

# SAFETY DATA SHEET

## 1. Identification

Product identifier **ACETIC ACID 66%** 

Other means of identification

Recommended use

ALL PROPER AND LEGAL PURPOSES

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

Brenntag Mid-South, Inc. 1405 Highway 136, West

**Address** 

Henderson, KY 42420

Telephone

270-830-1222

E-mail

Not available.

Emergency phone number

800-424-9300 CHEMTREC

## 2. Hazard(s) identification

Flammable liquids Physical hazards

Category 4

Health hazards Acute toxicity, dermal Category 4

Acute toxicity, inhalation

Category 4

Skin corrosion/irritation

Category 1A

Serious eye damage/eye irritation

Category 1

Environmental hazards

OSHA defined hazards

Not classified. Not classified.

Label elements



Signal word

Danger

Hazard statement

Combustible liquid. Harmful in contact with skin. Causes severe skin burns and eye damage.

Harmful if inhaled. Causes serious eye damage.

Precautionary statement

Prevention

Keep away from flames and hot surfaces-No smoking. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective

gloves/protective clothing/eye protection/face protection.

Response

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/doctor. Take off contaminated clothing and wash before reuse. In case of fire: Use

appropriate media to extinguish.

Storage

Store in a well-ventilated place. Keep cool. Store locked up.

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	%
ACETIC ACID		64-19-7	56
Other components below r	enortable levels		44

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

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

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.

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

Indication of immediate medical attention and special treatment needed

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.

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 warm. Keep victim under observation. Symptoms may be delayed.

General information

Ingestion

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Water fog, Alcohol resistant foam, Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

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

so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Combustible liquid.

#### Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. When using, do not eat, drink or smoke. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Store locked up, Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place, Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). 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 C)	FR 1910.1	(000
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Components	Туре	Value	
ACETIC ACID (CAS 64-19-7)	PEL	25 mg/m3	
ŕ		10 ppm	
<b>US. ACGIH Threshold Limit Value</b>	es		
Components	Туре	Value	
ACETIC ACID (CAS 64-19-7)	STEL	15 ppm	
•	TVVA	10 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazard <del>s</del>		
Components	Туре	Value	
ACETIC ACID (CAS 64-19-7)	STEL	37 mg/m3	
- · · · · · · · · · · · · · · · · · · ·		15 ppm	
	TWA	25 mg/m3	
		10 ppm	

**Biological limit values** 

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

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. Eye wash facilities and emergency shower must be available when handling this product.

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

The following are recommendations for Personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. 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**

Physical state

Liquid.

Form

Liquid.

Color

COLORLESS

Odor

VINEGAR-LIKE

Odor threshold

Not available.

pΗ

Not available.

Melting point/freezing point

-9 °F (-22.78 °C)

Initial boiling point and boiling

230.04 °F (110.02 °C) estimated

range

Flash point

195.0 °F (90.6 °C)

Evaporation rate

Not available.

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.

Vapor pressure

Not available.

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature

798.8 °F (426 °C) estimated

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

Density

8.84 lbs/gal

1.06 g/ml

**Explosive properties** 

Not explosive.

Flammability class

Combustible IIIA estimated

Oxidizing properties

Not exidizing. 100 % estimated

Percent volatile

1.06

Specific gravity VOC

56 % estimated

#### 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

Hazardous polymerization does not occur.

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

No hazardous decomposition products are known.

products

#### 11. Toxicological information

## Information on likely routes of exposure

Inhalation

Harmful if inhaled.

Skin contact

Causes severe skin burns. Harmful in contact with skin.

Eve contact

Causes serious eye damage.

Ingestion

Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

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.

Information on toxicological effects

Acute toxicity

Harmful if inhaled. Harmful in contact with skin.

Components

Species

ACETIC ACID (CAS 64-19-7)

**Acute** 

Dermal

LD50

Rabbit

1060 mg/kg

**Test Results** 

Inhalation

LC50

Rat

11.4 mg/l, 4 Hours

Oral

LD50

Rat

3.31 g/kg

Skin corrosion/irritation

Serious eye damage/eye

Causes serious eye damage.

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

Not classifiable as to carcinogenicity to humans.

Causes severe skin burns and eye damage.

IARC Monographs, Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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.

Chronic effects

Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

ACETIC ACID (CAS 64-19-7)

Aquatic

Crustacea

EC50

Water flea (Daphnia magna)

65 mg/l, 48 hours

Fish

LC50

Bluegill (Lepomis macrochirus)

75 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

ACETIC ACID

-0.17

Mobility in soil

No data available.

Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation

potential.

Material name: ACETIC ACID 56%

SDS US

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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.

8

11

## 14. Transport information

DOT

UN number UN2790

UN proper shipping name

ACETIC ACID SOLUTION Transport hazard class(es)

Class Subsidiary risk Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ERG number

Transport information on packaging may be different from that listed. Transportation information on packaging may be different from that listed.

IATA

**UN** number UN2790

UN proper shipping name

ACETIC ACID SOLUTION

Transport hazard class(es)

8 Class

Subsidiary risk

Packing group

Environmental hazards

**ERG Code** 

No. 153

П

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

**UN** number

UN2790

UN proper shipping name

ACETIC ACID SOLUTION not less than 50% but not more than 80% acid, by mass (ACETIC

ACID)

Transport hazard class(es)

Class

8

Subsidiary risk

П

Packing group Environmental hazards

Marine pollutant

No.

F-A S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

DOT



Material name: ACETIC ACID 56%

10045 Version #: 22 Revision date: 09-30-2019 Issue date: 03-31-2015



### 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)

ACETIC ACID (CAS 64-19-7)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard categories

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

#### 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)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

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

ACETIC ACID (CAS 64-19-7)

High priority

## **US state regulations**

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### 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

Material name: ACETIC ACID 56%

Country(s) or region	Inventory name	On inventory (yes/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

Taiwan Taiwan Toxic Chemical Substances (TCS)

Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

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

Issue date

03-31-2015

Revision date

09-30-2019

Version#

22

HMIS® ratings

Health: 3 Flammability: 2

Physical hazard: 0

NFPA ratings

Health: 3

Flammability: 2 Instability: 0

Disclaimer

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Material name: ACETIC ACID 56%

SDS US

<sup>&</sup>quot;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).