

**SECTION1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product code : ACIDO ACETICO 80 % REACH N. 01-2119475328-30

Trades code : 100100

Chemical Name: Acetic acid 80 % CAS: 64-19-7 - EC No: 200-580-7 - Index No: 607-002-00-6 - REACH: 01-2119475328-30

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

Photographic Process

Sectors of use:

Professional use[SU22]

Product category:

Photochemicals

Process categories:

Mixing or blending in batch processes for formulation of preparations\* and articles (multistage and/or significant contact)[PROC5]

Uses advised against

Do not use for purposes other than those listed

**1.3. Details of the supplier of the safety data sheet**

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**1.4. Emergency telephone number**

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**SECTION2. Hazards identification**

**2.1. Classification of the substance or mixture**

CAS 64-19-7 CEE 607-002-00-6 EINECS 200-580-7 REACH 01-2119475328-30

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS05

Hazard Class and Category Code(s):

Skin Corr. 1, Eye Dam. 1

Hazard statement Code(s):

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

Corrosive product: causes severe skin burns and eye damage.

If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

**2.2. Label elements**

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS05 - Danger

Hazard statement Code(s):

H314 - Causes severe skin burns and eye damage.



Supplemental Hazard statement Code(s):  
not applicable

Precautionary statements:

Prevention

P260 - Do not breathe dust, fume, gas, mist, vapours, spray.

P264 - Thoroughly wash clothing after use.

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

Response

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 [or 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 doctor if symptoms persist

Disposal

P501 - Dispose of contents and container in accordance with the laws in force

Contains:

Acetic acid 80 %

### 2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII  
The use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with Dlgs. April 9, 2008 # 81. Workers exposed to this chemical agent should not be subjected to health surveillance if the results of the risk assessment show that, in relation to the type and quantity of hazardous chemical agent and that agent exposure frequency and mode, you just a "moderate risk" for the health and safety of workers and that the measures laid down in the decree are sufficient to reduce the risk.

## SECTION3. Composition/information on ingredients

### 3.1 Substances

Refer to paragraph 16 for full text of hazard statements

Note B - Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACH
Acetic acid 80 % Note: B	>= 60 < 90%	Skin Corr. 1A, H314	607-002-00-6	64-19-7	200-580-7	01-2119475 328-30

### 3.2 Mixtures

Irrilevant

## SECTION4. First aid measures

### 4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.

In case of contact with skin, wash immediately with water.

Consult a physician immediately

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.  
Ingestion:

Drink water with egg white; do not give bicarbonate.

Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

If ingested, it causes severe burns to the mouth and throat, as well as perforation of the esophagus and stomach.

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

Immediately call a doctor if symptoms persist

### **SECTION 5. Firefighting measures**

#### **5.1. Extinguishing media**

Advised extinguishing agents:

Water spray, CO<sub>2</sub>, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

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

No data available.

#### **5.3. Advice for firefighters**

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

### **SECTION 6. Accidental release measures**

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

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

#### **6.2. Environmental precautions**

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the the authorities.

Discharge the remains in compliance with the regulations

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

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

**6.4. Reference to other sections**

Refer to paragraphs 8 and 13 for more information

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors  
Wear protective gloves protective clothing eye protection face protection.  
In residential areas do not use on large surfaces.  
At work do not eat or drink.  
See also paragraph 8 below.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep in original container closed tightly. Do not store in open or unlabeled containers.  
Keep containers upright and safe by avoiding the possibility of falls or collisions.  
Store in a cool place, away from sources of heat and direct exposure of sunlight.

**7.3. Specific end use(s)**

Professional use:  
Photographic and cinematographic treatment

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

Related to contained substances:  
Acetic acid 80 %:  
ACETIC ACID ...%; No. CAs: 64-19-7  
Type of limit value (country of origin): TWA (EC)  
Limit value: 10 ppm/25 mg/m<sup>3</sup>  
- Substance: Acetic acid 80 %  
DNEL  
Systemic effects Long term Workers inhalation = 25 (mg/m<sup>3</sup>)  
Systemic effects Long term Consumers inhalation = 25 (mg/m<sup>3</sup>)  
Systemic effects Short term Workers inhalation = 25 (mg/m<sup>3</sup>)  
Systemic effects Short term Consumers inhalation = 25 (mg/m<sup>3</sup>)  
PNEC  
Sweet water = 3,058 (mg/l)  
sediment Sweet water = 11,36 (mg/kg/sediment)  
Sea water = 0,3058 (mg/l)  
sediment Sea water = 1,136 (mg/kg/sediment)  
intermittent emissions = 30,58 (mg/l)  
STP = 85 (mg/l)  
ground = 0,47 (mg/kg ground)

**8.2. Exposure controls**

Appropriate engineering controls:

Professional use:

Not established

Individual protection measures:

(a) Eye / face protection

Wear mask

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Use adequate protective respiratory equipment (EN 14387:2008)

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Related to contained substances:

Acetic acid 80 %:

For the selection of suitable gloves more, see the class that owns the pericolosit preparation (section 2), refer to the risk assessment carried out by you and, where appropriate, see also the supplier of choice for the most protective material appropriate. Avoid contact with skin when handling the substance / preparation or a mixture of protective gloves and protective clothing appropriate to the risk of 'transaction. Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact:

Material Thickness

Nitrile rubber curing time > = 0.38 mm > 480 min

Neoprene > = 0.65 mm > 240 min

Butyl rubber > = 0.36 mm > 480 min

Do not get this chemical enter the environment.

## SECTION 9. Physical and chemical properties

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

Physical and chemical properties	Value	Determination method
Appearance	Liquid	
Odour	Light of vinegar	
Odour threshold	undefined	
pH	2,4 (Sol.ne acquosa 1 M)	pH METRO
Melting point/freezing point	Irrilevant	
Initial boiling point and boiling range	Not determined	
Flash point	non flammable	ASTM D92
Evaporation rate	Irrilevant	
Flammability (solid, gas)	Irrilevant	
Upper/lower flammability or explosive limits	undefined	
Vapour pressure	Not determined	
Vapour density	Not determined	
Relative density	1.080 ± 0.010 a 25 °C	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	Irrilevant	
Auto-ignition temperature	Not determined	
Decomposition temperature	Not determined	
Viscosity	not determined	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

### 9.2. Other information

No data available.

## SECTION 10. Stability and reactivity

**10.1. Reactivity**

Related to contained substances:

Acetic acid 80 %:

The corrosive product, can lead to dangerous reactions.

**10.2. Chemical stability**

The product is stable under normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

Reacts with strong oxidants. Alkali.

**10.4. Conditions to avoid**

Related to contained substances:

Acetic acid 80 %:

Keep away from flames, sparks and other sources of ignition.

**10.5. Incompatible materials**

Bases-strong oxidizing agents-Chromic Acid-Nitric Acid-sodium Carbonate peroxide  
Hydroxides-Phosphates-corrosive to some metals.

**10.6. Hazardous decomposition products**

Formation of carbon oxides.

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**

ATE oral = ∞

ATE dermal = ∞

ATE inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met.

(b) skin corrosion/irritation Corrosive product: causes severe skin burns and eye damage.

Acetic acid 80 %: Skin irritation (OECD 404): irritant (rat)

(c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage. - If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

Acetic acid 80 %: Eye irritation (OECD 405): corrosive (determined on rabbit eyes)

(d) respiratory or skin sensitization: Acetic acid 80 %: No sensitizing effects known.

(e) germ cell mutagenicity: Acetic acid 80 %: No known mutagenic, carcinogenic or reprotoxicants.

(f) carcinogenicity: Acetic acid 80 %: No known mutagenic, carcinogenic or reprotoxicants.

(g) reproductive toxicity: Acetic acid 80 %: Parameter: NOAEL (fetal development) (acetic acid ...%; No. CAs: 64-19-7)

Route of exposure: rabbit

Effective dose: 1600 mg/kg bw/day

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.

(j) aspiration hazard: based on available data, the classification criteria are not met.

ACIDO ACETICO 80 %:

LD50 (rat) Oral (mg/kg body weight) = 3530

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 4960

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 5620

Related to contained substances:

Acetic acid 80 %:

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

Acute oral toxicity (LD50): 9194 mg/kg (Rat) (Calculated value for the mixture).

Acute dermal toxicity (LD50): 2944 mg/kg (Rabbit) (Calculated value for the mixture).

**Chronic Effects on Humans:**

**MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells. [Acetic acid]. Mutagenic for bacteria and/or yeast. [Acetic acid].

Contains material which may cause damage to the following organs: kidneys, mucous membranes, skin, teeth.

**Other Toxic Effects on Humans:**

Extremely hazardous in case of inhalation (lung corrosive).

Very hazardous in case of skin contact (irritant), of ingestion, .

Hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:**

May affect genetic material and may cause reproductive effects based on animal data. No human data found.

(Acetic acid)

**Special Remarks on other Toxic Effects on Humans:****Acute Potential Health Effects:**

**Skin:** Extremely irritating and corrosive. Causes skin irritation (reddening and itching, inflammation). May cause blistering , tissue damage and burns.

**Eyes:** Extremely irritating and corrosive. Causes eye irritation, lacrimation, redness, and pain. May cause burns, blurred vision, conjunctivitis, conjunctival and corneal destruction and permanent injury.

**Inhalation:** Causes severe respiratory tract irritation. Affects the sense organs (nose, ear, eye, taste), and blood.

May cause chemical pneumonitis, bronchitis, and pulmonary edema. Severe exposure may result in lung tissue damage and corrosion (ulceration) of the mucous membranes. Inhalation may also cause rhinitis, sneezing, coughing, oppressive feeling in the chest or chest pain, dyspnea, wheezing, tachypnea, cyanosis, salivation, nausea, giddiness, muscular weakness.

**Ingestion:** Moderately toxic. Corrosive. Causes gastrointestinal tract irritation (burning and pain of the mouth, throat, and abdomen, coughing, ulceration, bleeding, nausea, abdominal spasms, vomiting, hematemesis, diarrhea. May Also affect the liver (impaired liver function), behavior (convulsions, giddines, muscular weakness), and the urinary system - kidneys (Hematuria, Albuminuria, Nephrosis, acute renal failure, acute tubular necrosis). May also cause dyspnea or asphyxia. May also lead to shock, coma and death.

**Chronic Potential Health Effects:**

Chronic exposure via ingestion may cause blackening or erosion of the teeth and jaw necrosis, pharyngitis, and gastritis. It may also behavior (similar to acute ingestion), and metabolism (weight loss).

Chronic exposure via inhalation may cause asthma and/or bronchitis with cough, phlegm, and/or shortness of breath . It may also affect the blood (decreased leukocyte count), and urinary system (kidneys).

Repeated or prolonged skin contact may cause thickening, blackening, and cracking of the skin. (Acetic acid)

LD50 (rat) Oral (mg/kg body weight) = 3530

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 4960

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 5620

**SECTION12. Ecological information****12.1. Toxicity**

Related to contained substances:

Acetic acid 80 %:

LC50: Oncorhynchus mykiss Fish &gt; Value mg/l for 300.82. test: 96 h

EC50 Daphnia: Daphnia magna &gt; Value mg/l for 300.82. test: 48 h

Alga Skeletonema costatum EC50: &gt; Value mg/l for 300.82. test: 72 h

Use according to good working practices to avoid pollution into the environment.

**12.2. Persistence and degradability**

Biodegrades, aerobically and anaerobically, both in water and on the ground.

Carboxylic acids are generally resistant to hydrolysis in aqueous medium.

**12.3. Bioaccumulative potential**

Has low potential for bioconcentration

**12.4. Mobility in soil**

Mobility has ground between moderate and very high. Pu volatilize from the soil.

Do not evaporate from damp and wet. There is atmosphere in vapour phase.

**12.5. Results of PBT and vPvB assessment**

No PBT/vPvB ingredient is present

**12.6. Other adverse effects**

Information not available.

**SECTION13. Disposal considerations****13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

**SECTION14. Transport information****14.1. UN number**

ADR/RID/IMDG/ICAO-IATA: 2790

ADR exemption because compliance with the following characteristics:

Combination packagings: per inner packaging 5 L per package 30 Kg

Inner packagings placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg

**14.2. UN proper shipping name**

ADR/RID/IMDG: ACIDO ACETICO IN SOLUZIONE

ADR/RID/IMDG: ACETIC ACID SOLUTION

ICAO-IATA: ACETIC ACID SOLUTION

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

ADR/RID/IMDG/ICAO-IATA: Class : 8

ADR/RID/IMDG/ICAO-IATA: Label : Limited quantities

ADR: Tunnel restriction code : E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L

IMDG - EmS : F-A, S-B

**14.4. Packing group**

ADR/RID/IMDG/ICAO-IATA: III

**14.5. Environmental hazards**

ADR/RID/ICAO-IATA: Product is not environmentally hazardous

IMDG: Marine polluting agent : Not

**14.6. Special precautions for user**

The transport must be carried out by authorised vehicles carrying dangerous goods in accordance with the requirements of the current edition of the agreement A.D.R. applicable national provisions.

The transport must be carried out in the original packaging and in packages that are made from materials resistant to the content and not likely to generate with this dangerous reactions. Employees to the loading and unloading of dangerous goods have received proper training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

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

It is not intended to carry bulk



**SECTION15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Legislative Decree. 02/03/1997 n. 52 (Classification, packaging and labeling of dangerous substances). Legislative Decree 14/03/2003 n. 65 (Classification, packaging and labeling of dangerous substances). Legislative Decree. 02/02/2002 n. 25 (Risks related to chemical agents at work). D.M. 26/02/2004 Work (Exposure Limits Professional); D.M. 03/04/2007 (Implementation of Directive n. 2006/8 / EC). Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), Regulation (EC) 790 / 2009.D.Lgs. September 21, 2005 n. 238 (Seveso Ter).  
REGULATION (EU) No 1357/2014 - waste:  
HP8 - Corrosive

**15.2. Chemical safety assessment**

The supplier has made an assessment of chemical safety

**SECTION16. Other information****16.1. Other information**

Points modified compared to previous release: 2.3. Other hazards, 10.4. Conditions to avoid, 12.5. Results of PBT and vPvB assessment

Description of the hazard statements exposed to point 3

H314 = Causes severe skin burns and eye damage.

Main normative references:

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

Regolamento529/2012 and subsequent updates

This data sheet cancels and replaces any previous edition.