

Acidklene

11194-0128

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

ACIDKLENE

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

Use of the substance/mixture

Disinfectant cleaning agent

1.3. Details of the supplier of the safety data sheet

Supplier

GEA Farm Technologies (UK) Ltd.
Wylle Works, Watery Lane, Bishopstrow,
GB Warminster, Wiltshire BA12 9Ht

Telephone: + 44 (0)1985 216444

For technical or commercial enquiries:

Tel: + 44 (0)1985 216444 Fax: + 44 (0)1985 216692

e-mail: info.geafarmtechnologies@geagroup.com

(8:00 - 16:00) Emergency Telephone No.

For advice on chemical emergencies, spillages, fires or First Aid
+44 (0) 870 190 6777 (GEA Farm Technologies)

Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone number: +44 (0) 870 190 6777 (GEA Farm Technologies)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

2.2. Label elements

Hazard components for labelling

Sulphuric acid

methanesulphonic acid

Hydrogen peroxide

Signal word: Danger

Pictograms: GHS05



Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe vapour/spray.

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

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

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

Additional advice on labelling

Classification and labelling according to Regulation (EC) No 1272/2008 Annex I paragraph 3.2.3.3.4.2 (pH value).

2.3. Other hazards

Not known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Aqueous solution

Hazardous components

EC No	Chemical name	Quantity
CAS No		
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
231-639-5	Sulphuric acid	15 - < 20 %
7664-93-9		
016-020-00-8	Skin Corr. 1A; H314	
01-2119458838-20		
200-898-6	methanesulphonic acid	5 - < 10 %
75-75-2		
	Met. Corr. 1, Skin Corr. 1B; H290 H314	
01-2119491166-34		
231-765-0	Hydrogen peroxide	5 - < 10 %
7722-84-1		
008-003-00-9	Ox. Liq. 1, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Aquatic Chronic 3; H271 H302 H332 H314 H412	
01-2119485845-22		

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove and wash contaminated clothing before re-use.
 Consult a physician.

After inhalation

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
 If you feel unwell, seek medical advice.

After contact with skin

Wash off immediately with soap and plenty of water.
 Consult a physician.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
 Summon a doctor immediately.
 Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting.
 Rinse out mouth and give plenty of water to drink.

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Never give anything by mouth to an unconscious person.
Summon a doctor immediately.

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

Causes severe skin burns and eye damage.

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

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO₂), sulphur oxides (SO_x) and phosphorus oxides (PO_x).

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Suppress gases/vapours/mists with water spray jet.

Use personal protective clothing.

Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. kieselguhr).

Shovel into suitable container for disposal.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed.

Keep a good ventilation and air-exhaust at the place of work.

Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

No special protective measures against fire required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Do not use aluminium or light metal containers for warehousing.

Keep containers tightly closed in a dry, well-ventilated place.

Advice on storage compatibility

Incompatible with bases.

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Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Disinfectant cleaning agent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7722-84-1	Hydrogen peroxide	1	1.4		TWA (8 h)	WEL
		2	2.8		STEL (15 min)	WEL
7664-93-9	Sulphuric acid (mist)	-	0.05		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls



Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothing before re-use.

Eye/face protection

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

Hand protection

Protective gloves resistant to chemicals made off natural-rubber latex, minimum coat thickness 0.6 mm, permeation resistance (wear duration) approx. 240 minutes, i.e. protective glove <Lapren 706> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Acid-resistant protective clothing. (EN 368/9)

Respiratory protection

No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless / Light beige
Odour:	faint
pH-Value (at 20 °C):	1,0 - 1,8 (5%)
Flash point:	n.a.

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Lower explosion limits:	n.a.
Upper explosion limits:	
Density (at 20 °C):	1,18 - 1,22 g/cm ³
Water solubility: (at 20 °C)	Completely miscible
Ignition temperature:	n.a.

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Bases.

Gives off hydrogen by reaction with metals.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

Reacts violently with water.

10.5. Incompatible materials

Bases.

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂), sulphur oxides (SO_x) and phosphorus oxides (PO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No toxicological data available.

Acute toxicity

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

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

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

STOT-single exposure

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

Severe effects after repeated or prolonged exposure

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

Aspiration hazard

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

Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

Practical experience

Other observations

Ingestion of aqueous solution causes gastrointestinal burns.

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Hazard of gastric perforation.

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SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects

Low hazard to waters.

A pH-change becomes possible in water.

Further information

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Disposal in accordance with local regulations.

Waste disposal number of waste from residues/unused products

020108 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING; wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing; agrochemical waste containing hazardous substances
Classified as hazardous waste.

Contaminated packaging

Should not be disposed of with household waste. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

Recommended cleaning agent: Water with detergents.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1.

UN number: UN 1760

14.2. **UN proper shipping name:**

CORROSIVE LIQUID, N.O.S. (Sulphuric acid, methanesulphonic acid)

14.3. **Transport hazard class(es):**

8

14.4. **Packing group:**

II

Hazard label:

I

8



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Classification code: C9
Special Provisions: 274
Limited quantity: 5 L
Transport category: 3
Hazard No: 80
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. **UN number:** UN 1760
14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Sulphuric acid, methanesulphonic acid)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Classification code: C9
Special Provisions: 274
Limited quantity: 5 L

Marine transport (IMDG)

14.1. **UN number:** UN 1760
14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (sulphuric acid, methanesulphonic acid)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: I



Special Provisions: 223, 274
Limited quantity: 5 L
EmS: F-A, S-B

Air transport (ICAO)

14.1. **UN number:** UN 1760
14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (sulphuric acid, methanesulphonic acid)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: I



Special Provisions: A3 A803

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Limited quantity Passenger: 1 L

:
IATA-packing instructions - Passenger:852
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo 856
IATA-max. quantity - Cargo: 60 L

14.5 Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practices.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): 0 %

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
IBC = Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
DIN = Deutsche Industrie Norm
PBT = Persistent Bioaccumulative and Toxic

LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Relevant H and EUH statements (number and full text)

H271 May cause fire or explosion; strong oxidiser.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

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H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The information in this Safety Data Sheet refer to the concentrate, not to the ready to use solution.

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)