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HEALTH AND SAFETY DATA SHEET ELECTROLUX EXTRA STRONG DETERGENT C20

Section 1: Identification of the substance		measures provided for the same Legislative Decree are sufficient in reducing the risk.	
1.1 Product identifier	Electrolux Extra Strong Detergent C20 Product code OS2282	Section 3: Composition / Information on ingredients	
1.2 Relevant identified uses of the substance or mixture and uses advised against	Detergent for automatic washing ovens Sectors of use: Professional uses [SU22] Uses advised against: Do not use for purposes other than those stated.	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	
1.3 Emergency Tel:	Electrolux Professional Tel. +39 0434 3801 Mon – Fri 08:00-17:00 GMT +1	POTASSIUM HYDROXIDE (*) concentration $\geq 5 \leq 10\%$; Classification Met. Corr. 1, H290; Acite Tox. 4, H302; Skin Corr. 1A, H314 ; Index 019-002-00-8 ; CAS 1310-58-3 ; EINECS 215-181-3 ; REACH 01-2119487136-33 SODIUM HYDROXIDE (*) concentration $> 1 < 5\%$; Classification Met. Corr. 1, H290; Skin Corr. 1A, H314 ; Index 011-002-00-6 ; CAS 1310-73-2 ; EINECS 215-185-5 ; REACH 01-2119457892-27 HEXYL D-GLUCOSIDE Concentration $> 1 < 5\%$; Classification Eye Dam.1, H318 ; Index n.d. ; CAS 54549-24-5 ; EINECS 259-217-6 ; REACH 01-2119492545-29	
Section 2: Hazards Identification		Section 4: First Aid Measures	
2.1 Classification of the substance or mixture	Classification in compliance with EC Regulation No. 1272/2008 Pictograms: GHS05 Hazard class and category codes: Met. Corr. 1, Skin Corr. 1A Hazard statement codes: H290 – May be corrosive to metals H314 – Causes severe skin burns and eye damage The product may be corrosive to metals. Corrosive product: causes severe skin burns and eye damage.	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): Immediately remove the contaminated clothing. In case of contact with skin, immediately and thoroughly rinse with water. Immediately consult a doctor. Direct contact with eyes (undiluted product): Rinse immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with a dry sterile gauze. Obtain a medical examination immediately. Do not use eyewashes or ointments of any kind before examination and advice from an eye specialist. Ingestion: Give water with egg white; do not give bicarbonate. Do not induce vomiting or emesis under any circumstance. Obtain a medical examination immediately.
2.2 Label Elements Labelling in compliance with EC Regulation No. 1272/2008:		4.2 Most important symptoms and effects, both acute and delayed	No information available.
Hazard pictograms and signal words: GHS05 – Danger Hazard statement codes: H290 – May be corrosive to metals. H314 – Causes severe skin burns and eye damage. Other hazard statement codes: not available.	Precautionary Statements: Prevention P280 – Wear protective gloves / eye protection. Reaction P301+P330+P331 – IF SWALLOWED: rinse mouth. DO NOT induce vomiting. P303+P361+P353 – IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/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. P310 – Immediately call a POISON CENTER / doctor. Disposal P501 – Dispose of contents/container according to local regulations. Contains: Potassium Hydroxide (*), Sodium Hydroxide (*) Contains (EC Regulation No. 648/2004): <5% Phosphonates, Non-ionic surfactants.	4.3 Indication of any immediate medical attention and special treatment needed	Immediately call a POISON CENTER/doctor.
2.3 Other hazards	The substance/mixture DOES NOT contain PBT/vPvB substances according to EC Regulation 1907/2006, Annex XIII The use of this chemical agent requires “Risk evaluation” by the employer according to the provisions of Legislative Decree No. 81 of 9 April 2008. Employees exposed to this chemical agent to not need to undergo health monitoring if the results of the risk evaluation demonstrate that, in relation to the type and quantity of hazardous chemical agent and the method and frequency of exposure to such agents, there is only “Moderate risk” to the health and safety of the workers and that the	Section 5: Fire Fighting Measures	
		5.1 Extinguishing media	Suitable extinguishing media: Water fog, CO ₂ , 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

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	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 a mask, 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: Quickly collect the product, wearing a mask and protective clothing. 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:	
<p>POTASSIUM HYDROXIDE (*) TLV/TWA: 2mg/m3 TLV/STEL: 2mg/m3 , 0.87 ppm DNEL Workers – Inhalation; Long-term local effects = 1</p> <p>SODIUM HYDROXIDE (*) TWA (8hr): 2mg/m3 (Ceiling value) (ACGIH 2004) DNEL Workers – Inhalation; Long-term local effects = 1 Consumers – Inhalation; Long-term local effects = 1 (mg/m3)</p> <p>HEXYL D-GLUCOSIDE DNEL Workers – Inhalation; Long-term systemic effects = 420 (mg/m3) Workers – Dermal; Long-term systemic effects = 595000 (mg/kg bw/day) Consumers – Inhalation; Long-term systemic effects = 124 (mg/m3) Consumers – Dermal; Long-term systemic effects = 357000 (mg/kg bw/day) Consumers – Oral; Long-term systemic effects = 35.7 (mg/kg bw/day) PNEC Fresh water = 0.176 (mg/l) Fresh water sediment = 0.722 (mg/kg/sediment) Seawater = 0.018 (mg/l) Seawater sediment = 0.072 (mg/kg/sediment) STP = 100 (mg/l) Soil = 0.654 (mg/kg Soil)</p>	
8.2 Exposure controls	Suitable technical controls: Professional uses: No specific controls expected. Individual protection measures: a) Eye/face protection Wear safety glasses (cage glasses) with side protection when handling undiluted product (EN 166) b) Skin protection: i) Hand protection Wear chemical-resistant protective gloves when handling undiluted product (EN 374-1/EN374/2/EN374-3) 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 yellowish liquid
Odour	Faint characteristic
Odour threshold	Not available
pH	>13
Melting point/freezing point	< 0° C
Initial boiling point and boiling range	> 100° C
Flash point	Non-inflammable (method of determination ASTM D92)
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	117g/ml
Solubility	In water
Water solubility	Complete
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	Relative to the substances contained: PotassiumHydroxide (*) Exothermic reaction to water. Violent reaction to acids. SodiumHydroxide (*) Exothermic reaction to water. Reaction to acids and alkali earth metals. Reacts to aluminium or its alloys in the presence of water forming hydrogen.

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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	No specific information.
10.5 Incompatible materials	Aluminium and light alloys.
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 = 5.142,9 mg/kg 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:	
PotassiumHydroxide (*): LD50 Oral (rat) (mg/kg of body weight) = 333	
Hexyl D-glucoside: LD50 Oral (rat) (mg/kg of body weight) = 2000 LD50 Skin (rat or rabbit) (mg/kg of body weight) = 2000	
Section 12: Ecological Information	
12.1 Toxicity	Relative to the substances contained: PotassiumHydroxide (*): LC50 (fish): 80 mg/l (96h) SodiumHydroxide (*): LC50 (fish): 189 mg/l (96h) EC50 (daphnia): 40.4 mg/l (48h) Hexyl D-glucoside: LD50 (fish): >100 mg/l (96h) EC50 (daphnia): >100 mg/l (48h) EC50 (algae): >100 mg/l (72h) Adopt good working practices, so that the product is not released into the environment.
12.2 Persistence and degradability	No information available.
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. Send to an authorised waste disposal or incineration plant. Operate according to local and national regulations in force.
Section 14: Transport Information
14.1. UN Number ADR/RID/IMDG/CAAO-IATA: 1719 Possible ADR exemption if the following characteristics are satisfied: Combined packaging: inner packaging 1L package 30Kg Inner packaging placed in trays with shrink or stretch film: inner packaging 1L package 20Kg
14.2. UN proper shipping name ADR/RID/IMDG: LIQUIDO ALCALINO CAUSTICO N.A.S. (Potassio idrossido, Sodio idrossido) ICAO-IATA: CAUSTIC ALKALI LIQUID, N.O.S. (PotassiumHydroxide, SodiumHydroxide)
14.3. Transport hazard class(es) ADR/RID/IMDG/CAAO-IATA: Class 8 ADR/RID/IMDG/CAAO-IATA: Label: 8 ADR: Tunnel restriction code: E ADR/RID/IMDG/CAAO-IATA: Limited quantities: 1L IMDG EmS: F-A, S-B
14.4. Packing group ADR/RID/IMDG/CAAO-IATA: II
14.5. Environmental hazards ADR/RID/CAAO-IATA: Product not hazardous to the environment IMDG: Marine pollutant: No
14.6. Special precautions for used Transportation must be carried out by vehicles authorised for the transportation of hazardous goods according to the provisions of the latest version of the ADR Agreement and applicable national regulations. Transportation must be carried out in original packaging and, in any case, in packaging which is composed of materials which are resistant to the contents and not susceptible to creating hazardous reactions with the same. Workers responsible for the loading and unloading of hazardous goods must have received suitable training regarding the risks presented by the mixture and any procedures to be adopted in case of emergency.
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: H290 = May be corrosive to metals H302 = Harmful if swallowed. H314 = Causes severe skin burns and eye damage H318 = Causes serious eye damage
Classification carried out according to data regarding all the components of the mixture
Main legislative references: Directive2001/60/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

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