

SAFETY DATA SHEET



Section 1. Identification

Product name Acetic Acid
Chemical name Acetic acid.
Other means of identification Acetic Acid Chemically Pure
Acetic acid. Ethanoic acid; Ethylic acid; Methanecarboxylic acid; Eisessig; Acetic acid, glacial
SDS # 0000001037
Historic SDS #: 11001(BP), 0000000794, 5130
Code 0000001037

Relevant identified uses of the substance or mixture and uses advised against

Product use Industrial applications
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

Supplier BP Amoco Chemical Company
150 West Warrenville Road
Naperville, Illinois 60563-8460
USA
Tel: 1 (877) 701-2726

EMERGENCY HEALTH INFORMATION: 1 (800) 447-8735
Outside the US: +1 703-527-3887 (CHEMTREC)

EMERGENCY SPILL INFORMATION: 1 (800) 424-9300 CHEMTREC (USA)

Section 2. Hazards identification

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture FLAMMABLE LIQUIDS - Category 3
SKIN CORROSION - Category 1A
SERIOUS EYE DAMAGE - Category 1

GHS label elements

Hazard pictograms



Signal word Danger

Hazard statements Flammable liquid and vapor.
Causes severe skin burns and eye damage.

Precautionary statements

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
Do not breathe vapor or spray.
Wear protective gloves. Wear eye or face protection. Wear protective clothing.

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Section 2. Hazards identification

Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	Not applicable.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	Not applicable.
Hazards not otherwise classified	None known.

Section 3. Composition/information on ingredients

Substance/mixture	Substance	
Ingredient name	CAS number	%
Acetic acid	64-19-7	99.9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician. Get medical attention immediately.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Chemical burns must be treated promptly by a physician. Clean shoes thoroughly before reuse. Drench contaminated clothing with water before removing. This is necessary to avoid the risk of sparks from static electricity that could ignite contaminated clothing. Contaminated clothing is a fire hazard. Contaminated leather, particularly footwear, must be discarded. Get medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Chemical burns must be treated promptly by a physician. Get medical attention immediately. If swallowed, rinse mouth with water (only if the person is conscious). If affected person is conscious, give plenty of water to drink.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Indication of immediate medical attention and special treatment needed, if necessary

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Section 4. First aid measures

Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects.
Specific treatments	No specific treatment.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Use dry chemical, CO₂, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media Do not use water jet.

Specific hazards arising from the chemical

Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Vapors can form explosive mixtures with air. Vapors are heavier than air and can spread along the ground or float on water surfaces to remote ignition sources. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous combustion products

Combustion products may include the following:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters

DO NOT FIGHT FIRE WHEN IT REACHES MATERIAL. Withdraw from area and allow the fire to burn. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Immediately contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. Eliminate all ignition sources.

For emergency responders Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill Eliminate all ignition sources. Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres.

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Section 6. Accidental release measures

Large spill

Eliminate all ignition sources. Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Dike spill area and do not allow product to reach sewage system and surface or ground water. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Do not reuse container. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Protect from freezing.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Acetic acid	ACGIH TLV (United States). STEL: 37 mg/m ³ 15 minutes. Issued/Revised: 9/1994 STEL: 15 ppm 15 minutes. Issued/Revised: 9/1994 TWA: 25 mg/m ³ 8 hours. Issued/Revised: 9/1994 TWA: 10 ppm 8 hours. Issued/Revised: 9/1994 OSHA PEL (United States). TWA: 25 mg/m ³ 8 hours. Issued/Revised: 6/1993 TWA: 10 ppm 8 hours. Issued/Revised: 6/1993

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

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Section 8. Exposure controls/personal protection

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Chemical splash goggles.

Skin protection

Hand protection

Wear chemical resistant gloves. **Recommended:** Butyl rubber gloves.

Do not re-use gloves. Protective gloves must give suitable protection against mechanical risks (i.e. abrasion, blade cut and puncture). Protective gloves will deteriorate over time due to physical and chemical damage. Inspect and replace gloves on a regular basis. The frequency of replacement will depend upon the circumstances of use.

Body protection

Use of protective clothing is good industrial practice.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Wear suitable protective clothing.

Footwear highly resistant to chemicals.

When there is a risk of ignition from static electricity, wear anti-static protective clothing. For greatest effectiveness against static electricity, overalls, boots and gloves should all be anti-static.

When there is a risk of ignition wear inherently fire resistant protective clothes and gloves.

Work clothing / overalls should be laundered on a regular basis. Laundering of contaminated work clothing should only be done by professional cleaners who have been told about the hazards of the contamination. Always keep contaminated work clothing away from uncontaminated work clothing and uncontaminated personal clothes. When the risk of skin exposure is high (from experience this could apply to the following tasks: cleaning work, maintenance and service, filling and transfer, taking samples and cleaning up spillages) then a chemical protective suit and boots will be required.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Recommended:

Hard hat.

Chemical resistant boots.

Chemical resistant apron

Full chemical protective suit with a hood.

Chemical protective suit consisting of a jacket and trousers. The jacket should be buttoned up to the neck, sleeves sealed at the gloves, and trouser legs worn outside the boots. These precautions are required to prevent the clothing from accidentally trapping

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Section 8. Exposure controls/personal protection

product against the skin.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use only with adequate ventilation. Do not breathe vapor or mist. If ventilation is inadequate, use NIOSH-certified respirator which will protect against organic vapor. If operating conditions cause high vapor concentrations or the TLV is exceeded, use supplied-air respirator.

If there is a requirement for the use of a respiratory protective device, but the use of breathing apparatus (independent of ambient atmosphere) is not required, then a suitable filtering device must be worn.

The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.

Section 9. Physical and chemical properties

Appearance

Physical state	Liquid.
Color	Clear Colorless.
Odor	Vinegar [Strong]
Odor threshold	Not available.
pH	2.4 [Conc. (% w/w): 6.006%]
Melting point	May start to solidify at the following temperature: 16.64°C (62°F)
Boiling point	117.9°C (244.2°F)
Flash point	Closed cup: 39°C (102.2°F) [Pensky-Martens.]
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable. Based on - Physical state
Lower and upper explosive (flammable) limits	Lower: 4% Upper: 19.9%
Vapor pressure	2.1 kPa (15.635 mm Hg) [25°C (77°F)]
Vapor density	2.1 [Air = 1]
Density	1044.6 kg/m ³ (1.045 g/cm ³) at 25°C
Solubility	Miscible in water. (100%)
Partition coefficient: n-octanol/water	-0.17
Auto-ignition temperature	463°C (865.4°F)
Decomposition temperature	Not available.
Viscosity	Kinematic: 1.011 mm ² /s (1.011 cSt) at 25°C

Section 10. Stability and reactivity

Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	Keep away from heat, sparks and flame. This product should be stored away from oxidizing materials and strong bases.
Incompatible materials	Reactive with metals, oxidizing materials, reducing agents, alkalis and alcohols

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Section 10. Stability and reactivity

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Test	Species	Result	Exposure	Remarks
Acetic acid.	LC50 Inhalation Vapor	Mouse	5620 ppm	1 hours	-
	LC50 Inhalation Vapor	Rat	>16000 ppm	4 hours	-
	LD50 Oral	Mouse	4960 mg/kg	-	Based on sodium acetate
	LD50 Oral	Rat	3530 mg/kg	-	-
	LD50 Oral	Rat	3310 mg/kg	-	Based on sodium acetate
	RD50 Inhalation Vapor	Mouse - Male	277 ppm	1 hours	-

Conclusion/Summary Not available.

Irritation/Corrosion

Product/ingredient name	Species	Result	Score	Exposure	Observation	Conc.	Remarks
Acetic acid.	Rabbit	Skin - Slightly irritating to the skin.	-	4 hours 3.3 %	72 hours	3.3 %	-
	Rabbit	Skin - Slightly irritating to the skin.	-	4 hours 10 %	72 hours	10 %	-
	Rabbit	Eyes - Irritant	-	4 hours 0.1 ml, 10 %	72 hours	0.1 ml, 10 %	-
	Rabbit	Eyes - Severe irritant	-	0.01 ml, 10 %	-	0.01 ml, 10 %	-
	Rabbit	Eyes - Cornea opacity	-	3 minutes 0.1 ml, 5 %	7 days	0.1 ml, 5 %	-

Mutagenicity

Product/ingredient name	Test	Experiment	Result	Remarks
Acetic acid.	OECD 476	Experiment: In vitro Subject: Mammal - species unspecified	Negative	Based on Acetic anhydride
	OECD 473	Experiment: In vitro Subject: Mammal - species unspecified	Negative	-
	OECD 471	Experiment: In vitro Subject: Non-	Negative	-

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Section 11. Toxicological information

mammalian species

OECD 474

Experiment: In vivo Negative

Based on Acetic
anhydride

Subject: Unspecified

Conclusion/Summary

Not classified. Based on available data, the classification criteria are not met.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Result	Exposure
Acetic acid.	-	-	Negative	Rabbit	Oral	13 days
	-	-	Negative	Rat	Oral	10 days
	-	-	Negative	Mouse	Oral	10 days

Conclusion/Summary

Development: Not classified. Based on available data, the classification criteria are not met. Assessment was by using a weight of evidence approach.
Fertility: Not classified. Based on available data, the classification criteria are not met. Assessment was by using a weight of evidence approach.
Effects on or via lactation: Not classified. Based on available data, the classification criteria are not met. Assessment was by using a weight of evidence approach.

Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact	Causes serious eye damage.
Skin contact	Causes severe burns.
Inhalation	May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Ingestion	May cause burns to mouth, throat and stomach. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	Adverse symptoms may include the following: pain watering redness
Skin contact	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects

General No known significant effects or critical hazards.

Carcinogenicity No known significant effects or critical hazards.

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Section 11. Toxicological information

Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Other information

Acetic Acid: Humans unacclimatized to acetic acid vapors experience extreme eye and nasal irritation at concentrations above 25 ppm. Air concentrations of 50 ppm are considered intolerable, causing intense lacrymation (eye weeping), nose, and throat irritation. Repeated exposures to high concentrations in man can cause eye conjunctival lesions, blackening of the hands, hyperkeratosis (thickening) of the skin, teeth erosion, congestion and edema of the pharynx, bronchial constriction, and respiratory tract irritation.

Section 12. Ecological information

Toxicity

Product/ingredient name	Species	Test/Result	Exposure	Effects	Remarks
Acetic acid.	Algae	Acute EC50 >300. 82 mg/l Nominal Marine water	72 hours	(growth rate)	Based on Acetate ion
	Daphnia	Acute EC50 >300. 82 mg/l Nominal Fresh water	48 hours	Mobility	Based on Acetate ion
	Fish	Acute LC50 >300. 82 mg/l Nominal Fresh water	96 hours	Mortality	Based on Acetate ion
	Algae	Acute NOEC 300. 82 mg/l Nominal Marine water	72 hours	(growth rate)	Based on Acetate ion
	Micro-organism	Acute NOEC 850 mg/l Nominal Fresh water	16 hours	-	-

Conclusion/Summary Not available.

Persistence and degradability

Readily biodegradable

Product/ingredient name	Test	Result	Remarks
Acetic acid.	not guideline	96 % - Readily - 20 days	-
	not guideline	50 % - 26.7 days	Phototransformation in Air
	not guideline	50 % - 2 days	Biodegradation in Soil

Conclusion/Summary Not available.

Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

Mobility in soil

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Section 12. Ecological information

Soil/water partition coefficient (K_{oc})

Not available.

Mobility





This product may move with surface or groundwater flows because its water solubility is: 100% Miscible in water.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN2789	UN2789	UN2789	UN2789
UN proper shipping name	Acetic acid, glacial or Acetic acid solution, more than 80 per cent acid, by mass acid solution RQ (Acetic acid.)	Acetic acid, glacial or Acetic acid solution, more than 80 per cent acid, by mass acid solution	Acetic acid, glacial or Acetic acid solution, more than 80 per cent acid, by mass acid solution	Acetic acid, glacial or Acetic acid solution, more than 80 per cent acid, by mass acid solution
Transport hazard class(es)	8 (3) 	8 (3) 	8 (3) 	8 (3) 
Packing group	II	II	II	II
Environmental hazards	No.	No.	No.	No.

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Section 14. Transport information

Additional information	<p>Reportable quantity 5000 lbs / 2270 kg [574.07 gal / 2173.1 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.</p> <p>Limited quantity Yes.</p> <p>Packaging instruction Exceptions: 154. Non-bulk: 202. Bulk: 243.</p> <p>Quantity limitation Passenger aircraft/rail: 1 L. Cargo aircraft: 30 L.</p> <p>Special provisions A3, A6, A7, A10, B2, IB2, T7, TP2</p>	<p>Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.18-2.19 (Class 3).</p> <p>Explosive Limit and Limited Quantity Index 0.5</p> <p>ERAP Index 3000</p> <p>Passenger Carrying Road or Rail Index 1</p>	<p>Emergency schedules F-E, S-C</p>	<p>Quantity limitation Passenger and Cargo Aircraft: 1 L. Packaging instructions: 851. Cargo Aircraft Only: 30 L. Packaging instructions: 855. Limited Quantities - Passenger Aircraft: 0.5 L. Packaging instructions: Y840.</p>
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Special precautions for user Not available.

Transport in bulk according to Annex II of MARPOL and the IBC Code	Proper shipping name	Acetic acid.
	Ship type	3
	Pollution category	Z

Section 15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b) All components are listed or exempted.

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 311/312

Classification Fire hazard
Immediate (acute) health hazard

SARA 313

Form R - Reporting requirements This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification This product does not contain any hazardous ingredients at or above regulated thresholds.

State regulations

Massachusetts The following components are listed: ACETIC ACID; ACETIC ACID GLACIAL

New Jersey The following components are listed: ACETIC ACID; ETHANOIC ACID

Pennsylvania The following components are listed: ACETIC ACID; ACETIC ACID, WATER SOLUTIONS

California Prop. 65

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Ingredient name

None of the components are listed.

Other regulations

Australia inventory (AICS)	All components are listed or exempted.
Canada inventory	All components are listed or exempted.
China inventory (IECSC)	All components are listed or exempted.
Japan inventory (ENCS)	All components are listed or exempted.
Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	All components are listed or exempted.
REACH Status	The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

Section 16. Other information

National Fire Protection Association (U.S.A.)



History

Date of issue/Date of revision	10/06/2017.
Date of previous issue	08/07/2017.
Prepared by	Product Stewardship
Key to abbreviations	ACGIH = American Conference of Industrial Hygienists ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS Number = Chemical Abstracts Service Registry Number GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) OEL = Occupational Exposure Limit SDS = Safety Data Sheet STEL = Short term exposure limit TWA = Time weighted average UN = United Nations UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods. Varies = may contain one or more of the following 101316-69-2, 101316-70-5, 101316-71-6, 101316-72-7, 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-64-9, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1, 74869-22-0, 90669-74-2

Indicates information that has changed from previously issued version.

Notice to reader

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Section 16. Other information

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