Safety Data Sheet
EVER CLEAN (Dishwasher Care Pack)

Safety Data Sheet dated 5/7/2018, version 1

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

1.1. Product identifier

Mixture identification:

Trade name: EVER CLEAN (Dishwasher Care Pack)

Trade code: EVER CLEAN

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

Recommended use:

Anti-scale for dishwasher or washing machine

1.3. Details of the supplier of the safety data sheet

Company:

AXOR SRL

Via dell'Artigianato 8

35020 Pernumia (PD)

AXOR-S.R.L. - Tel. 0039-0429 - 763476 from Monday to Friday 8.30-17.30

Competent person responsible for the safety data sheet:

axor@axor.net

1.4. Emergency telephone number

AXOR-S.R.L. - Tel. 0039-0429 - 763476 from Monday to Friday 8.30-17.30

CENTRO ANTIVELENI DI BERGAMO tel: 0039-800-883300

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

Product contents:

List of all ingredients by decreasing weight, divided into percentage weight categories (Reg 648/2004EC Ann. VII, C).

phosphonates, anionic surfactants < 5 %

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:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
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.
P362+P364 Take off contaminated clothing and wash it before reuse.
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

2.3. Other hazards
vPvB Substances: None - PBT Substances: None

Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances
N.A.

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

Qty	Name	Ident. Number	Classification
>= 30% - < 50%	CITRIC ACID ANHYDROUS	CAS: 77-92-9 EC: 201-069-1	3.3/2 Eye Irrit. 2 H319
>= 30% - < 50%	sulphamidic acid; sulphamic acid	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
>= 1% - < 5%	sodium (1-hydroxyethylidene) bisphosphonate	CAS: 29329-71-3 EC: 249-559-4	2.16/1 Met. Corr. 1 H290 3.1/4/Oral Acute Tox. 4 H302 3.3/2 Eye Irrit. 2 H319

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:
Immediately take off all contaminated clothing.
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 opthalmologist 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.
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.
Contamined 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)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No occupational exposure limit available
DNEL Exposure Limit Values
sulphamidic acid; sulphamic acid - CAS: 5329-14-6
Worker Professional: 0.0075 mg/l - Consumer: 0.00185 mg/l - Exposure: Human Inhalation - Frequency: Long Term (repeated)
Consumer: 1.06 mg/kg - Frequency: Long Term (repeated)
PNEC Exposure Limit Values
CITRIC ACID ANHYDROUS - 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 (agricultural) - Value: 33.1 mg/kg
Target: Marine water - Value: 0.044 mg/l
sulphamidic acid; sulphamic acid - CAS: 5329-14-6
Target: Fresh Water - Value: 0.3 mg/l
Target: Marine water - Value: 0.03 mg/l
Target: Freshwater sediments - Value: 0.3 mg/kg
Target: Marine water sediments - Value: 0.03 mg/kg
Target: Soil (agricultural) - Value: 3 mg/kg
8.2. Exposure controls
Eye protection:
Use close fitting safety goggles, don't use eye lens.
Protection for skin:
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Protection for hands:
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
Respiratory protection:
Not needed for normal use.
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:	white crystalline powder	--	--
Odour:	odorless	--	--
Odour threshold:	Not Available	--	--
pH:	2.1	--	1% weight dissolved in water (as in his use)
Melting point / freezing point:	Not Available	--	--
Initial boiling point and	Not Available	--	--

boiling range:			
Flash point:	Not Available ° C	--	--
Evaporation rate:	Not Available	--	--
Solid/gas flammability:	NOT FLAMMABLE	--	--
Upper/lower flammability or explosive limits:	Not Available	--	--
Vapour pressure:	Not Available	--	--
Vapour density:	Not Available	--	--
Relative density:	1.01 - 1.05 kg/lt	--	--
Solubility in water:	SOLUBLE	--	--
Solubility in oil:	INSOLUBLE	--	--
Partition coefficient (n-octanol/water):	Not Available	--	--
Auto-ignition temperature:	Not Available	--	--
Decomposition temperature:	Not Available	--	--
Viscosity:	Not Available	--	--
Explosive properties:	Not Available	--	--
Oxidizing properties:	Not Available	--	--

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:
N.A.
Toxicological information of the main substances found in the product:
CITRIC ACID ANHYDROUS - CAS: 77-92-9
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 11700 mg/kg

Test: LD50 - Route: Oral - Species: Mouse = 5400 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

sulphamidic acid; sulphamic acid - CAS: 5329-14-6

a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 1450 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

sodium (1-hydroxyethylidene) bisphosphonate - CAS: 29329-71-3

a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 1500 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

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

CITRIC ACID ANHYDROUS - CAS: 77-92-9

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 440 mg/l - Duration h: 48
Endpoint: LC50 - Species: Daphnia = 1350 mg/l - Duration h: 24
Endpoint: LC50 - Species: Algae = 425 mg/l - Duration h: 168
Endpoint: LC50 > 10000 mg/l - Duration h: 16 - Notes: Batteri

sulphamidic acid; sulphamic acid - CAS: 5329-14-6

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 70.3 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 71.6 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 48 mg/l - Duration h: 72

sodium (1-hydroxyethylidene) bisphosphonate - CAS: 29329-71-3

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 300 mg/l
Endpoint: EC50 - Species: Daphnia > 100 mg/l

12.2. Persistence and degradability

CITRIC ACID ANHYDROUS - CAS: 77-92-9
Biodegradability: Readily biodegradable - Test: Biochemical oxigen demand - Duration: N.A. - %: 97 - Notes: 28 giorni

sulphamidic acid; sulphamic acid - CAS: 5329-14-6
Biodegradability: Not persistent and Biodegradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes: N.A.

sodium (1-hydroxyethylidene) bisphosphonate - CAS: 29329-71-3
Biodegradability: Not persistent and Biodegradable - Test: Dissolved organic carbon - Duration: N.A. - %: 330 - Notes: N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

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

Recover if possible. 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

14.2. UN proper shipping name

ADR-Shipping Name: ACIDO SOLFAMMICO (Acido solfammidico) SULPHAMIC ACID (Sulphamidic acid)

14.3. Transport hazard class(es)

ADR-Class: 8

14.4. Packing group

ADR-Packing Group: III

14.5. Environmental hazards

14.6. Special precautions for user

ADR-Tunnel Restriction Code: E

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

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)

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

None

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

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.
H290 May be corrosive to metals.
H302 Harmful if swallowed.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
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.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

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.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.

INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.