



MATERIAL SAFETY DATA SHEET

CLEAN & CARE

Current review date: 20/01/2020

Current review: 01

Previous review date: 18/10/2018

Previous review: 00

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

1.1 Product identifier

Commercial name : CLEAN & CARE
 Code : 9029799187 – 6 sachets 50 g in one box
 9029799195 – 12 sachets 50 g in one box

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

Consumers use : Antiscale, degreaser and sanitizing powder for all washing machines and dishwasher
 Uses advised against: All those not expressly identified on label

1.3 Details of the supplier of the safety data sheet

Supplier of substance/mixture

GBCHEM S.r.l.
 Via Santa Eufemia, 8 - 25040 CORTE FRANCA (BS) - ITALIA
 Tel. +39 3464232984
 e-mail address competent person: gbchemsrl@yahoo.it

Distributed by:

Electrolux Appliance AB - S.t Göransgatan 143, SE-112 17 Stockholm (Sweden)
 Tel. +46 8-738 60 00

1.4 Emergency telephone number

Tel: +39 3464232984 (from 08,30 to 12,30 - from 14,00 to 18,00)
 See section 16 of MSDS for European Antipoison Centre

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification in accordance with Regulation (EC) No 1272/2008:

The product is dangerous in accordance with Regulation (EC) No 1272/2008 so it's mandatory to draw up a material safety data sheet in accordance with Regulation (EU) 2015/830.

Hazard pictogram(s) : GHS07
 Hazard class and category codes : Skin Irrit. 2, Aquatic Chronic 3
 Hazard statement codes : H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H412 - Harmful to aquatic life with long lasting effects

2.1.2 Other effects

The product, if brought into contact with the eyes, causes significant irritation that can last for more than 24 hours; if brought into contact with the skin can cause skin irritation with rashes, eschar or edema. The product is harmful for the environment as it is toxic to aquatic life with long lasting effects.

2.2 Label elements

2.2.1 Label in accordance with Regulation (EC) No 1272/2008

Hazard pictogram(s) : GHS07



Signal word : WARNING
 Hazard statement(s) : H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H412 - Harmful to aquatic life with long lasting effects
 Suppl. Hazard statement Code(s) : Not applicable

Precautionary statement(s) :
 General

P101 - If medical advice is needed, have product container or label at hand.
 P102 - Keep out of reach of children.

Prevention

P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

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.

Storage

Not applicable

Disposal

P501 - Dispose of contents/container in accordance with local/national regulation.

Labelling of packaging containing less than or equal to 125 ml (Annex I Section 1.5.2)



WARNING

H412 - Harmful to aquatic life with long lasting effects.
 P101 - If medical advice is needed, have product container or label at hand.
 P102 - Keep out of reach of children.

2.3 Other hazards

According to available data the mixture does NOT contain PBT / vPvB substances more than 0.1 in according to Regulation (EC) 1907/2006, Annex XIII



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SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

See section 16 for full text of Hazard statement(s).

Substance	x = Conc. %	Classification	CAS	EINECS	REACH
Sulphamic acid	> 40 x ≤ 60	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	5329-14-6	226-218-8	01-2119488633-28
Index number: 016-026-00-0					
Citric acid (E330)/2-hydroxypropane-1,2,3-tricarboxylic acid	≥ 40 x < 60	Eye Irrit. 2, H319	77-92-9	201-069-1	01-2119457026-42
Index number: Not available					

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Immediately remove the patient from the contaminated area and keep it at rest in a well-ventilated area. Seek medical advice.

Skin (pure product)

Remove contaminated clothing and wash it before to re-use. Wash the areas of the body that have come into contact with the product immediately with plenty of water and soap, even if only suspicious. Do not use neutralizing substances and do not apply ointments before 24 hours or without medical advice. Seek medical advice.

Eyes (pure product)

Irrigate immediately and abundantly for about 15 minutes with running water keeping the eyelids open; then protect the eyes with dry sterile gauze and use specialized medical care. Do not use eye drops or ointments of any kind before the visit or advice from an eye doctor.

Ingestion

Seek medical advice immediately. Do not induce vomiting and do not give anything unless expressly indicated by the doctor. Keep the patient at rest in a well-ventilated area.

4.2 Most important symptoms and effects, both acute and delayed

The product seriously harms mucous membranes, upper respiratory tract, eyes and skin. The symptoms and signs of poisoning are: burning sensation, cough, asthma, laryngitis, shortness of breath, headache, nausea, vomit. Inhalation can cause: bronchus inflammation edema and spasm, larynx inflammation edema and spasm. Inhalation can cause chemical pneumonia.

4.3 Indication of any immediate medical attention and special treatment needed

See section 4.1 – Description of first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : CO₂, alcohol-resistant foam and chemical powders**Unsuitable extinguishing media:** None in particular

5.2 Special hazards arising from the substance or mixture

The product, during combustion, develops vapors potentially harmful to health.

5.3 Advice for firefighters

Use protective clothing for the respiratory tract, eyes and skin. Water spray can be used to disperse flammable vapors and protect people engaged in extinction. It is also advisable to use self-contained breathing apparatus, above all, when working in closed and poorly ventilated areas. Use specifically protective equipment of fire team.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Move away from the area surrounding the spill or release. Not smoking.**For emergency responders:** General information: Use best P.P.E. See section 8.

6.2 Environmental precautions

Contain leaks with soil or sand to prevent it from flowing into surface waterways and / or sewers. If the product has flowed in large quantities in a watercourse or has contaminated the soil or vegetation, notify to the competent authorities.

6.3 Methods and material for containment and cleaning up

Collect the product for possible use or for elimination. After collection, wash the affected area and materials with plenty of water and collect the wash water.

6.4 Reference to other sections

See sections 8 and 13 for further information

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Normal precautions for handling chemicals, protecting themselves from accidental contact. Do not smoke, eat or drink while handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in original packaging, in a cool, ventilated place away from heat sources and direct exposure to sunlight. Keep containers closed when not in use.

7.3 Specific end use(s)

Consumer uses: Follow the instructions on the label / box / information sheets.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Control parameters relatives to substances contained if available

Substance:	Sulphamic acid			
CAS:	5329-14-6			
GESTIS International Limit Values				
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
	Not available	Not available	Not available	Not available
	Remarks			



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Reference: CSR DU (ICS_SULPHAMIDIC ACID_2019-07-09_18-30-59-371_926970.i6z / GBCHEM srl Submission YZ613709-83)

DNEL (Workers)**DNEL (Population)**

	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation (mg/m ³)	70,5	No hazard identified	No hazard identified	No hazard identified	Inhalation (mg/m ³)	17,4	No hazard identified	No hazard identified	No hazard identified
Dermal (mg/kg bw/day)	10	No hazard identified	No hazard identified	No hazard identified	Dermal (mg/kg bw/day)	5	No hazard identified	No hazard identified	No hazard identified
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	5	Not available	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	No hazard identified	Not available	Eyes (mg/kg bw/day)	Not available	Not available	No hazard identified	Not available

PNEC

Freshwater (mg/l)	1,8	Intermittent (mg/l)	Not available	Marine water (mg/l)	0,18
STP (mg/l)	20	Sediment (freshwater) (mg/kg/sediment)	8,36	Sediment (marine water) (mg/kg/sediment)	0,84
Air	No hazard identified	Soil (mg/kg soil)	5	Hazard for predators (g/kg food)	No potential for bioaccumulation

Substance: 2-hydroxypropane-1,2,3-tricarboxylic acid**CAS:** 77-92-9**GESTIS International Limit Values**

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Germany (AGS)	--	2 (1)	--	4 (1)(2)
Germany (DFG)	--	2 (1)	--	4 (1)(2)
Switzerland	--	2 (1)	--	4 (1)(2)
	Remarks			
Germany (AGS)	(1) Inhalable fraction (2) 15 minutes average value			
Germany (DFG)	(1) Inhalable fraction and vapour (2) 15 minutes average value			
Switzerland	(1) Inhalable fraction (2) 15 minutes average value			
Link ECHA	--			

DNEL (Workers)**DNEL (Population)**

	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation (mg/m ³)	Not available	Not available	Not available	Not available	Inhalation (mg/m ³)	Not available	Not available	Not available	Not available
Dermal (mg/kg bw/day)	Not available	Not available	Not available	Not available	Dermal (mg/kg bw/day)	Not available	Not available	Not available	Not available
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available	Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available

PNEC

Freshwater (mg/l)	0,44	Intermittent (mg/l)	Not available	Marine water (mg/l)	0,044
STP (mg/l)	1000	Sediment (freshwater) (mg/kg/sediment)	34,6	Sediment (marine water) (mg/kg/sediment)	3,46
Air	Not available	Soil (mg/kg soil)	33,1	Hazard for predators g/kg food	Not available


8.2 Exposure controls

If as a result of the risk assessment and the adoption of technical preventive and / or organizational measures of collective protection it results that there is still a residual risk for the worker, it is necessary to equip the worker with the Personal Protective Equipment.


8.2.1 Appropriate engineering controls

Data not available


8.2.2 Individual protection measures, such as personal protective equipment**A. EYE/FACE PROTECTION**

PICTOGRAM	PPE	NOTES
 GLASS	PPE for eyes are a second category and must be marked with CE and number of Notify body that certified them. EN166 Personal eye-protection - Specifications	Not necessary in normal use.


B. HAND PROTECTION

PICTOGRAM	PPE	NOTES
 GLOVES	Gloves that protect against corrosive chemical substances, third category and provided with CE marking and the number of the Notified Body that issued the certification. EN374 Protective gloves against dangerous chemicals and micro-organisms.	We recommend category II long wrist waterproof gloves, the material can be latex or, for allergic, nitrile. The thickness of the gloves and the possible presence of an inner lining depend on many variables including the comfort of the operator.

C. BODY PROTECTION

PICTOGRAM	PPE	NOTES
 WORKING CLOTHES	EN 13688 Protective clothing - General requirements	Work clothes.

D. RESPIRATORY PROTECTION

PICTOGRAM	PPE	NOTES
 FILTER MASK	The choice of PPE must be in accordance with EN 529:2006 (Respiratory protective devices - Recommendations for selection, use, care and maintenance - Guidance document). e.g. it's possible to use mask in accordance with EN149 - Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking).	Not necessary in normal use



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E. THERMAL HAZARDS

Avoid exposure to open flames.

F. ENVIRONMENTAL EXPOSURE CONTROLS

Avoid release into the environment

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

The following physical and chemicals properties aren't technical specifications. Specific references are in technical documentation.

Physical and chemical properties	Value	Notes or analytical method
Appearance	Crystalline white solid	Visual
Odour	Odourless	Olfactory
Odour threshold	Not determined	--
pH	Not applicable	--
Melting point/freezing point	~ 150°C	--
Initial boiling point and boiling range	Not determined	--
Flash point	Not applicable	--
Evaporation rate	Not determined	--
Flammability (solid, gas)	> 300°C	--
Upper/lower flammability or explosive limits	Not determined	--
Vapour pressure	Not determined	--
Relative density	2,150 ± 0,050	--
Solubility(ies)	Total in water	Theoretical
Partition coefficient: n-octanol/water	Not determined	--
Auto-ignition temperature	> 1000 °C	--
Decomposition temperature	Not determined	--
Viscosity	Not applicable	--
Explosive properties	Not determined	--
Oxidising properties	Not determined	--

9.2 Other information

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

Stable under normal conditions of use and storage.

10.2 Chemical stability

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

No one in normal use.

10.4 Conditions to avoid

Shock	Air	Heating	Light	Humidity
Nothing to report	Nothing to report	Avoid exposure to open flames	Nothing to report	Keep away

10.5 Incompatible materials

Acids	Bases	Water	Oxidising/Reducing	Other
Nothing to report	Avoid contact	Nothing to report	Avoid contact	Not mix with chemicals

10.6 Hazardous decomposition products

Under normal conditions the preparation does not decompose.

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

Hazard classes	Classification
(a) Acute toxicity :	Based on available data, the classification criteria are not met
(b) Skin corrosion/irritation :	The product, if brought into contact with the skin can cause skin irritation with rashes, eschar or edema.
(c) Serious eye damage/irritation :	The product, if brought into contact with the eyes, causes significant irritation that can last for more than 24 hours
(d) Respiratory or skin sensitisation :	Based on available data, the classification criteria are not met
(e) Germ cell mutagenicity :	Based on available data, the classification criteria are not met
(f) Carcinogenicity :	Based on available data, the classification criteria are not met
(g) Reproductive toxicity :	Based on available data, the classification criteria are not met
(h) STOT-single exposure :	Based on available data, the classification criteria are not met
(i) 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

Relatives substances contained

Substance:	Sulphamic acid
CAS	5329-14-6
Routes of exposure	Inhalation, oral
Inhalation risk	Evaporation at 20°C is negligible
Effects of short-term exposure	Aerosol is irritating to the eyes, skin and respiratory tract. Inhalation of aerosol may cause pulmonary edema.
Effects of repeated or long term exposure	Data not available
ACUTE RISK/SYMPOTOMS	
Inhalation	Burning sensation, cough, shortness of breath.
Skin	Redness, Pain, blisters.
Eyes	Redness. Pain, severe burns.
Ingestion	Abdominal cramps, burning sensation, sore throat, vomit and shock
Notes	The symptoms of pulmonary edema often do not manifest themselves for a few hours and are aggravated by physical effort. Rest and medical observation are essential. The immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him / her must be envisaged



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SECTION 12: Ecological information

12.1 Toxicity

The product is dangerous for the environment as it is harmful to aquatic life with long lasting effects.
Use according to good working practices, avoiding to disperse the product in the environment.

12.2 Persistence and degradability

The product doesn't contain surfactants

12.3 Bioaccumulative potential

May cause long-term adverse effects in the aquatic environment.

12.4 Mobility in soil

Data not available

12.5 Results of PBT and vPvB assessment

Based on the available data, the product does not contain PBT or vPvB substances in a percentage higher than 0.1%

12.6 Other adverse effects



Data not available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not reuse empty containers. Dispose of them in compliance with current regulations. Any product residues can be burned in a suitable incinerator, equipped with post-combustion and abatement.

SECTION 14: Transport information

	ADR	IMDG	IATA
14.1 UN number	2967		
14.2 UN proper shipping name	Sulphamic acid in a mixtures		
14.3 Transport hazard class(es)	8		
14.3 Label			
Packing group	III		
Limited quantities			
Inner packaging	5 Kg		
External packaging (Note 1)	<div> <div>20 or 30 Kg⁽¹⁾</div>  </div>		
Packaging instruction	P002	P002	Y845/860/864
Tunnel restriction code	E	Not applicable	Not applicable
EmS	N.A.	F-A, S-B	Not applicable
Stowage and segregation	N.A.	Category A / SGG1 – SG36 – SG49	Not applicable
14.5 Environmental hazards	NO		
Marine pollutant	NO		
14.6 Special precautions for user	As with all goods classified as dangerous for transport, all movements must be carried out in compliance with the specific rules for each type of transport under the control, if provided for by the regulations, of a specialist for the safety of transport of dangerous goods.		
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Does not allow carried in bulk		

Note 1
Box 30 kg – shrink-wrapped or stretch-wrapped trays 20 kg

SECTION 15: Regulatory information

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

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 COMMISSION REGULATION (EC) No 790/2009, of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents

15.2 Chemical safety assessment

A chemical safety assessment has been developed for the substances that make up this mixture and this safety data sheet contains, in an integrated form, the information used to establish the safe use of the mixture. The content, where relevant, has been included in sections 1.2, 8, 9, 12, 15 and 16 of the same safety data sheet.

SECTION 16: Other information

16.1 Other information

Description of Hazard class and category codes in section 3

Skin Irrit. 2 Skin irritation, hazard category 2
Eye Irrit. 2 Eye irritation, hazard category 2
Aquatic Chronic 3 Hazardous to the aquatic environment, hazard category chronic 3

Classification made based on the data of all the components of the mixture

Description of Hazard statement(s) in section 3

H315 = Causes skin irritation.
H319 = Causes serious eye irritation
H412 = Harmful to aquatic life with long lasting effects

ANTIPOISON CENTRE

EUROPA			
Antipoison centre	AUSTRIA - Vergiftungsinformationszentrale	Antipoison centre	BELGIUM - Centre Antipoisons-Antigifcentrum
Emergency phone	+43 1 406 43 43	Emergency phone	+32 70 245 245
Antipoison centre	CROATIA - Poison Control Centre Zagreb	Antipoison centre	FRANCE - ORFILA_ Liste des centres anti poison
Emergency phone	+358 1 2348 342	Emergency phone	+33 1 40 05 48 48



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Antipoison centre	FRANCE - Centre antipoison et de toxicovigilance de Paris	Antipoison centre	GERMANY - Deutschland Notrufnummer
Emergency phone	+33 (0)1 40 05 48 48	Emergency phone	+49 030 30 68 67 00
Antipoison centre	NETHERLANDS - National Poisons Information Centre	Antipoison centre	SWEDEN - Swedish Poisons Information Centre
Emergency phone	+31 30 274 88 88	Emergency phone	112

SOURCES

ECHA	European Chemicals Agency	OSHA	European Agency for Safety and Health at Work	IARC	International Agency for Research on Cancer
IPCS	International Programme on Chemical Safety (Cards)	NIOSH	Registry of toxic effects of chemical substances (1983)	ACGIH	American Conference of Governmental Industrial Hygienists
TOXNET	Toxicology Data Network	WHO	World Health Organization	CheLIST	Chemical Lists Information System
IFA	Institute für Arbeitsschutz.				

The sections modified respect to the previous revision are highlighted by the vertical section on the left.

Safety Data Sheet according to Regulation (EU) No. 2015/830 of 29 May 2015 and subsequent amendments

The information in this SDS was obtained from the best that is available or to our knowledge on the market at the specified review date. Neither the Company registered holder of this card nor the subsidiaries will accept any complaints arising from improper use of the information set forth herein or from improper use of the product in the application. Pay particular attention to the use of preparations because improper use can increase the hazard.

This safety data sheet has been translated with an automatic system. We thank all the people who want to report any anomalies in the translation.