone number

Emergency number :CHEMTREC: 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification Product as sold

Skin Corr 1A H314

Product at use dilution (50:1) : Not classified. Not a hazardous substance or mixture.

2.2. GHS Label elements, including precautionary statements

GHS US labelling Product as sold

Hazard pictograms (GHS US)

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, spray, vapors.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective clothing

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower

P304+P340 - IF INHALED: Remove person to fresh air and keep 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 P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to licensed waste handling facility.

Product at use dilution (50:1) : No labeling applicable.

2.3. Other hazards which do not result in classification

Other hazards which do not result in : None under normal conditions

classification

2.4. Unknown acute toxicity (GHS US)

Not applicable

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# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

# 3.2. Mixtures

#### Product as sold

Name	Product Identifier	%
Sulfuric acid	(CAS No.) 7664-93-9	37.0 - 43.0
Sodium sulfate anhydrous	(CAS No.) 7757-82-6	0.0 - 7.0
Water	(CAS No.) 7732-18-5	47.0 - 60.0

Product at use dilution (50:1) : Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

# **SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

#### Product as sold

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the

doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an

unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial

respiration.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at

least 15 minutes. If irritation develops or persists, get medical attention immediately.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact

lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison

control center or medical professional. Get medical attention immediately.

# Product at use dilution (50:1)

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 : IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at

least 15 minutes. If irritation persists, call a physician.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Obtain medical

attention if pain, blinking or redness persists.

First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

# 4.2. Most important symptoms and effects (acute and delayed)

## Product as sold

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : Corrosive to the respiratory tract.

Symptoms/effects after skin contact : Causes severe skin burns.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

## Product at use dilution (50:1)

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : Direct contact with eyes is likely to be irritating

Symptoms/effects after ingestion : May cause gastrointestinal irritation.

## 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

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# **SECTION 5: Fire-fighting measures**

## Product as sold

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : The product is not flammable. Explosion hazard : Product is not explosive.

Reactivity : No dangerous reactions known under normal conditions of use.

# 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

#### Product as sold

# 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained cleaning

personnel properly equipped with respiratory and eye protection.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

## 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams

Methods for cleaning up : Dilute with plenty of water. Cover with soda ash or sodium bicarbonate to neutralize. Wash

away residue. This material and its container must be disposed of in a safe way, and as per

local legislation.

#### 6.4. Reference to other sections

No additional information available

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Product as sold

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. 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 vapor. Do not

breathe mists. Keep away from sources of ignition - No smoking.

Product at use dilution (50:1) : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources.

Keep container closed when not in use.

## **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# Product as sold

Sulfuric acid (7664-93-9)		
ACGIH	ACGIH OEL TWA	0.2 mg/m³ thoracic fraction

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Sulfuric acid (7664-93-9)		
OSHA	OSHA PEL TWA [1]	1 mg/m³

## 8.2. Appropriate engineering controls

#### Product as sold

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

#### Product at use dilution (50:1)

Appropriate engineering controls

: Ensure adequate ventilation, especially in confined areas.

#### 8.3. Individual protection measures/Personal protective equipment

#### Product as sold

#### Personal protective equipment symbol(s):









#### Personal protective equipment:

Gloves. Wear chemical goggles and face shield in combination. Wear chemically impervious apron over labcoat and full coverage clothing. Mist formation: aerosol mask.

## Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Be aware that the chemical may penetrate the gloves. Frequent changes are advisable. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

## Eye protection:

Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles

#### Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

#### Respiratory protection:

Use NIOSH (or other equivalent national standard) -approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

#### Product at use dilution (50:1)

#### Personal protective equipment symbol(s):





#### Personal protective equipment:

Gloves. Protective goggles.

## Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

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## Eye protection:

Use eye protection suitable to the environment. Avoid direct contact with eyes.

## Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

#### Respiratory protection:

Use NIOSH (or other equivalent national standard) -approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

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

#### Product as sold

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

Physical state : Liquid Color : Clear Odor Odorless

: No data available Odor threshold

рН : < 1

Melting point : No data available Freezing point : -25 °C (-13 °F) Boiling point : 126 °C (258.8 °F) Flash point : No data available Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available : 1.49 @ 25 °C (77 °F) Relative density Solubility : Soluble in water Partition coefficient n-octanol/water (Log Pow) : No data available : No data available Auto-ignition temperature : No data available Decomposition temperature Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive limits : No data available

#### Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### Product as sold

#### 10.1. Reactivity

Explosive properties Oxidising properties

No dangerous reactions known under normal conditions of use.

## Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

Extremely high or low temperatures.

## Incompatible materials

Water. Organic materials. Strong bases. Reducing agents. Acetaldehyde. Amines.

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: No data available

: No data available



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# 10.6. Hazardous decomposition products

Upon heating, sulfuric acid vapors may be released. Thermal decomposition generates sulfur oxides.

# **SECTION 11: Toxicological information**

## Product as sold

# 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Sulfuric acid (7664-93-9)	
LD50 oral rat	2140 mg/kg
LC50 Inhalation - Rat	510 mg/m³ 2h

Skin corrosion/irritation : Causes severe skin burns.

pH: < 1

Serious eye damage/irritation : Causes serious eye damage.

pH: < 1

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified : Not classified Carcinogenicity Reproductive toxicity : Not classified Not classified STOT-single exposure STOT-repeated exposure : Not classified : Not classified Aspiration hazard Viscosity, kinematic : No data available

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : Corrosive to the respiratory tract.

Symptoms/effects after skin contact : Causes severe skin burns.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

#### Product at use dilution (50:1)

: Not classified Acute toxicity (oral) Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) Not classified Skin corrosion/irritation : Not classified : Not classified Serious eye damage/irritation Respiratory or skin sensitisation Not classified Germ cell mutagenicity : Not classified : Not classified Carcinogenicity : Not classified Reproductive toxicity STOT-single exposure : Not classified STOT-repeated exposure Not classified : Not classified Aspiration hazard Viscosity, kinematic : No data available

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : Direct contact with eyes is likely to be irritating

Symptoms/effects after ingestion : May cause gastrointestinal irritation.

# **SECTION 12: Ecological information**

# Product as sold

# 12.1. Toxicity

No additional information available

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## 12.2. Persistence and degradability

Sulfuric acid (7664-93-9)	
Persistence and degradability	Not established.

## 12.3. Bioaccumulative potential

Sulfuric acid (7664-93-9)	
Bioaccumulative potential	Not established.

# 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

#### Product as sold

#### 13.1. Disposal methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities.

No discharge to surface waters is allowed without an NPDES permit.

Product/Packaging disposal recommendations : Do not allow the product to be released into the environment. Dispose in a safe manner in

accordance with local/national regulations.

# **SECTION 14: Transport information**

#### Product as sold

## **Department of Transportation (DOT)**

In accordance with DOT

Transport document description (DOT) : UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (contains Sulfuric acid), 8, II

UN-No.(DOT) : UN3264

Proper Shipping Name (DOT) : Corrosive liquid, acidic, inorganic, n.o.s. (contains Sulfuric acid)

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : II - Medium Danger Hazard labels (DOT) : 8 - Corrosive



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.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

Other information : No supplementary information available.

Transport by sea (IMDG)

Transport document description (IMDG) : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, II

UN-No. (IMDG) : 3264

Proper Shipping Name (IMDG) : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : II - substances presenting medium danger

Limited quantities (IMDG) : 1 L

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## Air transport (IATA)

Transport document description (IATA) : UN 3264 Corrosive liquid, acidic, inorganic, n.o.s., 8, II

UN-No. (IATA) : 326

Proper Shipping Name (IATA) : Corrosive liquid, acidic, inorganic, n.o.s.

Class (IATA) : 8 - Corrosives
Packing group (IATA) : II - Medium Danger

# **SECTION 15: Regulatory information**

#### Product as sold

## 15.1. US Federal regulations

All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb. 2019, as amended Feb. 2021, or are otherwise exempt or regulated by other agencies such as FDA or FIFRA.

SARA Section 311/312 Hazard Classes Health hazard - Skin corrosion or Irritation

Sulfuric acid (7664-93-9)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb

## 15.2. International regulations

No additional information available.

## 15.3. US State regulations

Component	State or local regulations
Sulfuric acid (7664-93-9)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Strong inorganic acid mists containing sulfuric acid	California - Proposition 65 listing. Strong inorganic acid mists containing sulfuric acid may cause cancer

MARNING: This product can expose you to Strong inorganic acid mists containing sulfuric acid, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### **SECTION 16: Other information**

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NFPA health hazard : 3 - Materials that, under emergency conditions, can cause

serious or permanent injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions,

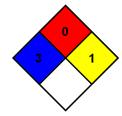
including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 1 - Materials that in themselves are normally stable but can

become unstable at elevated temperatures and pressures.

HMIS Hazard Rating : 3
Health Flammability : 0
Physical : 1



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