Extra Strong rinse aid C21

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

1.1. Identification of the product

Product identifier EXTRA STRONG RINSE AID C21
Product code: **0S2283**

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

Rinse aid for ovens
Sectors of use:
Professional uses [SU22]

Uses advised against
Do not use for purposes other than those stated.

1.3. Details of the supplier of the safety data sheet

Distributed by:
Electrolux Professional S.p.A.
Viale Treviso, 15
Pordenone (PN) Italy
Tel. +39 0434 3801

1.4. Emergency telephone number

NCEC: +44 1865 407333
Ireland (IR): Poisons Information Centre +353 (0)1 809 2166
United Kingdom (UK): Electrolux Professional Spa – Tel. +39 0434 3801 Mon. – Fri. 08.00 - 17.00 GMT +1

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification in compliance with EC Regulation No. 1272/2008:

Pictograms:
None.

Hazard class and category codes:
Non-hazardous

Hazard statement codes:
Non-hazardous

2.2. Label elements

Labelling in compliance with EC Regulation No. 1272/2008:
Hazard pictograms and signal words:
None.
Hazard statement codes:
Non-hazardous.
Other hazard statement codes:
EUH210 - Safety Data Sheet available on request.

Precautionary statements:
No particular information.

Contains (EC Regulation No. 648/2004): > 5% <15% Non-ionic surfactants

2.3. Other hazards

The substance/mixture DOES NOT contain PBT/vPvB substances according to EC Regulation 1907/2006, Annex XIII.

No information on other hazards.

SECTION 3. Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Refer to Section 16 for the complete text regarding hazard statements.
NB: SUBSTANCES INDICATED WITH (*) PRESENT SPECIFIC LIMITS

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Etanolo (*)	> 5 <= 10%	Flam. Liq. 2, H225 Eye Irrit. 2, H319	603-002-00-5	64-17-5	200-578-6	01-2119457610-43
Alcohols, C12-14, ethoxylated propoxylated	>5 <= 10%	Aquatic Chronic 3, H412	n.d.	68439-51-0	n.d.	n.d.
Isopropanol (*)	> 1 <= 5%	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	603-117-00-0	67-63-0	200-661-7	01-2119457558-25
Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated	> 1 <= 5%	Eye Irrit. 2, H319; Aquatic Chronic 3, H412	n.d.	501019-90-5	n.d.	n.d.
Sodium Cumenesulphonate	> 1 <= 5%	Eye Irrit. 2, H319	n.d.	15763-76-5	239-854-6	01-2119489411-37
Citric acid	> 1 <= 5%	Eye Irrit. 2, H319	n.d.	77-92-9	201-069-1	01-2119457026-42

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:
Ventilate the area. Immediately remove the patient from the contaminated area and allow them to rest in a well-ventilated area. In case of illness consult a doctor.

Direct contact with skin (undiluted product):
Wash with plenty of soap and water.

Direct contact with eyes (undiluted product):
Immediately flush eyes with plenty of water for at least 10 minutes.

Ingestion:
Rinse out mouth. It is possible to administer activated carbon suspended in water or medicinal white mineral oil.

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

No information available.

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

No information available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water fog, CO2, foam, chemical powders depending on the materials involved in the fire.
Unsuitable extinguishing media:
Use water spray only to cool surfaces of containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

Use respiratory protection equipment.
Safety helmet and complete protective clothing.
Water fog can be used to protect people involved in firefighting.
It is furthermore recommended to use self-contained breathing apparatus, especially when operating in confined and poorly-ventilated spaces, and in any case when using halogenated extinguishers (fluobrene, solkane 123, naf, etc.).
Cool containers with water spray.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:
Move away from the area of spillage or discharge. Do not smoke.

6.1.2 For emergency personnel:
Wear gloves and protective clothing.
Extinguish all naked flames and sources of ignition. Do not smoke.
Provide adequate ventilation.
Evacuate the area of danger and, if necessary, consult an expert.

6.2. Environmental precautions

Contain leaks with earth or sand.
If the product has flowed into a watercourse, sewage system or has contaminated soil or vegetation, contact the competent authorities. Dispose of the residue according to regulations in force.

6.3. Methods and material for containment and cleaning-up

6.3.1 For containment
Collect the product for re-use, if possible, or for disposal. If necessary, absorb with inert material.
Prevent it from entering the sewage system.

6.3.2 For cleaning
Following collection, wash the area and affected materials with water.

6.3.3 Other information:
No particular information.

6.4. Reference to other sections

If appropriate, Sections 8 and 13 shall be referred to.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of fumes.
Do not eat or drink in work areas.
See also Section 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in the original container, securely closed. Do not store in open or unlabelled containers.
Keep the containers in an upright and safe position, avoiding possible falls or knocks.
Store in a cool location, far from sources of heat and direct exposure to sunlight.

7.3. Specific end use (s)

Professional uses:
Handle with care. Store in a well-ventilated location, far from sources of heat. Keep the container securely closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Relative to the substances contained:

Isopropanol (*)
Workers – Inhalation; Long-term systemic effects = 500 (mg/m3)
Workers – Dermal; Long-term systemic effects = 888 (mg/kg bw/day)
Consumers – Inhalation; Long-term systemic effects = 89 (mg/m3)
Consumers – Dermal; Long-term systemic effects = 319 (mg/kg bw/day)
Consumers – Oral; Long-term systemic effects = 26 (mg/kg bw/day)
PNEC
Fresh water = 140.9 (mg/l)
Fresh water sediment = 552 (mg/kg/sediment)
Seawater = 140.9 (mg/l)
Seawater sediment = 552 (mg/kg/sediment)
Periodic emission = 140.9 (mg/l)
Soil = 28 (mg/kg Soil)

Sodium Cumensulphonate
DNEL
Workers – Inhalation; Long-term systemic effects = 53.6 (mg/m3)
Workers – Dermal; Long-term systemic effects = 7.6 (mg/kg bw/day)
Consumers – Inhalation; Long-term systemic effects = 13.2 (mg/m3)
Consumers – Dermal; Long-term systemic effects = 3.8 (mg/kg bw/day)
Consumers – Oral; Long-term systemic effects = 3.8 (mg/kg bw/day)
PNEC
Fresh water = 0.23 (mg/l)
Periodic emission = 2.3 (mg/l)

Citric acid
PNEC
Fresh water = 0.44 (mg/l)
Fresh water sediment = 3.46 (mg/kg/Sediment)
Seawater = 0.044 (mg/l)
Seawater sediment= 34,6 (mg/kg/Sediment)
STP = 1000 (mg/l)
Soil = 33,1 (mg/kg Soil)

8.2. Exposure controls

Suitable technical controls:
Professional uses:
No controls expected.

Individual protection measures:

a) Eye/face protection
Unnecessary in normal use.

b) Skin protection:
i) Hand protection
Unnecessary in normal use.
ii) Other
Wear standard work clothing.

c) Respiratory protection
Unnecessary in normal use.

d) Thermal hazards
No hazard indicated.

Environmental exposure controls:
Adopt good working practices, so that the product is not released into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Method of determination
Appearance	clear light blue liquid	
Odour	faint characteristic	
Odour threshold	not available	
pH	2.5 +/- 0.5	
Melting point/freezing point	< 0°C	
Initial boiling point and boiling range	approximately 100°C	
Flash point	> 70°C	
Evaporation rate	not available	
Flammability (solid, gas)	non-inflammable	
Upper/lower flammability or explosive limits	non-inflammable	
Vapour pressure	not available	
Vapour density	not available	
Relative density	0.990 g/ml	
Solubility(ies)	in water	
Water solubility	dispersible	
Partition coefficient (n-octanol/water)	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
Viscosity	not available	
Explosive properties	non-explosive	
Oxidising properties	non-oxidising	

9.2. Other information
No information available.

SECTION 10. Stability and reactivity

10.1. Reactivity
No risk of reactivity.

10.2. Chemical stability
The product is stable.

10.3. Possibility of hazardous reactions

No hazardous reactions if handled and stored according to instructions.

10.4. Conditions to avoid

None specified.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Does not decompose if used as intended.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = n.a.
ATE(mix) dermal = n.a.
ATE(mix) inhal = n.a.

(a) Acute toxicity: Based on available data, the classification criteria are not met.
(b) Skin corrosion/irritation: Based on available data, the classification criteria are not met.
(c) Serious eye damage/irritation: Based on available data, the classification criteria are not met.
(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.

Relative to the substances contained:

Etanolo (*)
LD50 Oral (rat) (mg/kg of body weight) = 10470
LD50 Skin (rat or rabbit) (mg/kg of body weight) = 20000
CL50 Inhalation (rat) of vapour/dust/aerosol/smoke (mg/l/4h) or gas (ppmV/4h) = 124.7

Alcohols, C12-14, ethoxylated propoxylated
LD50 Oral (rat) (mg/kg of body weight) = 2000
LD50 Skin (rat or rabbit) (mg/kg of body weight) = 5000

Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated
LD50 Oral (rat) (mg/kg of body weight) = 2000

Sodium Cumensulphonate
LD50 Oral (rat) (mg/kg of body weight) = 7000
LD50 Skin (rat or rabbit) (mg/kg of body weight) = 2000

Citric acid
LD50 Oral (rat) (mg/kg body weight) = 5400
LD50 Skin (rat or rabbit) (mg/kg of body weight) = 2000

SECTION 12. Ecological information

12.1. Toxicity

Relative to the substances contained:

Etanolo (*)
LD50 (fish): > 12000 mg/l (96h)
EC50 (daphnia): > 10000 mg/l (48h)
EC50 (algae): > 200 mg/l (72h)

Alcohols, C12-14, ethoxylated propoxylated
C(E)L50 (mg/l) = 1

Sodium Cumensulphonate
LC50 (fish): > 1000 mg/l (96h)
EC50 (daphnia): > 1000 mg/l (48h)
EC50 (algae): > 230 mg/l (96h)
EC10 (microorganisms) : > 1000 mg/l (3h)

Citric acid
LC50 (fish): 440 mg/l (48h)
LC50 (daphnia): 1535 mg/l (24h)
NOEC (algae): 425 mg/l (8d)
TT (microorganisms): >10000 mg/l (16h)

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

12.2. Persistence and degradability
Relative to the substances contained:

Sodium Cumensulphonate
Degradability: 99.8% (28d) (OECD Guideline 301 B)

Citric acid
Biodegradability = 97% (28d) (OECD Guideline 301 B)
Readily biodegradable.

12.3. Bioaccumulative potential
No information available.

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment
The substance/mixture DOES NOT contain PBT/vPvB substances according to EC Regulation 1907/2006, Annex XIII.

12.6. Other adverse effects
No adverse effects found.

Regulation (EC) n. 2006/907 - 2004/648
The surfactant(s) contained in this mixture conform(s) to the criteria of biodegradability established by regulation EC/648/2004 regarding detergents. All support data is held available for the competent authorities of the Member States and will be supplied on explicit request or on the request of a producer of the mixture, to the afore-mentioned authorities.

SECTION 13. Disposal considerations

13.1. Waste treatment methods
Do not reuse empty containers. Dispose of them according to regulations in force. Any product residue must be disposed of according to regulations in force by contacting authorised companies.
Collect if possible. Operate according to local and national regulations in force.

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SECTION 14. Transport information

14.1. UN Number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None.

14.3. Transport hazard class(es)

None.

14.4. Packing group

None.

14.5. Environmental hazards

None.

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk is not foreseen.

SECTION 15. Regulatory information

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

Legislative Decree no. 52 of 3/2/1997 (Classification, packaging and labelling of hazardous substances). Legislative Decree no. 65 of 14/03/2003 (Classification, packaging and labelling of hazardous substances). Legislative Decree no. 25 of 2/2/2002 (Risks deriving from chemical agents at work). Ministry of Labour Decree 26/02/2004 (Professional exposure limits); Ministerial Decree 03/04/2007 (Implementation of Directive no. 2006/8/EC). EC Regulation no. 1907/2006 (REACH), EC Regulation no. 1272/2008 (CLP), EC Regulation no. 790/2009, Legislative Decree no. 238 of 21 September 2005 (Seveso III Directive).

15.2. Chemical safety assessment

The supplier has not carried out a chemical safety assessment.

SECTION 16. Other information

16.1. Other information

Description of hazard statements in Section 3
H225 = Highly flammable liquid and vapour.
H319 = Causes serious eye irritation.
H412 = May cause long lasting harmful effects to aquatic life.
H336 = May cause drowsiness or dizziness.

Classification carried out according to data regarding all the components of the mixture

Main legislative references:
Directive 2001/60/EC
Regulation 2008/1272/EC
Regulation 2010/453/EC

*** This sheet cancels and substitutes all previous versions.