



## Acetic Acid

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

### 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product Name Acetic Acid  
 CAS No. 64-19-7  
 EC No. 200-580-7  
 REACH Registration No. 01-2119475328-30-XXXX

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

Identified Use(s) PC21 Laboratory chemicals  
 Uses Advised Against Not known.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer  
 Company Identification Rathburn Chemicals Ltd  
 Address of Manufacturer 6 Caberston Road  
 Walkerburn  
 Peeblesshire  
 Scotland  
 Postal code EH43 6AU  
 Telephone: 00 (44) (0) 1 896 870 651  
 Fax Not known.  
 E-mail sales@rathburn.co.uk  
 Office hours 09:00 - 17:00  
 Supplier

Company Identification Rathburn Chemicals Ltd  
 Address of Supplier 6 Caberston Road  
 Walkerburn  
 Peeblesshire  
 Scotland  
 Postal code EH43 6AU  
 Telephone: 00 (44) (0) 1 896 870 651  
 Fax Not known.  
 E-mail sales@rathburn.co.uk  
 Office hours 09:00 - 17:00

#### 1.4 Emergency telephone number

Emergency Phone No. 00 (44) (0) 1 896 870 651 or 00 (44) (0) 7807 520501  
 Contact Roddy Stoddart  
 National response centre  
 Address NHS Direct  
 Emergency Phone No. +44 111

### 2. SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Flam. Liq. 3 :Flammable liquid and vapour.  
 Skin Corr. 1A :Causes severe skin burns and eye damage.

#### 2.2 Label elements

Product Name According to Regulation (EC) No. 1272/2008 (CLP)  
 Acetic Acid

Hazard Pictogram(s)



GHS02



GHS05

Signal Word(s) Danger

Hazard Statement(s) H226: Flammable liquid and vapour.  
 H314: Causes severe skin burns and eye damage.



## Acetic Acid

Precautionary Statement(s) None.  
**2.3 Other hazards** None known.  
**2.4 Additional Information** For full text of H/P Statements see section 16.

### 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
acetic acid ... %	64-19-7	200-580-7	100	Flam. Liq. 3 H226 Skin Corr. 1A H314	GHS02 GHS05

**3.2 Mixtures** Not applicable.

### 4. SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

Inhalation Immediately call a POISON CENTRE/doctor.  
 Skin Contact Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a POISON CENTRE/doctor.  
 Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.  
 Ingestion Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

Causes burns.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (see Medical Advice on this label). Treat symptomatically.

### 5. SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable Extinguishing media Use water spray, foam, dry powder or CO<sub>2</sub> to extinguish.  
 Unsuitable extinguishing media Water jet spray

#### 5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour. Combustion or thermal decomposition will evolve toxic and irritant vapours.

#### 5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

### 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable protective clothing, gloves and eye/face protection.

#### 6.2 Environmental precautions

This material and its container must be disposed of in a safe way.

#### 6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Containers must not be punctured or destroyed by burning, even when empty.

#### 6.4 Reference to other sections

See Also Section 8, 13.



## Acetic Acid

### 7. SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

#### 7.2 Conditions for safe storage, including any incompatibilities

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

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

None known.

#### 7.3 Specific end use(s)

PC21 Laboratory chemicals

### 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### 8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Acetic acid	64-19-7	10	25	20	50	
Acetic acid	64-19-7	10	25	20	50	Comp.

Region  
United Kingdom

Source  
UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark

Notes

#### 8.2 Exposure controls

8.2.1. Appropriate engineering controls Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

##### 8.2.2. Personal protection equipment



Eye Protection

Wear eye protection with side protection (EN166).



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection

Normally no personal respiratory protection is necessary. Handling of larger amounts A suitable mask with filter type A (EN14387 or EN405) may be appropriate.

Thermal hazards

None known.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

### 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance

Liquid.

Odour

Colour : Colourless  
specific

Odour threshold

Not known.

pH

Not known.



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Melting point/freezing point	17c
Initial boiling point and boiling range	118c
Flash Point	40c
Evaporation rate	Not known.
Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive limits	Upper explosion limit: 19.9 %(V), lower explosion limit: 4 %(V).
Vapour pressure	Not known.
Vapour density	Not known.
Density (g/ml)	1.05 g/ml
Relative density	Not known.
Solubility(ies)	Solubility (Water) : Not known. Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Not known.
Auto-ignition temperature	485C.
Decomposition Temperature (°C)	Not known.
Viscosity	Not known.
Explosive properties	Not known.
Oxidising properties	Not known.
<b>9.2 Other information</b>	None.

### 10. SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

None anticipated.

#### 10.2 Chemical Stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

#### 10.4 Conditions to avoid

Avoid friction, sparks, or other means of ignition.

#### 10.5 Incompatible materials

Not known.

#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

### 11. SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute toxicity - Ingestion	Low acute toxicity
Acute toxicity - Skin Contact	Low acute toxicity
Acute toxicity - Inhalation	Low acute toxicity
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/irritation	Non-irritant
Skin sensitization data	Not classified
Respiratory sensitization data	Not classified
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	Not classified
Lactation	Not classified
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified
Aspiration hazard	Not classified

#### 11.2 Other information

Not known.

### 12. SECTION 12: ECOLOGICAL INFORMATION

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.



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Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.
<b>12.2 Persistence and Degradation</b>	
	Not known.
<b>12.3 Bioaccumulative potential</b>	
	Not known.
<b>12.4 Mobility in soil</b>	
	Not known.
<b>12.5 Results of PBT and vPvB assessment</b>	
	Not known.
<b>12.6 Other adverse effects</b>	
	Not known.

### 13. SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Dispose at suitable refuse site.

#### 13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

### 14. SECTION 14: TRANSPORT INFORMATION

#### 14.1 UN number

UN No. 2789

#### 14.2 UN proper shipping name

UN proper shipping name ACETIC ACID SOLUTION

#### 14.3 Transport hazard class(es)

ADR/RID Class	8
IMDG Class	8
IMDG EMS	F-E, S-C
ICAO/IATA	
Excepted Quantities	E2
Passenger and Cargo Aircraft Limited Quantities Packing Instructions	Y840
Passenger and Cargo Aircraft Limited Quantities Max net Qty	0.5L
Passenger and Cargo Aircraft Packing Instructions	851
Passenger and Cargo Aircraft Max net Qty	1L
Cargo Aircraft Packing Instructions	855
Cargo Aircraft Max net Qty	30L
Special Provisions	
Emergency Response Guidebook (ERG) Code	8F
ADR Classification Code	CF1
ADR HIN	83
ADR Transport Category	2
Tunnel Restriction Code	D/E
Emergency Action Code	•2P
APP Advice on Additional Personal Protection (APP)	A(fl)

#### 14.4 Packing group

Packing group	II
Labels	8 +3



## Acetic Acid



Special Provisions	
Limited Quantities	1 L
Excepted Quantities	E2
Mixed Packing Instructions for Packages	P001 IBC02
Special Packing Provisions for Packages	
Mixed Packing Instructions for Packages	MP15
<b>14.5 Environmental hazards</b>	
Environmental hazards	Not classified as a Marine Pollutant.
<b>14.6 Special precautions for user</b>	
Special precautions for user	Not known.
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	
Instructions for Portable Tanks	T7
Special Provisions for Portable Tanks	TP2
Tank Code for Tanks	L4BN
Special Provisions for Tanks	
Vehicle for Tank Carriage	FL
Special Provisions for Carriage - Packages	
Special Provisions for Carriage - Bulk	
Special Provisions for Carriage - Loading, Unloading and Handling	
Special Provisions for Carriage - Operation	S2

## 15. SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

REACH: ANNEX XIV list of substances subject to authorisation Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles acetic acid ... % (64-19-7)

Community Rolling Action Plan (CoRAP) Not listed

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Not listed

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**15.2 Chemical Safety Assessment** A REACH chemical safety assessment has not been carried out.

## 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

### LEGEND

Hazard Pictogram(s)



## Acetic Acid



GHS02



GHS05

### Hazard Statement(s)

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

### Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.  
P242: Use non-sparking tools.  
P243: Take action to prevent static discharges.  
P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
P264: Wash hands and exposed skin thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331+P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P303+P361+P353+P310: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTRE/doctor.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338+P310: 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 CENTRE/doctor.  
P321: Specific treatment (see Medical Advice on this label).  
P363: Wash contaminated clothing before reuse.  
P370+P378: In case of fire: Use water spray, foam, dry powder or CO<sub>2</sub> to extinguish.  
P403+P235: Store in a well-ventilated place. Keep cool.  
P405: Store locked up.  
P501: Dispose of contents in accordance with local, state or national legislation.

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