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# **HEALTH AND SAFETY DATA SHEET**

###### ELECTROLUX EXTRA STRONG RINSE AID C21

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| **Section 1: Identification of the substance** | |
| 1.1 Product identifier | Electrolux Extra Strong Rinse Aid C21  Product code OS2283 |
| 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 Emergency Tel: | Electrolux Professional Tel. +39 0434 3801  Mon – Fri 08:00-17:00 GMT +1 |
| **Section 2: Hazards Identification** | |
| 2.1 Classification of the substance or mixture | 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  Etanolo (\*) >5<=10%, Flam. Liq. 2 H225 , Eye Irrit. 2 H319; Index 603-002-00-5; CAS 64-17-5; EINECS 200-578-6; REACH 01-2119457610-43  Alcohols, C12-14. ethoxylated propoxylated >5<=10%, Aquatic Chronic 3 H412; Index n.d.; CAS 68439-51-0; EINECS n.d.; REACH n.d.  Isopropanol (\*) >1<=5%, Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE £ H336; Index 603-117-00-0; CAS 67-63-0; EINEC 200-661-7; REACH 01-2119457558-25  Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated >1<=5%; Eye Irrit. 2 H319, Aquatic Chronic 3 H412; Index n.d.; CAS 501019-90-5; EINECS n.d.; REACH n.d.  Sodium Cumensulphonate >1<=5%; Eye Irrit. 2 H319; Index n.d.; CAS 15763-76-5; EINECS 239-854-6; REACH 01-2119489411-37  Citric acid >1<=5%; Eye Irrit. 2 H319; Index n.d.; CAS 77-92-9; EINECS 201-069-1; REACH 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: Fire Fighting 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 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 section | 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 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 specific 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: | |
| 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 applicable |
| Flammability (solid, gas) | Non-inflammable |
| Upper/lower flammability or explosive limits | Non-inflammable |
| Vapour pressure | Not available |
| Vapour density | Not available |
| Relative density | 0.990g/ml |
| Solubility | 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: Corrosive product: causes severe skin burns and eye damage.  c) Serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage.  d) Respiration 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/1/4h) 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-E[pxodes, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated  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 of 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 containes:  Etanolo (\*)  LD50 (fish): >12000 mg/l (96h)  EC50 (daphnia): >10000 mg/l (48h)  EC50 (algae): >200 mg/l (72h)  Alcohols, C12-14, ethoxylated popoxylated  C€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): 440mg/l (48h)  LC50 (daphnia): 1353 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 Cumensulphate  Degradability: 99.8% (28d) (OECD Guideline 301B)  Citric Acid  Biodegradability = 97% (28d) (OECD Guideline 301B) |
| 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. |
| EC Regulation No. 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 the producer of the mixture, to the aforementioned 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. | |
| **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 used  No information available. | |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 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). EU 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**  Description of hazard statements in Section 3:  H225 = Highly flammable liquid and vapour.  H319 = Causes serious eye damage.  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 | |
| **Further information**  The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product. | |
| Date: 20/10/2017 Revision No: 1  Compliant with EU Regulation 2015/830 | |