SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Ättiksyra/Eddiksyre/Acetic Acid 100%

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

1.1 Product identifier Ättiksyra/Eddiksyre/Acetic Acid 100%

1.2 Relevant identified uses of the product and uses advised against

Intended use: Professional use. Electronics chemical.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Sunchem AB
Postadress: Box 69
SE - 433 21 Partille
Land: Sverige
Telefon +46-31-447310

E-mail: purchasing@sunco.se

1.4 Telephone emergency number:

In case of emergency, contact toxicological information, emergency tel 112.
For non-emergency poison information, see:
http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

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

Flammable Liquids (Category 3), H226
Skin Corrosion/irritation (Category 1B), H314
Serious eye damage/eye irritation (Category 1), H318

2.2 Label elements

Classification according to regulation (EC) No. 1272/2008 (CLP)

Pictogram(s)

Signal word Danger

Hazard statements

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

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260 Do not breathe vapours.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves and eye protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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 CENTER or doctor/physician.
P403 + P235 Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/ container in accordance with national regulations.

Contains Acetic acid (100 %)

2.3 Other hazards

This mixture does not contain any substances that meets the criteria for PBT or vPvB in accordance with Regulation (EC) No. 1907/2006, Annex XIII.

This mixture does not contain substances at ≥ 0,1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commision.

SECTION 3. Composition/information on ingredients

3.2 Mixtures

Declaration of components according to Regulation (EC) No. 1272/2008

Chemical name	CAS No. EC No.	REACH Reg. No. Index No.	Conc. %	Classification
Acetic acid	64-19-7 200-580-7	01-2119475328-30 607-002-00-6	99-100	Flam Liq 3; H226 Skin Corr 1A, H314

Specific concentration limits of classification (CLP):

Acetic acid
(10 =<C < 25) Eye Irrit. 2, H319
(10 =<C < 25) Skin Irrit. 2, H315
(25 =<C < 90) Skin Corr. 1B, H314
(C >= 90) Skin Corr. 1A, H314

For full text of the H-statements see section 16 "Other information".

SECTION 4. First aid measures

4.1 Description of first aid measures

General: In the least doubt or if symptoms persist, seek medical attention.

Inhalation: Call a poison center or a doctor if you feel unwell.

Skin contact: Wash with plenty of soap and water. Take off immediately all contaminated clothing. Get medical attention if any discomfort continues. Chemical burns must be treated by a physician. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor if skin burns.

Eye contact: Get medical advice/attention if you feel unwell. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion: DO NOT induce vomiting. Get medical attention immediately. Rinse nose, mouth and throat with water. Drink plenty of water. Get medical attention immediately!. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Causes severe skin burns and eye damage.
Symptoms/effects after eye contact : Causes serious eye damage.
Symptoms/effects after ingestion : If ingested may cause corrosion of gastrointestinal tract.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment. Consult a doctor and show this safety data sheet.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use water fog, alcohol resistant foam, powder, or carbon dioxide.

Unsuitable extinguishing media: Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour.

5.3 Advice to firefighters

Vapours may form explosive mixture with air.
Hazardous decomposition products: Highly corrosive gases, vapours, fumes, acetic acid.

Protection during firefighting	: Wear self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

See section 8 for recommendations on the use of personal protective equipment. Avoid contact with skin, eyes and clothes. Keep unprotected persons away. Ensure adequate ventilation, especially in confined areas. Do not breathe vapours. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take action to prevent static discharges.

6.2 Environmental precautions

Avoid discharges to soil, water or air. Prevent discharges into sewers.

6.3 Methods and material for containment and cleaning up

Small spills: wipe up with absorbent material (e.g. cloth, fleece).
Large spills: Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in suitable closed container for disposal, according to local regulations. The product is flammable, use non-sparking tools/equipment. Never return spills to original containers for re-use. Then rinse the spillage site with plenty of water. Dispose of in accordance with section 13.

6.4 Reference to other sections

See Section 8 for personal protection and Section 13 for disposal considerations, respectively.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Store as a flammable and corrosive product. Empty containers retain product residues and can therefore be dangerous. See section 8 for recommendations on the use of personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapour/mist. Wash hands and other exposed parts with mild soap and water before eating, drinking, smoking or leaving the workplace. Provide adequate ventilation of the work area. Use only outdoors or in a wellventilated area. Ground and bond container and receiving equipment. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take action to prevent static discharges. Use non-sparking tools/equipment.

Hygiene measures:
Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Comply with applicable regulations.
Keep cool. Protect from sunlight. Store in a dry place. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materilas: Bases. Strong alkali compounds. Strong acids.

7.3 Specific end use(s)

See Section 1.2.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits
The national occupational exposure limit values that correspond to Union occupational exposure limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(3) of Commission Decision 2014/113/EU(5);

Substances	ppm	mg/m^3	Interval	Category	Notes
Acetic acid	10	25	8 hours	TWA	
Acetic acid	20	50	15 minutes	STEL	

DNEL

Workers,Inhalation, long-term, local 25 mg/m³
Workers, Inhalation, short-term, local 25 mg/m^3

8.2 Exposure control

Assigned personal protection equipment is a guideline. A risk assessment of actual risks may lead to other requirements.

8.2.1 Engineering controls

Work in a well-ventilated area. Mechanical ventilation of local exhaust may be required.

8.2.2 Personal protection

Do not eat, drink or smoke when using this product. Wash hands after handling.

8.2.2.1 Eye protection

Wear protective googles according EN standard 166.

8.2.2.2 Hand protection

Use protective gloves according EN standard 374. Recommended glove barrier materials include nitrile rubber and butyl rubber:
Layer thickness : >0,40mm. Breakthrough time : 240 >480min.

Skin protection

In case of handling large quantities or in the event of spatter, wear protective clothes, i.e. an apron.

8.2.2.3 Respiratory protection

In case of inadequate ventilation, respiratory protection according EN standard 149 (full-face mask with gas filter type A/E, gul) or breathing apparatus may be required.

8.2.2.4 Thermal hazard

Flammable liquid and vapour.

8.3 Environmental exposure control

See Section 6.2.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a	**Physical state**	Liquid
b	**Colour**	Colourless
c	**Odour/odour threshold**	Stinging/acetic acid
d	**Melting point/Freezing point**	No data available/not applicable
e	**Initial boiling point/boiling range**	118°C
f	**Flammability (solid, gas)**	Flammable liquid and vapour
g	**Lower and upper explosion limit**	No data available/not applicable
h	**Flash point**	39°C
i	**Auto-ignition temperature**	485°C
j	**Decomposition temperature**	No data available/not applicable
k	**pH**	2,4
l	**Kinematic viscosity**	1,22 mPa*s (20°C)
m	**Solubility**	Very soluble in water
n	**Partition coefficient (n-octanol/water)**	No data available/not applicable
o	**Vapour pressure**	77 hPa
p	**Density and/or relative density**	1,07 g/cm^3
q	**Relative vapour density**	No data available/not applicable
r	**Particle characteristics**	No data available/not applicable

9.2 Other information

No more specific or information about safety characteristics.

SECTION 10. Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use and storage. Thermal decomposition produces: Corrosive vapors.

10.2 Chemical stability

Stable under recommended storage and usage conditions. Flammable liquid and vapour.
Vapours may form explosive mixture with air.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Avoid exposure to high temperatures or direct sunlight and sparks. Avoid heat, flames and other sources of ignition. Extremely high and low temperatures.

10.5 Incompatible materials

Bases. Strong alkali compounds. Alkaline metals. Fluorides. Strong oxidizing agents. Reducing substances. Can attack light metals and release hydrogen gas. Strong acids.

10.6 Hazardous decomposition products

During fire or high temperatures, carbon monoxide (CO) may be formed. Corrosive vapours. Flammable vapours.

SECTION 11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological tests have been performed on the product. The product is not classified as harmful.

Estimated value of **ATE**:
ATE oral: > 2000 mg/kg

General toxicological information

Hazardous components CAS no.	Value Type	Value	Route of exposure	Exposure time	Species	Method
Acetic acid	LD50	3310 mg/kg	Oral		Rat	

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity:	Not classified
Skin corrosion/irritation:	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation:	Causes serious eye damage (pH: 2,4).
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT – single exposure:	Not classified
STOT – repeated exposure:	Not classified
Aspiration hazard:	Not classified

11.2 Information on other hazards

This mixture does not contain substances at ≥ 0,1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commision.

SECTION 12. Ecological information

12.1 Toxicity

Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms. Not regarded as dangerous to the environment. This does not, however, rule out the possibility that large or frequent smaller emissions of the product may be harmful to the environment.

Hazardous components CAS no.	Value Type	Value	Route of Exposure	Exposure Time	Species	Method
Acetic acid	LC50	79 mg/l	Vatten	96 h	Fish	
Acetic acid	LC50	65 mg/l	Vatten	48 h	Daphnia	

12.2 Persistence and degradability

Components are biodegradable

12.3 Bioaccumulative potential

Acetic acid: > 60 % (28 days, method: OECD 301C)

Acetic acid	Log Pow	-0,23

12.4 Mobility in soil

Components are water soluble and may spread in water system and soil.

12.5 Results of PBT and vPvB assessment

The substance/mixture does not fulfil the criteria to be identified as PBT substance or vPvB substance.

12.6 Endocrine disrupted properties

This mixture does not contain substances at ≥ 0,1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commision.

12.7 Other adverse effects

No data available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Dispose according to Directive 2008/98/EC on waste (Waste Framework Directive) and in compliance with local and national legislation. Do not allow to enter sewers. Transfer to a waste container and send for destruction.

Packaging may still contain hazardous residues and disposal should be undertaken by a licensed waste contractor. Any disposal practice must comply with local and national laws and regulations.

Suggested EWC codes

06 01 06* - other acids

SECTION 14. Transport information

14.1 UN number

ADR	2790
RID	2790
IMDG	2790
ICAO/IATA	2790

14.2 UN proper shipping name

ADR	ACETIC ACID, SOLUTION
RID	ACETIC ACID, SOLUTION
IMDG	ACETIC ACID, SOLUTION
ICAO/IATA	ACETIC ACID, SOLUTION

14.3 Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
ICAO/IATA	8

14.4 Packaging group

ADR	II
RID	II
IMDG	II
ICAO/IATA	II

14.5 Environmental hazards

ADR	NO
RID	NO
IMDG	NO
ICAO/IATA	NO

14.6 Special precautions for user

Tunnel restriction code	E
Limited quantities, ADR	1L

14.7 Maritime transport in bulk according to IMO instruments.

Not applicable.

SECTION 15. Regulatory information

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

Regulation (EC) No 1272/2008 (CLP) of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures. Latest update of legal requirements 23/10/2024 of CLP regulation.

Regulation (EC) No 1907/2006 (REACH) of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EU) 2020/878 of the European Commission, supplement for REACH appendix II.

The national occupational exposure limit values that correspond to Union occupational exposure limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(3) of Commission Decision 2014/113/EU(5); EH40/2005: Workplace exposure limits updates 2020.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Version: 4.0
New EU regulations (REACH/CLP) according SDS content/sections/tables and new SDS from raw data.

Explanations to abbreviations in Section 3

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Explanations to abbreviations in Section 14

ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
RID	Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by rail)
IMDG	IMDG code (International Maritime Dangerous Goods Code)
ICAO	International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA	International Air Transport Association

This safety data sheet has been produced and reviewed by Chemgroup Scandinavia AB.