

ACIDGLASS C2

1. Identification of substance/mixture and of the Company/Undertaking

1.1: Product identifier

Product name : ACIDGLASS C2
Product number: 901117

1.2: Relevant identified uses of the substance/mixture and uses advised against

Identified uses: Phosphate-free acid neutralizer for professional instrument washers

1.3: Details of the supplier of safety data sheet

Manufacturer/Supplier: SMEG s.p.a.
Via Leonardo da Vinci 4,
42016 – GUASTALLA
ITALIA
Telephone: +39-0522-8211
Fax: +39-0522-821592
E-mail address: chemicals@smeg.it

1.4: Emergency telephone number

Emergency phone #: National Poison Centre: +39 02-66101029 (CAV Niguarda – MILAN)

2. Hazard identification

2.1: Classification of the substance or mixture

Classification according to Regulation CE 1272/2008 (CLP):
Eye Irrit. 2

2.2 Label elements:

Labelling according to Regulation CE n.1272/2008 (CLP)



Pictogram

Signal word Warning

Hazard statements
H319 Causes serious eye irritation.

Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P337+P313 If eye irritation persists get medical advice/attention.

2.3 Other hazards

Citric acids solutions are considerate of means force react with oxidants and bases, can attack metals.

3. Compostion / Information on ingredients

Content :

CE Nr	CAS Nr	Name	Quantity	labelling
201-069-1	5949-29-1	Citric acid monohydrate	45-60%	Eye Irrit. 2; H319

Where

H319 Causes serious eye irritation.

4. First aid measures

4.1. Description of first aid measures

General information

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for several minutes. Remove contact lenses only if easily implemented. Consult a physician immediately.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

If inhaled

Cough, shortness of breath, sore throat.

In case of contact with skin

redness

In case of contact with eyes

Redness, pain

Swallowing

Abdominal pain, sore throat.

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

Immediate medical attention in case of strong inhalation (the product but has negligible evaporation at 20 °C), of eye contact and ingestion.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical (powder) or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Avoid breathing products of combustion. It may produce toxic fumes of carbon monoxide in the event of combustion. The citric acid decomposes at about 175 °C.

5.3. Advice for firefighters

Wear, in case of fire, protective respiratory with independent air supply.
Use safety measures as described in sections 7 and 8.

5.4. Additional information

No data available

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment (gloves, goggles and protective clothing). Ventilate the premises.
See section 8 for personal protective equipment.

6.2 Environmental precautions

Keep the mixture away from drains. Dispose of the substance into the drains, surface water and groundwater.

6.3 Methods and materials for containment and cleaning up

Collect with absorbent materials (sand, diatomaceous earth). Sweep up and shovel. Keep in suitable, closed containers for waste disposal.

6.4 Reference to other sections

For disposal see section 13.

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

When handling use protective glasses in order to avoid contact with eyes, use gloves

Protective nitrile.

Handle the mixture away from drains.

Do not eat, drink and / or smoke in work areas.

Wash hands after use.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Store in tightly closed in a dry and ventilated. Do not store to direct sunlight / UV.

Keep away from strong oxidants, strong bases, metal nitrates and metals.

Keep away from heat sources.

Keep product away from food and feed.

7.3. Specific end uses

Detergent for professional automated washing

8. Exposure controls/personal protection**8.1. Control parameters****Components with exposure limits**

For citric acid has not been established, the date of preparation of this document, a threshold limit value for occupational exposure.

8.2. Exposure controls**Appropriate engineering controls**

Handle in accordance with good safety practice. Wash hands after use. Ensure good ventilation of the workplace by means of an effective local intake system

Protective and hygiene measures**Eye/face protection**

Safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Protection for immersion and splash

Full contact and splash contact: nitrile rubber gloves of a minimum thickness of 0.11 mm Breakthrough time: equal to 480 minutes.

If used in solution, or mixed with other substances, and under conditions other than those mentioned in EN 374,

contact the supplier of CE approved gloves. This recommendation applies by way of advice and must be assessed by an industrial hygienist and a security officer aware of the specific situation. Do not mistake as an endorsement of a specific exposure scenario.

Body Protection

Chemicals protection clothing. Remove/Take off all contaminated clothing.

Respiratory protection

If the risk assessment shows the need for air-purifying respirators, use a full face mask with combined filter type ABEK (EN 14387) as a backup to engineering. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved bodies standards such as NIOSH (US) and the CEN (EU).

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

a.	Appearance:	Physical state: liquid Color: colorless / light yellow
b.	Smell:	Recognizable, characteristic
c.	Odour threshold:	No data available
d.	pH:	2.5 to 3.5
e.	Freezing point:	No data available
f.	Initial boiling point and boiling range:	No data available
g.	Flash point:	No data available
h.	Evaporation rate:	No data available
i.	Flammability (solid, gas)	Not applicable as liquid
j.	Upper / lower flammability or explosive limits:	No data available
k.	Vapour pressure:	No data available
l.	Vapor density:	No data available
m.	Relative density:	1.19 ÷ 1.21 g / cm ³
n.	Solubility:	Soluble in water in all relationships
o.	Partition coefficient (n-octanol / water):	No data available
p.	Ignition temperature:	No data available
q.	Decomposition temperature:	175 °C (for citric acid)
r.	Viscosity:	No data available
s.	Explosive properties:	No data available
t.	Oxidizing properties:	No data available

9.2. Other information

Data not available

10. Stability e reactivity

10.1 Reactivity

The mixture reacts with strong oxidants, strong bases and can attack metals.

10.2 Chemical stability

Stable under normal conditions (see recommended handling and storage conditions as in section 7).

10.3 Possibility of hazardous reactions

Under normal use and storage conditions, hazardous reactions are not predictable (respecting the conditions as in section 7)..

10.4 Conditions to avoid

Open flames, high temperatures.

10.5 Incompatible materials

Metals

10.6 Hazardous decomposition products

Under normal conditions of handling, use and storage (item 7), it is not reasonably expected to form of products of decomposition.

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

Since the data related to the mixture are not available, information related to the single components are herein reported.

Acute toxicity

Oral LD 50 – Rat – 5.400 mg/kg

Dermal LD 50 – Rat – > 2.000 mg/kg

Skin corrosion/irritation

Skin - rabbit on

Result: Mild skin irritation

Serious eye damage/eye irritation

Eyes - rabbit on

Result: Eye irritation

Respiratory or skin sensitisation

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity (STOT) - single exposure

No data available

Specific target organ toxicity (STOT) - repeated exposure

No data available

Aspiration hazard

No data available

Immediate, delayed and chronic effects from short- and long-term exposure

In the long term, repeated exposure to citric acid may have effects on the teeth, resulting in erosion.

Symptoms of exposure

Not available. To the best of our knowledge, the chemical, physical and toxicological properties are not the object of an in-depth investigation.

12. Ecological information**12.1 Toxicity**

Toxicity to fish LC50– *Leuciscus idus melatonus* - 440 mg/l (48h)

Toxicity to daphnia and other aquatic invertebrates

Static test - *Daphnia magna* (Water flea) - 1,535 mg / l - 24h

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

This mixture contains components considered persistent, bioaccumulative and toxic (PBT) or very components persistent and very bioaccumulative (vPvB) at $\geq 0.1\%$.

12.6 Other adverse effects

No data available

13. Disposal considerations**13.1 Waste treatment methods****Information concerning disposal**

Reuse, if possible. The product residues must be considered as special hazardous waste. The dangerousness of waste, which contains in part this product, must be evaluated according to the regulations in force. A licensed disposal company has to be commissioned for the waste disposal in agreement with the national, and in case local, regulations in force.

Contaminated packaging

Contaminated packaging has to be recovered or disposed of at an approved site according to the national regulations for waste management

14. Transport information

The mixture is not classified as dangerous under current regulations in force relating to the transport of dangerous goods by road (ADR), Rail (RID), sea (IMDG Code), inland waters (ADN), and air (IATA).

14.1 UN number:

ADR-RID-ADN-IMDG-IATA: Not applicable

14.2 UN proper shipping name

ADR-RID-ADN-IMDG-IATA: Not applicable

14.3 Transport hazard classes

ADR-RID-ADN-IMDG-IATA: Not applicable

14.4 Packaging group

ADR-RID-ADN-IMDG-IATA:

Not applicable

14.5 Environmental hazards

Dangerous for the environment

Not applicable

Marine pollutant

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and Code IBC

Not applicable

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (CE) Num. 1907/2006

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

None

15.2. Chemical Safety Assessment

No data available

16. Other information**Further information**

The receiver of our product is solely responsible for compliance with applicable laws and regulations. The information is based on present level of our knowledge. However, the information is not a guarantee of product properties nor represents the completion of any legal relationship.