Updated on: July 2019

IAC العالمية للأسيتيل
International Acetyls Company

Safety Data Sheet

According to Regulation (EC) No. 1272/2008, Regulation (EC) 1907/2006

1. Identification of the substance/mixture and of the responsible company

1.1. Product Identifier: ACETIC Acid (C2H4O2)

GLACIAL ACETIC ACID; ETHANOIC ACID; VINEGAR ACID; ETHYLIC ACID; PYROLIGNEUS ACID; METHANECARBOXYLIC ACID; ACETIC ACID, GLACIAL; UN 2789; C2H4O2

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: Acetic acid is a derivative of natural gas and it is considered to be a weak organic acid. It is widely used in commercial organic synthesis as a chemical reactant for various acetates, acetyl compounds, acetate rayon, plastics and rubber; in tanning, printing and dyeing of fabric. Also used as an acidulant and preservative in foods. Solvent for many substances.

1.3. Details of the supplier of the safety data sheet:

International Acetyls Company (IAC) PO Box 12021
Post Code 31961 Jubail Industrial City
Kingdom of Saudi Arabia
Website: https://www.sipchem.com/en/

1.4. Emergency telephone number: 00966-359 9985 (24 hours)

2. Hazards Identification

Acetic Acid CAS 64-19-7 Purity: 99.8%

Trace Impurities: Water 0.15% Trace acetaldehyde(<5ppm), metals (<1 ppm), sulfates (<1ppm)

Classification of the substance or mixture:
Classification of Labeling in accordance with the CLP Regulations:

Index No	International Chemical Identification	EC No	CAS No	Classification		Labeling			Specific Conc. Limits, M-factors	Notes
				Hazard Class and Category Code(s)	Hazard statement Code(s)	Pictogram Signal Word Code(s)	Hazard Statement Code(s)	Suppl. Hazard statement Code(s)		
607-002-00-6	Acetic Acid	200-580-7	64-19-7	Flam. Liq. 3 Skin Corr. 1A	H226 H314	GHS02 GHS05	CR10-35		100%	

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• Capital: SR 7,333,333,320

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Classification according to Regulation 1272/2008/EC (CLP)
Basis for Classification This substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation, GHS)

ACETIC ACID (64-19-7)
Symbol(s):

Signal Word: Danger

Hazard(s):

H226: Flammable liquid and vapour
H314: Causes severe skin burns and eye damage

Prevention:

P233: Keep container tightly closed.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240: Ground/Bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash ... thoroughly after handling.

Response:

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/physician.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P321: Specific treatment (see ... on this label). **P370+P378**: In case of fire: Use ... for extinction.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

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Disposal:

P501: Dispose of contents/container to ...

SAFETY DATA SHEET

Emergency overview: DANGER! Causes skin and eye burns. Flammable liquid and vapor. Harmful if inhaled. Causes respiratory tract irritations—may cause damage to the respiratory tract, skin, eyes and teeth.

Flammable liquid and vapor. Flash back hazard.

Potential chronic health effects:

CARCINOGENIC EFFECTS: No known significant effects or critical hazards. **MUTAGENIC EFFECTS:** No known significant effects or critical hazards. **REPRODUCTION TOXICITY:** No known significant effects or critical hazards.

2.1. Label: See table above.

2.2. Other hazards: None known.

3. Composition/information on ingredients

Formula	CH3COOH
CAS-No.	64-19-7
Index-No.	607-002-00-6
EC-No.	200-580-7

4. First Aid Measures

4.1. Description of first aid measures

Eye Contact:Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. 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. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Wash out mouth and water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed:

Skin and eye burns, corrosion. Toxic by inhalation; irritating to respiratory system.

4.3. Indication of immediate medical attention and special treatment needed:

No additional information available.

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5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use dry chemical, CO2, water spray (fog) or foam

Unsuitable extinguishing media: *None noted. Water jets may be ineffective.*

5.2. Special hazards arising from the substance or mixture:

Flammable. In a fire or if heated, a pressure increase will occur and the contain may burst, with risk of subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Acidic gases/vapors formed. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

5.3. Advice for fire fighters:

Special protective equipment for fire fighters: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further information: 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 an 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. Do not allow fire extinguishing water to contaminate surface or groundwater systems.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Advice for non-emergency personnel: Evacuate the danger zone; follow emergency precautions. Secure emergency assistance immediately. Avoid contact with the material; do not breath vapors or aerosol. If possible, provide additional ventilation.

Advice for emergency responders: Do not take action without proper training and emergency equipment. See Section 8 for additional information. Evacuate surrounding areas. Eliminate all ignition sources including flares and all open flames. Avoid all contact with spiller material. Maintain adequate ventilation and wear appropriate respiratory protection.

6.2. 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).

6.3. Methods and materials for containment:

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, surface waters, basements or confined areas. Wash spillage into effluent treatment plant. Contain and collect spillage using appropriate personal protective equipment. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handing chemical products or if a risk assessment indicates this is necessary. Collect and contain spillage with non-combustible, absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in a container for disposal according to local regulations. Use spark-proof tools and explosion proof equipment. Contaminated absorbent material may pose the same hazard(s) as the spilled product.

6.4. Reference to other sections:

See disposal instruction 13 and exposure controls Section 8.

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7. Handling and storage

7.1. Precautions for safe handling:

Observe all label precautions. Use appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on protection against fire and explosion: Keep away from flames and sources of ignition – including static.

7.2. 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. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. 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.

7.3. Specific end uses:

No other additional special end uses are anticipated.

8. Exposure controls/personal protection

8.1. Control parameters:

Personal, workplace or environmental monitoring may be necessary to ensure exposures are below recommended and legal limits.

Exposure Limits ACETIC ACID (67-19-7)

ACGIH:	10 ppm TWA 15 ppm STEL
NIOSH:	10 ppm TWA; 25 mg/m3 Ceiling
OSHA (US):	10 ppm TWA; 25 mg/m3 TWA
Mexico:	10 ppm TWA LMPE-PPT; 25 mg/m3 TWA LMPE-PPT 15 ppm STEL LMPE-CT; 25 mg/m3 STEL LMPT-CT
Europe:	10 ppm TWA; 25mg/m3 TWA

Exposure Limits for Chemicals which may be generated during processing
This material has no components listed.

8.2. Exposure controls:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Engineering measures: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The

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engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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. Discard contaminated clothing or wash thoroughly before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is required.

Glove material: butyl or nitrile rubber (natural rubber not recommended) Glove thickness: 0.7 mm or thicker
Break through time: > 240 minutes

Other protective equipment: Flame retardant antistatic protective clothing

Respiratory protection: A properly fitted air purifying respirator or air supply respirator should be worn if a risk assessment indicates that respiratory protection is necessary. Respirator selection must be based upon known or measured levels of exposure.

Environmental exposure controls: Ventilation and engineering controls to protect workers and ventilate work area to at or below recommended employee exposure levels. Technical measures are preferred over use of personal protective equipment. Environmental controls, such as scrubber or thermal oxidizer may be required to prevent process releases to the atmosphere. Do not empty into drains—risk of explosion.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Physical State: Liquid	**Appearance:** clear
Color: colorless	**Physical Form:** liquid
Odor: vinegar odor	**Odor Threshold:** 1.0 ppm
Taste: acid taste	**pH:** 2.4
pH (solution): (1.0 M) 2.4	**Melting Point:** 17 °C
Boiling Point: 118 °C	**Evaporation Rate:** 0.97 butyl acetate=1
Flash Point: 39 °C CC	**LEL:** 4.0 % 59 °C
OSHA Flammability Class: II	**UEL:** 16.0 % 92 °C
Autoignition: 464 °C	**Vapor Pressure:** 11.8 mmHg 20 °C
Vapor Density (air = 1): 2.07	**Density:** Not available
Specific Gravity (water = 1): 1.0492	**Water Solubility:** soluble
Coeff. Water/Oil Dist: Not available	**Viscosity:** 1.22 cP 20 °C
Volatility: Not available	**Molecular Weight:** 60.05
Molecular Formula: C-H3-C-O2-H	

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Solvent Solubility

Soluble: ethanol, glycerol, ether, acetone, benzene, carbon tetrachloride Insoluble: carbon disulfide, chloroform, dimethyl sulfoxide

10. Stability and reactivity

10.1. Reactivity:

Will not polymerize under normal conditions of storage and use.

10.2. Chemical stability:

Stable at normal temperature and pressure. May form flammable gases or vapors.

10.3. Possibility of hazardous reactions:

Hazardous reactions will not occur under normal storage and use conditions. Avoid contact with incompatible materials.

10.4. Conditions to avoid:

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with combustible materials and strong oxidizers.

10.5. Incompatible materials:

combustible materials, amines, oxidizing materials, bases, halogens, acids, peroxides, metals.

10.6. Hazardous decomposition products:

Carbon oxides, acidic vapors

11. Toxicological information

11.1. Information on toxicological effects:

Acute oral toxicity LD50 rat:	*3310-3530 mg/kg (RTECS)*
Acute inhalation toxicity LC50 :	*Inhalation LC50 Rat 11.4 mg/L 4 h; Oral LD50 Rat 3310 mg/kg; Dermal LD50 Rabbit 1060 mg/kg*
Acute dermal toxicity LD50 rabbit:	*1060 mg/kg (RTECS)*
Skin irritation:	*Severe irritant, may cause burns on long term exposure*
Eye irritation:	*Risk of serious damage to eyes..*
Genotoxicity in vitro:	
Ames test:	*negative (IUCLID)*
Specific target organ toxicity - single exposure:	*The substance is not classified as a specific target organ toxicant, single exposure.*
Specific target organ toxicity - repeated exposure:	*The substance is not classified as a target organ toxicant, repeated exposure.*
Aspiration hazard:	*No information available*

11.2. Additional information:

Further data: Handle using good occupational and environmental health practices.

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12. Ecological information

12.1. Toxicity

Toxicity in fish LC50:	*75* mg/L (ECOTOX: 96 hour, Pimehphalus Promelas)
Toxicity to daphnia and other aquatic invertebrates:	*47* mg/L; (IUCLID: 24 hour, Daphnia magna)

12.2. Persistence and degradability:

Readily biodegradable >100% (OECD Test Guideline 302B , 5 day)

12.3. Bio accumulative potential:

Not expected

12.4. Mobility in soil:

No information available.

12.5. Results of PBT and vPvB assessment:

Assessment not available.

12.6. Other adverse effects:

Acetic acid may shift pH of aqueous ecosystem.

Additional ecological information: Do not allow product to enter surface waters, wastewater or soil.

13. Disposal considerations

Waste treatment methods: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

14. Transport Information

The transport regulations are cited according to international and/or harmonized transport regulations. Possible national deviations and country specific requirements are not considered.

U.S. DOT
Shipping Name: Acetic acid, glacial Hazard Class: 8
UN/NA #: UN2789
Packing Group: II Required Label(s): 8, 3

TDG/ADR Information
Shipping Name: Acetic acid, glacial Hazard Class: 8
UN #: UN2789
Packing Group: II Required Label(s): 8, (3)

ADR Tunnel Code Restrictions

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This list contains tunnel restriction codes for those substances and/or chemically related entries which are found in chapter 3.2 of the ADR regulations.

ACETIC ACID (64-19-7)

Restriction(s): D/E [UN2789] (II); E [UN2790] (II); E [UN2790] (III)

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UN #: UN2789
Packing Group: II Required Label(s): 8, 3

IATA Information
Shipping Name: Acetic acid, glacial Hazard Class: 8
UN #: UN2789
Packing Group: II Required Label(s): 8, 3

ICAO Information
Shipping Name: Acetic acid, glacial Hazard Class: 8
UN #: UN2789
Packing Group: II Required Label(s): 8, 3

IMDG Information
Shipping Name: Acetic acid, glacial Hazard Class: 8
UN #: UN2789
Packing Group: II Required Label(s): 3

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40

CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA

12(b), and/or require an OSHA process safety plan.

ACETIC ACID (64-19-7)
CERCLA: 5000 lb final RQ; 2270 kg final RQ
SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: Yes **Chronic Health:** No **Fire:** Yes **Pressure:** No **Reactive:** No

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
ACETIC ACID	64-19-7	Yes	Yes	Yes	Yes	Yes

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Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

ACETIC ACID (64-19-7) 1 %

Germany Water Classification ACETIC ACID (64-19-7)

ID Number 93, hazard class 1 - low hazard to waters (>25%)

Symbol(s) C Corrosive

Risk Phrases

R10 Flammable.
R35 Causes severe burns.
R34 Causes burns.
R36/38 Irritating to eyes and skin.

Safety Phrases

S1/2 Keep locked-up and out of the reach of children.
S23 Do not breathe gas, fumes, vapor, or spray.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
ACETIC ACID	64-19-7	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

Globally Harmonized System of Classification and Labeling (GHS)

European Union GHS Classifications

Classifications below according to Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).

ACETIC ACID (64-19-7)

Flammable liquids -	Category 3	**H226** Flammable liquid and vapour.
Skin corrosion/irritation -	Category 1A	**H314** Causes severe skin burns and eye damage.

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European Union GHS Labeling Information

Labeling information below is according to Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).

ACETIC ACID (64-19-7)

Symbol(s):

Signal Word: Danger

Hazard(s):

H226: Flammable liquid and vapour
H314: Causes severe skin burns and eye damage

Prevention:

P233: Keep container tightly closed.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240: Ground/Bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash ... thoroughly after handling.

Response:

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/physician.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P321: Specific treatment (see ... on this label).

P370+P378: In case of fire: Use ... for extinction.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

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P405: Store locked up.

Disposal:

P501: Dispose of contents/container to...

Japan GHS Classifications

Classifications below published under Japan's Chemicals Classification Program according to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

ACETIC ACID (64-19-7)

Flammable liquids -	Category 3	**H226** Flammable liquid and vapour.
Acute toxicity - Dermal -	Category 4	**H312** Harmful in contact with skin.
Skin corrosion/irritation -	Category 1	**H314** Causes severe skin burns and eye damage.
Serious eye damage/eye Irritation -	Category 1	**H318** Causes serious eye damage.
Specific target organ toxicity - Single exposure -	Category 1	**H370** Causes damage to blood.
Specific target organ toxicity - Single exposure -	Category 2	**H371** May cause damage to respiratory system.
Hazardous to aquatic environment - acute hazard -	Category 3	**H402** Harmful to aquatic life.

Japan GHS Labeling Information

Labeling information below according to classifications published by Japan's Chemicals Classification Program according to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

ACETIC ACID (64-19-7)

Symbol(s):

Signal Word: Danger

Hazard(s):

H226: Flammable liquid and vapour
H312: Harmful in contact with skin
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage **H370**: Causes damage to organs **H371**: May cause damage to organs **H402**: Harmful to aquatic life

Prevention:

P233: Keep container tightly closed.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240: Ground/Bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash ... thoroughly after handling.

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P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.

Response:

P308+P313: IF exposed or concerned: Get medical advice/attention.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P310: Immediately call a POISON CENTER or doctor/physician.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P362+P364: Take off contaminated clothing and wash it before reuse.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER or doctor/physician.
P321: Specific treatment (see ... on this label).
P370+P378: In case of fire: Use ... for extinction.
Storage: **P403+P235**: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

Disposal:

P501: Dispose of contents/container to ...

Korea GHS Classifications (SV)

Classifications below published by Korea's Ministry of Environment (MOE), Ministry of Employment and Labor (MOEL) or Office of National Emergency Management (NEMA, physical hazards only).

ACETIC ACID (64-19-7) MOEL:

Flammable liquids -	Category 3	**H226** Flammable liquid and vapour.
Acute toxicity - Dermal -	Category 4	**H312** Harmful in contact with skin.
Skin corrosion/irritation -	Category 1	**H314** Causes severe skin burns and eye damage. Serious eye
damage/eye Irritation -	Category 1	**H318** Causes serious eye damage.
Respiratory sensitizers -	Category 1	**H334** May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
Specific target organ toxicity - Single exposure -	Category 1	**H370** Causes damage to blood.
Specific target organ toxicity - Single exposure -	Category 2	**H371** May cause damage to respiratory system.

NEMA:

Flammable liquids -	Category 3	**H226** Flammable liquid and vapour.

Korea GHS Labeling Information

Labeling information below according to classifications published by Korea's Ministry of Environment (MOE), Ministry of Employment and Labor (MOEL) or Office of National Emergency Management (NEMA, physical hazards only).

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ACETIC ACID (64-19-7)

Symbol(s):

Signal Word: Danger

Hazard(s):

H226: Flammable liquid and vapour
H312: Harmful in contact with skin
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage
H334: May cause allergic or asthmatic symptoms or breathing difficulties if inhaled
H370: Causes damage to organs

Prevention:

P233: Keep container tightly closed.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240: Ground/Bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P284: Wear respiratory protection.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash ... thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

Response:

P308+P313: IF exposed or concerned: Get medical advice/attention.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P310: Immediately call a POISON CENTER or doctor/physician.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P362+P364: Take off contaminated clothing and wash it before reuse.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310: Immediately call a POISON CENTER or doctor/physician.
P321: Specific treatment (see ... on this label).
P370+P378: In case of fire: Use ... for extinction.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

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Disposal:

P501: Dispose of contents/container to...

Symbol(s):

Signal Word: Warning

Hazard(s):

H226: Flammable liquid and vapour

Prevention:

P233: Keep container tightly closed.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240: Ground/Bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378: In case of fire: Use ... for extinction.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:

P501: Dispose of contents/container to...

New Zealand GHS Classifications

Classifications below according to the Environmental Risk Management Authority's (ERMA) Hazardous Substances and New Organisms (HSNO) Act, as amended.

ACETIC ACID (64-19-7) Approval: HSR000975, HSC000320

Flammable liquids -	Category 3	**H226** Flammable liquid and vapour. (>80% aqueous solution)
Corrosive to metals -	Category 1	**H290** May be corrosive to metals. (>80%aqueous solution)
Acute toxicity - Oral -	Category 4	**H302** Harmful if swallowed. (>80%aqueous solution)
Acute toxicity - Dermal -	Category 4	**H312** Harmful in contact with skin. (>80% aqueous solution)
Acute toxicity - Inhalation -	Category 4	**H332** Harmful if inhaled. (>80%aqueous solution)
Skin corrosion/irritation -	Category 1B	**H314** Causes severe skin burns and eye damage. (>80% aqueous solution)
Serious eye damage/eye Irritation -	Category 1	**H318** Causes serious eye damage. (>80% aqueous solution)
Terrestrial Vertebrate Ecotoxicity -	Category 3	**H433** Harmful to terrestrial vertebrates. (>80% aqueous solution)

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New Zealand GHS Labeling Information

Labeling information below according to classifications published by New Zealand's Environmental Risk Management Authority's (ERMA) Hazardous Substances and New Organisms (HSNO) Act, as amended.

ACETIC ACID (64-19-7)

Symbol(s):

Signal Word: Danger

Hazard(s):

H226: Flammable liquid and vapour **H290**: May be corrosive to metals **H302**: Harmful if swallowed
H312: Harmful in contact with skin
H332: Harmful if inhaled
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage **H433**: Harmful to terrestrial vertebrates

Prevention:

P233: Keep container tightly closed.
P234: Keep only in original container.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240: Ground/Bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash ... thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

Response:

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P310: Immediately call a POISON CENTER or doctor/physician.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P362+P364: Take off contaminated clothing and wash it before reuse.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER or doctor/physician.

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P321: Specific treatment (see ... on this label).
P330: Rinse mouth.
P370+P378: In case of fire: Use ... for extinction.
P390: Absorb spillage to prevent material-damage.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.
P406: Store in corrosive resistant/ ... container with a resistant inner liner.

Disposal:

P501: Dispose of contents/container to...
Remark(s): >80% aqueous solution

South Africa GHS Classifications

Information below presented according to the South African Bureau of Standards (SANS 10234:2008 - Globally Harmonized System (GHS) of Classification and Labeling of Chemicals). The information below identifies substances with recommended GHS classifications by CAS or RR numbers and chemical names; the data field contains the word ''Present'' along with any clarifying information in parenthesis. NOTE: Due to copyright laws on the standard, we are not able to publish the classification. Details about South Africa's implementation of GHS are available by ordering the Standard and its supplement through the South African Bureau of Standards website.

ACETIC ACID (64-19-7)

Listing: Present (>10% and <80% acid, by mass); Present (<=10% acid, by mass); Present (>80% acid, by mass, glacial)

Taiwan GHS Classifications

Information below presented according to Taiwan's Bureau of Standards, Metrology and Inspection (BSMI) of the Ministry of Economic Affairs. This agency has published a series of standards (CNS 15030 1-27 Chemical Classification and Labeling) which provide guidance on classification and labeling of chemicals according to GHS.

ACETIC ACID (64-19-7)

Taiwan:

Flammable liquids -	Category 3	**H226** Flammable liquid and vapour.
Corrosive to metals -	Category 1	**H290** May be corrosive to metals.
Acute toxicity - Oral -	Category 5	**H303** May be harmful if swallowed.
Acute toxicity - Dermal -	Category 4	**H312** Harmful in contact with skin.
Acute toxicity - Inhalation -	Category 4	**H332** Harmful if inhaled.
Skin corrosion/irritation -	Category 1	**H314** Causes severe skin burns and eye damage.
Serious eye damage/eye Irritation -	Category 1	**H318** Causes serious eye damage.
Hazardous to aquatic environment - acute hazard -	Category 3	**H402** Harmful to aquatic life.

Taiwan GHS Labeling Information

Labeling information below according to classifications published by Taiwan's Bureau of Standards, Metrology and Inspection (BSMI) of the Ministry of Economic Affairs. This agency has published a series of standards (CNS 15030
1-27 Chemical Classification and Labeling) which provide guidance on classification and labeling of chemicals according to GHS.

ACETIC ACID (64-19-7)

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Symbol(s):

Signal Word: Danger

Hazard(s):

H226: Flammable liquid and vapour
H290: May be corrosive to metals
H303: May be harmful if swallowed
H312: Harmful in contact with skin
H332: Harmful if inhaled
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage
H402: Harmful to aquatic life

Prevention:

P233: Keep container tightly closed.
P234: Keep only in original container.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240: Ground/Bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P260: Do not breathe dust/fume/gas/mist/vapours/spray
P264: Wash ... thoroughly after handling.
P273: Avoid release to the environment.

Response:

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P310: Immediately call a POISON CENTER or doctor/physician.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P362+P364: Take off contaminated clothing and wash it before reuse.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER or doctor/physician.
P321: Specific treatment (see ... on this label).
P370+P378: In case of fire: Use ... for extinction.
P390: Absorb spillage to prevent material-damage.

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Storage:

P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.
P406: Store in corrosive resistant/ ... container with a resistant inner liner.

Disposal:

P501: Dispose of contents/container to ...

15.2. Chemical Safety Assessment:

Sipchem has not conducted a chemical safety assessment for this product.

16. Other information

16.1. Training Advice:

Provide safety information, instruction and training to operators handling acetic anhydride.

The information and recommendations herein are taken from data contained in independent, industry recognized references. Although reasonable care has been taken in the preparation of the information herein, Sipchem and International Acetyls Company. make no guarantee, warranty (express or implied) or other representation and assume no responsibility as to the accuracy or suitability of such information for application of the information, since conditions of its use are beyond control of these companies. Sipchem and International Acetyls Company shall not bear any liability whatsoever for any loss or damage incurred in connection with the use of this substance.

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• رأس المال ٧،٣٣٣،٣٣٣،٣٢٠ ريال سعودي