



Safety Data Sheet dated 19/9/2022, version 1

1.1. Produ	lentification of the subs uct identifier ture identification:	stance/mixture and of the company/undertaking	
	de name:	RIO (Scale-remover for electrical coffee pots)	
	de code:	E405 (SL004L)	
UF		Q300-F0FV-F002-AX8E	
	vant identified uses of the su	ubstance or mixture and uses advised against	
Descaler,	Degreaser, Sanitizer (3in1)	for washing machine and dishwasher	
	ls of the supplier of the safe		
	mpany:	,	
	OR SRL		
Via	dell'Artigianato 8		
	20 Pernumia (PD)		
AX	OR-S.R.L Tel. 0039-0429	- 763476 from Monday to Friday 8.30-17.30	
Competer	nt person responsible for the	e safety data sheet:	
	or@axor.net		
	gency telephone number		
AXOR-S.R.L Tel. 0039-0429 - 763476 from Monday to Friday 8.30-17.30			
CE	NTRO ANTIVELENI DI BEF	RGAMO tel: 0039-800-883300	
SECTION 2: H	azards identification		
2.1. Class	ification of the substance or	r mixture	
EC regula	ition criteria 1272/2008 (CLF	^o)	
\Diamond	Danger, Skin Corr. 1, Cau	uses severe skin burns and eye damage.	
	Danger, Eye Dam. 1, Cau	ises serious eye damage.	

EUH071 Corrosive to the respiratory tract.

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). The product also contains: Allergens: Preservatives: Hazard pictograms:



Danger Hazard statements: H314 Causes severe skin burns and eye damage. Precautionary statements:

E405 (SL004L)/1 Page n. 1 of 8



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

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

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.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH071 Corrosive to the respiratory tract.

PACK1 The packing must be featured by a safety lock for children.

PACK2 The packing must have tactive indications of danger for blind people.

Contains

L(+)LACTIC ACID

Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%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
>= 10% -	L(+)LACTIC ACID	CAS:	79-33-4	3.2/1 Skin Corr. 1 H314
< 20%		EC:	201-196-2	EUH071

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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 induce vomiting.

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:

E405 (SL004L)/1 Page n. 2 of 8



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.
 See also section 8 for recommended protective equipment.
 Advice on general occupational hygiene:
 Contamined clothing should be changed before entering eating areas.
 Do not eat or drink while working.

 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

E405 (SL004L)/1 Page n. 3 of 8



No occupational exposure limit available DNEL Exposure Limit Values	
N.A.	
PNEC Exposure Limit Values L(+)LACTIC ACID - CAS: 79-33-4	
Target: Fresh Water - Value: 1.3 mg/l	
Target: waste treatment plant - Value: 10 mg/l	
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:
Physical state:	Liquid		
Colour:	N.A.		
Odour:	characteristic		
Odour threshold:	Not Available		
Melting point/freezing	Not Available		
point:			
Boiling point or initial	100°C		
boiling point and boiling			
range:			
Flammability:	N.A.		
Lower and upper explosion	Not Available		
limit:			
Flash point:	Not Available		
	°C		
Auto-ignition temperature:	N.A.		
Decomposition	N.A.		
temperature:			
pH:	2.2		
Kinematic viscosity:	N.A.		
Solubility in water:	SOLUBLE		
Solubility in oil:	INSOLUBLE		
Partition coefficient	N.A.		
n-octanol/water (log value):			
Vapour pressure:	Not Available		
Density and/or relative	1.02 - 1.05		
density:			



	Not Available		
		aracteristics:	
Particle size:	N.A.		
9.2. Other information			
Properties	Value	Method:	Notes:
Evaporation rate:	Not Available		
TION 10: Stability and re	eactivity		
10.1. Reactivity			
Stable under normal	conditions		
10.2. Chemical stability			
Stable under normal			
10.3. Possibility of hazardo None	us reactions		
10.4. Conditions to avoid			
Stable under normal	conditions.		
10.5. Incompatible materia			
None in particular.			
10.6. Hazardous decompos	sition products		
None.			
Not classified Based on ava b) skin corrosion/irrit	ilable data, the c		
The product is c) serious eye dama The product is d) respiratory or skin Not classified Based on ava e) germ cell mutager Not classified Based on ava f) carcinogenicity Not classified Based on ava g) reproductive toxic Not classified Based on ava h) STOT-single expo Not classified Based on ava i) STOT-repeated ex	ation classified: Skin ge/irritation classified: Eye sensitisation ilable data, the c nicity ilable data, the c ilable data, the c sure	Corr. 1 H314 Dam. 1 H318 classification cr classification cr	riteria are not met riteria are not met riteria are not met riteria are not met riteria are not met
The product is c) serious eye dama The product is d) respiratory or skin Not classified Based on ava e) germ cell mutager Not classified Based on ava f) carcinogenicity Not classified Based on ava g) reproductive toxic Not classified Based on ava h) STOT-single expo Not classified Based on ava i) STOT-repeated ex Not classified	ation classified: Skin ge/irritation classified: Eye sensitisation ilable data, the c ilable data, the c ilable data, the c ilable data, the c sure ilable data, the c	Corr. 1 H314 Dam. 1 H318 classification cr classification cr classification cr	riteria are not met riteria are not met riteria are not met riteria are not met
The product is c) serious eye dama The product is d) respiratory or skin Not classified Based on ava e) germ cell mutager Not classified Based on ava f) carcinogenicity Not classified Based on ava g) reproductive toxic Not classified Based on ava h) STOT-single expo Not classified Based on ava i) STOT-repeated ex Not classified Based on ava	ation classified: Skin ge/irritation classified: Eye sensitisation ilable data, the c ilable data, the c ilable data, the c ilable data, the c sure ilable data, the c	Corr. 1 H314 Dam. 1 H318 classification cr classification cr classification cr	riteria are not met riteria are not met riteria are not met
The product is c) serious eye dama The product is d) respiratory or skin Not classified Based on ava e) germ cell mutager Not classified Based on ava f) carcinogenicity Not classified Based on ava g) reproductive toxic Not classified Based on ava h) STOT-single expo Not classified Based on ava i) STOT-repeated ex Not classified	ation classified: Skin ge/irritation classified: Eye sensitisation ilable data, the c ilable data, the c ilable data, the c ilable data, the c sure ilable data, the c	Corr. 1 H314 Dam. 1 H318 classification cr classification cr classification cr	riteria are not met riteria are not met riteria are not met riteria are not met
The product is c) serious eye dama The product is d) respiratory or skin Not classified Based on ava e) germ cell mutager Not classified Based on ava f) carcinogenicity Not classified Based on ava g) reproductive toxic Not classified Based on ava h) STOT-single expo Not classified Based on ava i) STOT-repeated ex Not classified Based on ava j) aspiration hazard Not classified	ation classified: Skin ge/irritation classified: Eye sensitisation ilable data, the c ilable data, the c ilable data, the c ity ilable data, the c sure ilable data, the c	Corr. 1 H314 Dam. 1 H318 classification cr classification cr classification cr classification cr	riteria are not met riteria are not met riteria are not met riteria are not met

E405 (SL004L)/ Page n. 5 of 8



Toxicological information of the main substances found in the product: L(+)LACTIC ACID - CAS: 79-33-4 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat = 3543 mg/kg Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg Test: LC50 - Route: Inhalation - Species: Rat = 7.94 mg/l - Duration: 4h 11.2. Information on other hazards Endocrine disrupting properties: No endocrine disruptor substances present in concentration >= 0.1% **SECTION 12: Ecological information** 12.1. Toxicity Adopt good working practices, so that the product is not released into the environment. RIO (Scale-remover for electrical coffee pots) Not classified for environmental hazards Based on available data, the classification criteria are not met L(+)LACTIC ACID - CAS: 79-33-4 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish = 130 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia = 130 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae = 2800 mg/l - Duration h: 48 Endpoint: NOEC = 1900 mg/l 12.2. Persistence and degradability L(+)LACTIC ACID - CAS: 79-33-4 Biodegradability: Readily biodegradable 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. Endocrine disrupting properties No endocrine disruptor substances present in concentration >= 0.1% 12.7. Other adverse effects None

SECTION 13: Disposal considerations

13.1. Waste treatment methods 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 or ID number
 - Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
 - N.A.
- 14.3. Transport hazard class(es)
 - N.A.
- 14.4. Packing group
 - N.A.
- 14.5. Environmental hazards
 - N.A.
- 14.6. Special precautions for user N.A.

E405 (SL004L)/1 Page n. 6 of 8



14.7. Maritime transport in bulk according to IMO instruments N.A.

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) n. 2020/878 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) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 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:

H314 Causes severe skin burns and eye damage. EUH071 Corrosive to the respiratory tract.

Hazard class and hazard category	Code	Description
Skin Corr. 1	3.2/1	Skin corrosion, Category 1
Eye Dam. 1	3.3/1	Serious eye damage, Category 1

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

E405 (SL004L)/1 Page n. 7 of 8



Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Corr. 1, H314	Calculation method
Eye Dam. 1, H318	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
лтг.	Dangerous Goods by Road.
ATE: ATEmix:	Acute Toxicity Estimate Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical
CAS.	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.