

Acetic acid diluted 30%

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of issue: 11/04/2014 Revision date: 07/03/2017

245712

Version: 2.0

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

1.1. Product identifier

Product form : Substance
Substance name : Acetic acid diluted 30%
EC Index No : 607-002-01-3
EC No : 200-580-7
CAS No : 64-19-7
Product code : 245712
Synonyms : Acetic acid 30%
Product group : Blend

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

1.2.1. Relevant identified uses

Main use category : Pharmaceutical
Industrial/Professional use spec : Industrial
For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Duchefa Farma BV
A. Hofmanweg 71
2031BH Haarlem - Nederland
T +31(0)23-5319093
farma@ducheffa.nl - www.duchefa-farma.com

1.4. Emergency telephone number

Emergency number : Supplier contact information:
+31(0)23-5319093 (M-F 09:00-17:00)
+31(0)6-30109355 (outside office hours)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Centre Hospitalier Universitaire de Constantine	Avonley Road SE14 5ER London	0870 243 2241	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1C

H314

Acetic acid diluted 30%

245712

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)

:



GHS05

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H314 - Causes severe skin burns and eye damage

Precautionary statements (CLP)

: P280 - Wear protective gloves, protective clothing, face shield, eye protection
P301 - IF SWALLOWED: Rinse mouth
P330 - Rinse mouth
P331 - Do NOT induce vomiting
P305 - IF IN EYES: Rinse cautiously with water for several minutes
P351 - Rinse cautiously with water for several minutes
P338 - Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P353 - Rinse skin with water/shower

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type

: Pharmaceuticals

Name

: Acetic acid diluted 30%

CAS No

: 64-19-7

EC No

: 200-580-7

EC Index No

: 607-002-01-3

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Purified water	(CAS No) 7732-18-5 (EC No) 231-791-2	70	Not classified
acetic acid ... %	(CAS No) 64-19-7 (EC No) 200-580-7 (EC Index No) 607-002-00-6	30	Flam. Liq. 3, H226 Skin Corr. 1A, H314

Specific concentration limits:

Name	Product identifier	Specific concentration limits
acetic acid ... %	(CAS No) 64-19-7 (EC No) 200-580-7 (EC Index No) 607-002-00-6	(10 =<C < 25) Skin Irrit. 2, H315 (10 =<C < 25) Eye Irrit. 2, H319 (25 =<C < 90) Skin Corr. 1B, H314 (C >= 90) Skin Corr. 1A, H314

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Remove/Take off immediately all contaminated clothing.
First-aid measures after inhalation	: Allow the victim to rest. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. After contact with skin, wash immediately with plenty of propylene glycol 400 (Roticlean).
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a doctor immediately, even if there are no immediate symptoms.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Drink plenty of water. If the person is fully conscious give him/her medically activated charcoal to drink. Never give an unconscious person anything to drink. Assure fresh air breathing. Laxative: Sodium sulfate (1 tbs in 1 cup water) to drink with plenty of charcoal.

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

Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	: Irritation of the respiratory tract and the other mucous membranes. Aspiration of this material may cause chemical pneumonia. Bronchitis. Risks of oedema and respiratory failure. Acetic acid vapors are present in concentrations from 25 ml/m3 highly irritating to the mucous membranes of the eyes and respiratory tract, leaving no permanent damage.
Symptoms/injuries after ingestion	: Severe irritation or burns to the mouth, throat, oesophagus, and stomach. perforation of the esophagus and stomach. Stomach cramps, bloody vomiting, shortness of breath. Risk of aspiration pneumonia. Shock.

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

20 to 50 g of pure acid are life threatening.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Alcohol resistant foam. Dry powder. Carbon dioxide. Water spray. For large fire: Water.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Combustible. Vapours are heavier than air.
Explosion hazard	: Dust may form explosive mixture in air.
Reactivity in case of fire	: On burning: release of corrosive gases/vapours (acetic acid vapours). Undamaged Packaging: Heating leads to pressure increase risk of bursting!.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Use ventilation/water spray/fog to disperse vapours.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Ensure adequate ventilation. Keep away from ignition sources. Avoid any direct contact with the product. Do not breathe gas/fumes/vapour/spray.

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

Reference to other sections (8, 13).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Only acid-proof and explosion-proof equipment / devices use / equipment. Electrical installation checked regularly because of the increased risk of corrosion.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well-ventilated place.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.
- Storage temperature : room temperature
- Storage area : VCI storage class: 8.
- Packaging materials : Stainless steel.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

PEAK : Category I

8.2. Exposure controls**Personal protective equipment:**

Avoid all unnecessary exposure.

Hand protection:

Type	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

Eye protection:

Safety glasses (to European standard EN 166 or equivalent)

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Colour	: Colourless.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: strongly acidic
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: - 8 °C
Freezing point	: No data available
Boiling point	: 101 - 117 °C
Flash point	: 61 °C
Auto-ignition temperature	: 485 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Combustible
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.07 g/cm ³ 20 ° C
Solubility	: completely miscible with water.
Log Pow	: - 0.31 waterfree substance
Viscosity, kinematic	: No data available

Acetic acid diluted 30%

245712

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Viscosity, dynamic : No data available
Explosive properties : not explosive. Vapour mixes readily with air, forming explosive mixtures.

Oxidising properties : No data available
Explosive limits : 4 - 17 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Corrosive to metals. Base metals and alloys. Light metals. development of hydrogen.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Anhydride / water. Aldehydes. alcohols. Halogen-halogen compounds. Alkali metals. Alkaline earth metals. Oxidizing agents. Nonmetal halides. Alkalis, finely divided metals. Ethanolamine.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Acetic acid diluted 30% (64-19-7)	
LD50 oral rat	3310 mg/kg
LD50 dermal rabbit	1060 mg/kg oral 600 mg/kg rab
Additional information	LDLo inhalativ/15min. 5620 ppm mou

Skin corrosion/irritation : Caustic effect on skin and mucous membranes. The good lipid solubility promotes rapid penetration of the skin depth effect
pH: strongly acidic

Additional information : Causes severe skin burns and eye damage

Serious eye damage/irritation : Can cause blindness
pH: strongly acidic

Additional information : Causes severe skin burns and eye damage

Respiratory or skin sensitisation : Not classified

Additional information : Irritating to respiratory system

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Acetic acid diluted 30%

245712

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acetic acid diluted 30% (64-19-7)	
LC50 fish 1	410 mg/l Gold orfe
EC50 Daphnia 1	27 mg/l 24 h
Pseudomonas putida	2850 mg/l
Scenedesmus quadricauda	4000 mg/l

12.2. Persistence and degradability

Acetic acid diluted 30% (64-19-7)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Acetic acid diluted 30% (64-19-7)	
Log Pow	- 0.31 waterfree substance
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: WASTES FROM ORGANIC CHEMICAL PROCESSES. wastes from the MFSU of pharmaceuticals.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Behaviour in sewage plant: eliminated. BOD5: 0.88 g / g BOD 36% of ThSB/5d.
Ecology - waste materials	: Avoid release to the environment.

Acetic acid diluted 30%


245712

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 14: Transport information

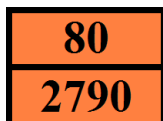
In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IATA
14.1. UN number	
2790	2790
14.2. UN proper shipping name	
ACETIC ACID SOLUTION	Not applicable
14.3. Transport hazard class(es)	
8	8
	Not applicable
14.4. Packing group	
III	Not applicable
14.5. Environmental hazards	
Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available	

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C3
Special provisions (ADR) : 597, 647
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : •2R

- Air transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Acetic acid diluted 30% is not on the REACH Candidate List

Acetic acid diluted 30% is not on the REACH Annex XIV List

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

1.4	Emergency telephone	Modified	Added additional information
2	Classification (DSD/DPD)	Removed	Obsolete
8.2	Hand protection	Modified	Specified material, thickness, et cetera of gloves

Abbreviations and acronyms:

SDS	Safety Data Sheet
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : REACH Disclaimer:
This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

Full text of H- and EUH-statements:

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

SDS EU (REACH Annex II) Version 2017

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Acetic acid diluted 30%

245712

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
