

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

### 1.1. Identification of the product

Product identifier EXTRA STRONG DETERGENT C20

Product code: **0S2282**

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

Detergent for automatic washing of 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

Malta (MT): +356 112

## 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:

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.

### 2.2. Label elements

Labelling in compliance with EC Regulation No. 1272/2008:

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



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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:

PotassiumHydroxide (\*), Sodium Hydroxide (\*)

Contains (EC Regulation No. 648/2004): &lt; 5% Phosphonates, Non-ionic surfactants.

## 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 do 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 measures provided for in the same Legislative Decree are sufficient in reducing the risk.

## 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
PotassiumHydroxide (*)	>= 5 <= 10%	Met. Corr. 1, H290; Acute Tox. 4, H302; Skin Corr. 1A, H314	019-002-00-8	1310-58-3	215-181-3	01-2119487136-33
SodiumHydroxide (*)	> 1 < 5%	Met. Corr. 1, H290; Skin Corr. 1A, H314	011-002-00-6	1310-73-2	215-185-5	01-2119457892-27
Hexyl D-glucoside	> 1 < 5%	Eye Dam. 1, H318	n.d.	54549-24-5	259-217-6	01-2119492545-29

## 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):

Immediately remove 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.

**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**

Immediately call a POISON CENTER/doctor.

**SECTION 5. Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media:

Water fog, CO<sub>2</sub>, 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 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.

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*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:

**Potassium Hydroxide (\*)**TLV/TWA : 2 mg/m<sup>3</sup>TLV/STEL : 2 mg/m<sup>3</sup> , 0.87 ppm

DNEL

Workers - Inhalation; Long-term local effects = 1

**Sodium Hydroxide (\*)**TWA (8hr): 2 mg/m<sup>3</sup> (Ceiling value) (ACGIH 2004)

DNEL

Workers - Inhalation; Long-term local effects = 1

Consumers - Inhalation; Long-term local effects = 1 (mg/m<sup>3</sup>)**Hexyl D-glucoside**

DNEL

Workers - Inhalation; Long-term systemic effects = 420 (mg/m<sup>3</sup>)

Workers - Dermal; Long-term systemic effects = 595000 (mg/kg bw/day)

Consumers - Inhalation; Long-term systemic effects = 124 (mg/m<sup>3</sup>)

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)

**8.2. Exposure controls**

Suitable technical controls:

Professional uses:

No specific controls expected.

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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

Physical and chemical properties	Value	Method of determination
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	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	1.17 g/ml	
Solubility(ies)	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.

### 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) 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:

#### 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:

**Potassium Hydroxide (\*):**

LC50 (fish): 80 mg/l (96h)

**Sodium Hydroxide (\*):**

LC50 (fish): 189 mg/l (48h)

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 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. 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/ICAO-IATA: 1719

Possible ADR exemption if the following characteristics are satisfied:

Combined packaging: inner packaging 1 L package 30 Kg

Inner packaging placed in trays with shrink or stretch film: inner packaging 1 L package 20 Kg



### 14.2. UN proper shipping name

ADR/RID/IMDG: LIQUIDO ALCALINO CAUSTICO N.A.S. (Potassio idrossido, Sodio idrossido)

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ICAO-IATA: CAUSTIC ALKALI LIQUID, N.O.S. (PotassiumHydroxide, SodiumHydroxide)

**14.3. Transport hazard class(es)**

ADR/RID/IMDG/ICAO-IATA: Class: 8

ADR/RID/IMDG/ICAO-IATA: Label: 8

ADR: Tunnel restriction code: E

ADR/RID/IMDG/ICAO-IATA: Limited quantities: 1 L

IMDG EmS: F-A, S-B

**14.4. Packing group**

ADR/RID/IMDG/ICAO-IATA: II

**14.5. Environmental hazards**

ADR/RID/ICAO-IATA: Product not hazardous to the environment

IMDG: Marine pollutant: No

**14.6. Special precautions for user**

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 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

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:

Directive 2001/60/EC

Regulation 2008/1272/EC

Regulation 2010/453/EC

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