

Safety Data Sheet

ICE MACHINE CLEANER

Safety Data Sheet dated 22/11/2019, version 1
In compliance with Regulation (EC) 2015/830

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

- 1.1. Product identifier
Mixture identification:
Trade name: ICE MACHINE CLEANER
Product type: Organic based descaler for coffee machines
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Washing and cleaning products (including solvent based products)
Uses advised against:
Any use not described in the product data sheet
- 1.3. Details of the supplier of the safety datasheet
Supplier:
A&G di Galantino Gerardo & C sas, Via Gianni Brera, 4/C - 27010 Zeccone (PV) – Italy - tel. ++39-0382 957120 - fax. ++39-0382 957614 e-mail: infoaeg@aegpavia.it
Competent person responsible for the safety data sheet:
infoaeg@aegpavia.it
- 1.4. Emergency telephone number
A list of Poison Control Centers is available at the following link:
http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)
⚠ Warning, Skin Irrit. 2, Causes skin irritation.
⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.
Adverse physicochemical, human health and environmental effects:
No other hazards
- 2.2. Label elements
Hazard pictograms:



- Warning
Hazard statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements:
P264 Wash the skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with applicable regulations.
- Special Provisions:
None
Special provisions according to Annex XVII of REACH and subsequent amendments:
None
- Declaration of ingredients according to Detergent Regulation 648/2004:
- 2.3. Other hazards
vPvB Substances: None - PBT Substances: None



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Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 50% - < 75% Sulphamidic acid

REACH N°: 01-2119488633-28-XXXX, Index number: 016- 026-00-0, CAS: 5329-14-6,
EC: 226-218-8

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.2/2 Skin Irrit. 2 H315

4.1/C3 Aquatic Chronic 3 H412

>= 30% - < 50% Citric acid

REACH N°: 01-2119457026-42-XXXX, CAS: 77-92-9, EC: 201-069-1

⚠ 3.3/2 Eye Irrit. 2 H319

For the complete text of the hazard and risk phrases refer to paragraph 16

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.



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Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

For more information see Technical data bulletin

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contained substances

No occupational exposure limit available

DNEL Exposure Limit Values

Sulphamidic acid - CAS: 5329-14-6

Worker Professional: 70.5 mg/m³ - Consumer: 17.4 - U.M.: mg/m³ - Exposure:

Human Inhalation - Frequency: Long Term (repeated)

Worker Professional: 10 mg/kg - Consumer: 5 - U.M.: mg/kg - Exposure: Human

Dermal - Frequency: Long Term (repeated)

Consumer: 5 - U.M.: mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)

PNEC Exposure Limit Values

Sulphamidic acid - CAS: 5329-14-6

Target: Fresh Water - Value: 1.8 mg/l

Target: Marine water - Value: 0.18 mg/l

Target: Freshwater sediments - Value: 8.36 mg/kg



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Target: Marine water sediments - Value: 0.84 mg/kg
Target: Soil (agricultural) - Value: 5 mg/kg
Target: Sewerage treatment plants - Value: 20 mg/l
Citric acid - CAS: 77-92-9
Target: Fresh Water - Value: 0.44 mg/l
Target: Freshwater sediments - Value: 34.6 mg/kg
Target: Marine water sediments - Value: 3.46 mg/kg
Target: Soil - Value: 33.1 mg/kg
Target: Marine water - Value: 0.044 mg/l
Target: Sewerage treatment plants - Value: 1000 mg/l - Notes:: STP

8.2. Exposure controls

Eye protection:

Eye glasses with side protection. EN 166

Protection for skin:

Safety shoes.

Dust-proof protective clothing.

Protection for hands:

One-time gloves. EN374

NBR (nitrile rubber).

Respiratory protection:

Filtering Half-face mask (DIN EN 149). FFP2 with activated carbon valve

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	solid	--	--
Odour:	Not Relevant	--	--
Odour threshold:	Not Relevant	--	--
pH:	1.03	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	Not Relevant	--	--
Flash point:	Not Relevant	--	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	Not flammable	--	--
Upper/lower flammability or explosive limits:	Not Relevant	--	--
Vapour pressure:	Not Relevant	--	--
Vapour density (air=1):	Not Relevant	--	--



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Relative density:	NA	--	--
Solubility in water:	NA	--	--
Solubility in oil:	NA	--	--
Partition coefficient (n-octanol/water):	NA	--	--
Auto-ignition temperature:	Not applicable	--	--
Decomposition temperature:	Not available	--	--
Viscosity:	Not available	--	--
Explosive properties:	NA	--	--
Oxidizing properties:	NA	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Not available	--	--
Fat Solubility:	Not available	--	--
Conductivity:	Not available	--	--
Substance Groups relevant properties:	Not available	--	--

SECTION 10: Stability and reactivity

- 10.1. Reactivity
Stable under normal conditions
- 10.2. Chemical stability
Stable under normal conditions
- 10.3. Possibility of hazardous reactions
None
- 10.4. Conditions to avoid
Stable under normal conditions.
- 10.5. Incompatible materials
None in particular.
- 10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Toxicological information of the product:
Not applicable
Toxicological information of the main substances found in the product:
Sulphamidic acid - CAS: 5329-14-6
Type: a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 3160 - U.M.: mg/kg
Test: LD50 - Route: Skin - Species: Rabbit - Op.: > - Value: 2000 - U.M.: mg/kg
Type: g) reproductive toxicity:



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Test: NOAEL - Species: Rat - Op.: = - Value: 200 - U.M.: mg/kg
Type: i) STOT-repeated exposure:
Test: NOAEL - Route: Oral - Species: Rat - Op.: = - Value: 929 - U.M.: mg/kg - Duration: 24 hours
Citric acid - CAS: 77-92-9
Type: a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 5400 - U.M.: mg/kg
Test: LD50 - Route: Skin - Species: Rat - Op.: > - Value: 2000 - U.M.: mg/kg

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Based on the information available it is not expected that this product may cause any adverse environmental effect when use instructions and disposal recommendations are followed.

Adopt good working practices, so that the product is not released into the environment.

List of substances hazardous to the environment and eco-toxicological information available:

Sulphamidic acid - CAS: 5329-14-6

Type: a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish - Op.: = - Value: 70.3 - U.M.: mg/l - Duration h: 96 -

Notes: Pimephales promelas

Endpoint: EC50 - Species: Daphnia - Op.: = - Value: 71.6 - U.M.: mg/l - Duration h: 48 -

Notes: Daphnia magna

Endpoint: EC50 - Species: Algae - Op.: = - Value: 48 - U.M.: mg/l - Duration h: 72 -

Notes: Desmodesmus subspicatus

Type: b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish - Op.: > - Value: 60 - U.M.: mg/l - Duration h: 816 -

Notes: Danio rerio

Endpoint: NOEC - Species: Daphnia - Op.: = - Value: 19 - U.M.: mg/l - Duration h: 504 -

Notes: Daphnia magna

Citric acid - CAS: 77-92-9

Type: a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish - Op.: = - Value: 440 - U.M.: mg/l - Duration h: 48 -

Notes: Leuciscus idus melanotus

Endpoint: LC50 - Species: Daphnia - Op.: = - Value: 1535 - U.M.: mg/l - Duration h: 24 -

Notes: Daphnia magna

Endpoint: LC50 - Species: Algae - Op.: = - Value: 425 - U.M.: mg/l - Duration h: 168 -

Notes: Scenedesmus quadricauda

12.2. Persistence and degradability

Sulphamidic acid - CAS: 5329-14-6

Biodegradability: Not applicable, inorganic substance

Citric acid - CAS: 77-92-9

Biodegradability: Readily biodegradable - Duration: 28 days - %: 97 - Notes: OCSE 301B

12.3. Bioaccumulative potential

Sulphamidic acid - CAS: 5329-14-6

Bioaccumulation: Not available

Citric acid - CAS: 77-92-9



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- Bioaccumulation: Not bioaccumulative
- 12.4. Mobility in soil
Sulphamidic acid - CAS: 5329-14-6
Mobility in soil: Not available
Citric acid - CAS: 77-92-9
Mobility in soil: Not mobile
- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
Product and its residue:
Do not dispose in the canals of wastewater, waterways and soil.
The codes indicating the type of waste are considered based on the recommendations and scheduled use of this product. Different codes may be assigned based on the end user's use and the characteristics of the disposal.
Waste code CER/EWC (2000/532/CE), attributable to the product as:
07 06 08* other still bottoms and reaction residues
HP4 - HP14
Any remaining product should be disposed of with the material.
- Containers/contaminated packaging
Containers, even completely empty, must not be disposed in the environment. The packagings which can not be cleaned should be disposed of as the material.
- Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions.
In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



- 14.1. UN number
ADR-UN Number: 2967
IATA-UN Number: 2967
IMDG-UN Number: 2967
- 14.2. UN proper shipping name
ADR-Shipping Name: SULPHAMIC ACID
IATA-Shipping Name: SULPHAMIC ACID
IMDG-Shipping Name: SULPHAMIC ACID
- 14.3. Transport hazard class(es)
ADR-Class: 8
ADR - Hazard identification number: 80
IATA-Class: 8
IATA-Label: 8
IMDG-Class: 8
- 14.4. Packing group
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
ADR-Subsidiary risks: -
ADR-S.P.: -



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ADR-Transport category (Tunnel restriction code): 3(E)

IATA-Passenger Aircraft: 860

IATA-Subsidiary risks: -

IATA-Cargo Aircraft: 864

IATA-S.P.: A803

IATA-ERG: 8L

IMDG-EmS: F-A , S-B

IMDG-Subsidiary risks: -

IMDG-Stowage and handling: Category A

IMDG-Segregation: -

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 0.00 %

Volatile Organic compounds - VOCs = 0.00 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.00

Where applicable, refer to the following regulatory provisions :

Regulation (EC) n°648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Seveso III category according to Annex 1, part 1

Product belongs to category:

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.



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Hazard class and hazard category	Code	Description
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.
This MSDS cancels and replaces any preceding release.

Where applicable, refer to the following regulatory provisions :

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments; Regulation (EC) n°1272/2008; Regulation (EC) N. 790/2009 (annex VI), Regulation (EC) n. 1907/2006 (REACH).

Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments; Commission Directive n. 2006/8/CE.

Directive 2012/18/EU (Seveso III)

Directive 2013/10/EU (aerosols) amending Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) n°1272/2008 on classification, labelling and packaging of substances and mixtures and subsequent amendments.

Regulation (EC) No 1223/2009 on cosmetic products and subsequent amendments.

Regulation (EU) No 126/2013 amending Annex XVII to Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and subsequent amendments. Regulation (EC) N. 304/2003 and subsequent amendments. Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products and subsequent amendments.

EU Regulation 1357/2014 (Disposal of waste) and subsequent amendments.

The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), current edition.

Regulations IATA/ICAO = Dangerous Goods Regulations by air, current edition.

RID = Regulations concerning the International Carriage of Dangerous Goods by Rail, current edition.

IMDG Code = International Maritime Dangerous Goods Code produced by the International Maritime Organization (IMO), current edition.

Main bibliographic sources:

ACGIH - Threshold Limit Values - 2015

Occupational exposure limit values (Commission Directives 2000/39/EC and 2006/15/CE)

ECHA dossier

NIOSH - Registry of toxic effects of chemical substances (1983)

Material Safety Data Sheets of chemicals, REACH database



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Material Safety Data Sheet and Technical Data of raw material as by Supplier.

Abbreviations and acronyms:

TLV-TWA = Threshold Limit Value- time-weighted average, 8-hour workday, 40-hour workweek; TLV-STEL-15 min = Threshold Limit Values - Short Term Exposure Limit; TLV-C = Ceiling exposure limit; Notes: IBE= Biological Exposure Indices; SEN= sensitizer; Skin= Can be absorbed through the skin. Carcinogenicity categories: A1 / A2 = confirmed / suspected human carcinogen; A3 = Animal carcinogen; A4 / A5 = Not Classifiable/not suspected as a human carcinogen. ACGIH = American Conference on Governmental Industrial Hygienists. OEL =Occupational Exposure Limit. VLPE = Occupational Exposure Limit Values. LTE =long term exposure, STE=short term exposure.

n.av.= Not Available, n.a. = not applicable; LD50=lethal dose (solids and liquids), LC50=lethal concentration (gases) that will kill 50% of the test animals; ADR= European Agreement concerning the International Carriage of Dangerous Goods by Road. Regulations IATA/ICAO = Dangerous Goods Regulations by air, current edition.

RID = Regulations concerning the International Carriage of Dangerous Goods by Rail, current edition. IMDG Code = International Maritime Dangerous Goods Code produced by the International Maritime Organization (IMO), current edition.

PBT = Persistent, Bioaccumulative and Toxic substances. ; vPvB = very Persistent and very Bioaccumulative substances; CMR = Carcinogenic, mutagenic or reproduction toxic substances.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)