

SAFETY DATA SHEET

Acetic Acid 20%

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Issued: 27/04/2026
Revision No: 3

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product Name: Acetic Acid 20-23%
Index No.: 607-002-00-6
EC Number: 200-580-7
CAS No.: 64-19-7
Synonyms: ACETIC ACID 20% SOL, ACETIC ACID 20% SOL BE, ACETIC ACID PURE 20% SOL, ACETIC ACID PURE 20% SOL BLK, ACETIC ACID PURE 20% SOL CS, ACETIC ACID PURE 20% SOL CS BLK, ACETIC ACID TECH 20% SOL BLK
Pure substance/mixture: Substance

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

Recommended use: Chemical
pH control
Cosmetics
Chemical intermediate
Food/Feed additive
Food industry
For further information, see attached Exposure Scenario

Details of the supplier of the safety data sheet:

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)

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Label elements:



Signal word:

Warning

Hazard statements:

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Precautionary statements:

P264 - Wash skin thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Other hazards:

No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical name	Weight-%	EC No. (EU index no.)	UK REACH reg no.	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-factor	M-factor long-term
Acetic Acid % 64-19-7	20 - <23%	200-580-7 (607-002-00-6)	UK-01- 7556755848-3- XXXX	Flam. Liq. 3 (H226) Skin Corr. 1A (H314)	Eye Irrit. 2: 10%≤C<25% Skin Corr. 1A: C≥90% Skin Corr. 1B: 25%≤C<90% Skin Irrit. 2: 10%≤C<25%	-	-

Full text of H- and EUH-phrases: See section 16.

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59).

4. FIRST AID MEASURES

Description of first aid measures:

General advice:

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation:

Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact:

Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact:

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion:

Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.

Self-protection of the first-aider: Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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Most important symptoms and effects, both acute and delayed:

Eyes: Causes serious eye irritation.

Dermal: Causes skin irritation.

Indication of any immediate medical attention and special treatment needed:

Note to doctors: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Dry chemical, CO₂, alcohol-resistant foam or water spray.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

Special hazards arising from the substance or mixture:

Specific hazards arising from the chemical: Thermal decomposition can lead to release of irritating gases and vapours.

Hazardous combustion products: Carbon oxides.

Advice for firefighters:

Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Cool containers with flooding quantities of water until well after fire is out.

Collect contaminated fire extinguishing water separately.

Do not allow it to enter drains or surface water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: See section 8 for more information. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.

Other information: Refer to protective measures listed in Sections 7 and 8.

For emergency responders: Use personal protection recommended in Section 8.

Environmental precautions: Avoid release to the environment. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Following product recovery, flush area with water.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations. Observe good chemical hygiene practices.

Reference to other sections: See section 8 for more information. See section 13 for more information.

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7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling: Avoid contact with skin and eyes. Do not breathe vapour or mist.

General hygiene considerations: Remove and wash contaminated clothing and gloves, including the inside, before re-use.
Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities:

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from other materials. Strong acids. Strong bases. Strong oxidising agents. Strong reducing agents.
Alcohols. Glycols. Amines.

Specific end use(s):

Specific use(s): See section 1 for more information.

Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure Limits:

Chemical name	United Kingdom
ACETIC ACID...% 64-19-7	TWA: 10 ppm TWA: 25 mg/m3 STEL: 20 ppm STEL: 50 mg/m3

Biological occupational exposure limits: This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

Derived No Effect Level (DNEL) – Workers:

Chemical name	Oral	Dermal	Inhalation
ACETIC ACID...% 64-19-7			25 mg/m3 [5] [6] 25 mg/m3 [5] [7]

[5] Local health effects

[6] Long term

[7] Short term

Derived No Effect Level (DNEL) - General Public:

Chemical name	Oral	Dermal	Inhalation
ACETIC ACID...% 64-19-7			25 mg/m3 [5] [6] 25 mg/m3 [5] [7]

[5] Local health effects

[6] Long term

[7] Short term

[cont...]

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Predicted No Effect Concentration (PNEC):

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
ACETIC ACID...% 64-19-7	3.058 mg/L	30.58 mg/L	0.3058 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
ACETIC ACID...% 64-19-7	11.36 mg/kg sediment dw	1.136 mg/kg sediment dw	85 mg/L	0.47 mg/kg soil dw	85 mg/l

Exposure controls:

Engineering controls: Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment:

Eye/face protection: Use eye protection according to EN 166. Tight sealing safety goggles.

Hand protection: Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Long term (repeated)	Butyl rubber	0.3 mm	= 8 hours

Skin and body protection: Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection: None under normal use conditions. In case of inadequate ventilation wear respiratory protection. Type E.

General hygiene considerations: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

Environmental exposure controls: Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Liquid

Appearance: Liquid

Colour: Colourless

Odour: Characteristic

Odour threshold: No information available

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Property	Values	Remarks - Method
Melting point / freezing point	< -3 °C	
Initial boiling point and boiling range	> 100 °C	
Flammability		No information available
Flammability Limit in Air		No information available
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point		No information available
Autoignition temperature	427°C	
Decomposition temperature		No information available
pH		No information available
pH (as aqueous solution)	2.5	Solution 2%
Kinematic viscosity		No information available
Dynamic viscosity		No information available
Water solubility	Soluble in water	
Solubility(ies)		No information available
Partition coefficient		No information available
Vapour pressure	15.7 mbar	
Relative density	1.01 – 1.03	@ 20°C
Bulk density		No information available
Liquid Density	No information available	No information available
Relative vapour density		No information available
Particle characteristics		Not applicable
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	No information available	
Oxidising properties	No information available	

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage conditions.

Chemical stability:

Stability: Stable under normal conditions.

Explosion data:

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: None.

Possibility of hazardous reactions: None under normal processing.

Conditions to avoid: Avoid excessive heat for prolonged periods of time.

Incompatible materials: Strong reducing agents. Alcohols. Glycols. Amines. Strong acids. Strong bases. Strong oxidising agents.

Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Information on likely routes of exposure:

Product Information:

Inhalation: May cause irritation.
Eye contact: Causes serious eye irritation.
Skin contact: Causes skin irritation.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: Irritating. May cause redness and tearing of the eyes.

Acute toxicity:

Numerical measures of toxicity: Based on available data, the classification criteria are not met

The following values are calculated based on chapter 3.1 of the GHS document

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ACETIC ACID...%	= 3310mg/kg (Rat)	=1060mg/kg (Rabbit)	=11.4mg/l (Rat) 4h

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Based on available data the classification criteria are not met.

Germ cell mutagenicity: Based on available data the classification criteria are not met.

Carcinogenicity: Based on available data the classification criteria are not met.

Reproductive toxicity: Based on available data the classification criteria are not met.

STOT - single exposure: Based on available data the classification criteria are not met.

STOT - repeated exposure: Based on available data the classification criteria are not met.

Aspiration hazard: Based on available data the classification criteria are not met.

Other adverse effects: No information available.

12. ECOLOGICAL INFORMATION

Toxicity:

Ecotoxicity: The product components are 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.

ACETIC ACID...% (64-19-7)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Daphnia magna	EC50	65mg/L	48 hours	
	Fish	LC50	79mg/L	96 hours	

Persistence and degradability: Readily biodegradable.

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Bioaccumulative potential:

Bioaccumulation: Not likely to bioaccumulate.

Component Information:

Chemical name	Partition coefficient
ACETIC ACID...%	-0.17

Mobility in soil: Soluble in water.

Results of PBT and vPvB assessment:

PBT and vPvB assessment: The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
ACETIC ACID...%	The substance is not PBT/vPvB

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste from residues/unused products: Waste is classified as hazardous waste.

Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

Contaminated packaging: Do not reuse empty containers. Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

IATA:

UN number or ID number: UN2790
UN proper shipping name: ACETIC ACID SOLUTION
Transport hazard class(es): 8
Packing group: III
Environmental hazards: No
Special precautions for user:
Special Provisions: A803
ERG Code: 8L

IMDG:

UN number or ID number: UN2790
UN proper shipping name: ACETIC ACID SOLUTION (ACETIC ACID ...%)
Transport hazard class(es): 8
Packing group: III
Environmental hazards: No
Special precautions for user:
Special Provisions: None
EmS-No: F-A, S-B

Maritime transport in bulk according to IMO instruments: No information available

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RID:

UN number or ID number: UN2790
UN proper shipping name: ACETIC ACID SOLUTION
Transport hazard class(es): 8
Packing group: III
Environmental hazards: No
Special precautions for user:
Special Provisions: 597, 647
Classification code: C3

ADR:

UN number or ID number: UN2790
UN proper shipping name: ACETIC ACID SOLUTION
Transport hazard class(es): 8
Packing group: III
Environmental hazards: No
Special precautions for user:
Special Provisions: 597, 647
Classification code: C3
Tunnel restriction code: (E)

15. REGULATORY INFORMATION

Chemical safety assessment:

Chemical Safety Report: A Chemical Safety Assessment has been carried out for this substance.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.