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DUONETT D7

100321600

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

1.1. Product identifier

Trade name : DUONETT D7

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

advised against

 1.2.1 Relevant identified uses
 : Descaling product

 1.3. Details of the supplier of the safety data sheet
 : DEHON SERVICE

 26 Avenue du Petit Parc

94683 VINCENNES Cedex France

Tel: +33 (0) 1 43 98 75 00 Fax: +33 (0) 1 43 98 21 51 : ContactFDS@climalife.dehon.com

e-mail : Conta 1.4 Emergency telephone number : EME

: EMERGENCY TELEPHONE NUMBER (24h/24): + 33 (0) 1 72 11 00 03 Anti-poison Center: INRS/ORFILA (France): +33 (0) 1 45 42 59 59

Anti-poison Center: INRS/ORFILA (France): +33 (0) 1 45 42
Anti-poison Centre (Belgium): +32 70 245 245
Anti-poison Centre (Spain): +34 91 562 04 20

Anti-poison Centre (Finland/Estonia): +358 9 471977 Anti-poison Centre (Netherlands): +31 30 274 8888 Anti-poison Centre (United Kingdom): +44 870 600 6266 Poisons Information Centre (Hungary): +36 80 201 199

SECTION 2 Hazards identification

2.1. Classification of the substance or

mixture

2.1.1. Regulation (EC) No 1272/2008 (: Not classified as dangerous product.

CLP)

2.2. Label elements

2.2.1 Labelling EC 1272/2008 (CLP)

Supplemental hazard information : EUH210 : Safety data sheet available on request

: Mixture

2.3. Other hazards : May be harmful if swallowed.

Slightly irritating to skin
Causes eye irritation.

SECTION 3 Composition/information on ingredients

3.1./3.2. Substance / Mixture

Components contributing to the

hazard:

 Substance name
 Contents
 CAS No
 EC No
 Index No
 Ref REACH
 Classification

 Hydrochloric acid
 : 5 to 10 %
 7647-01-0
 231-595-7
 017-002-01-X
 01-2119484862-27
 C; R34 X; R37

Skin Corr. 1B;H314

.

In case of emergency: +33 (0) 1 72 11 00 03

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SECTION 4 First aid measures

Ingestion

4.1. Description of first aid measures

Inhalation : Not specifically applicable (aqueous liquid)

In case of troubles: Move the affected person to the fresh air

If breathing difficulties persist: Seek medical advice.

Skin contact : Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention

Eye contact : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

Do not give anything to drink. Do not induce vomiting.

Call a doctor immediately

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

Inhalation: May cause irritation to the respiratory tract.Skin contact: May cause slight irritation to the skin

Prolonged or repeated contact may cause skin to become dry.

Eye contact : Eye irritation.

Redness.

Watering of the eyes

Swelling.

Ingestion : Irritation to the digestive tract

Nausea Vomiting Diarrhoea

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 : All extinguishing agents can be used

5.2. Special hazards arising from the : No data

substance or mixture
5.3. Advice for firefighters

Protection of fire-fighters : Impermeable protective equipment

Self-contained breathing apparatus

SECTION 6 Accidental release measures

6.1. Personal precautions, protective : Avoid contact with skin and eyes

equipment and emergency procedures Do not attempt to fight the fire without suitable protective equipment

Ventilate spillage area

6.2. Environmental precautions : Wash contaminated area with large amounts of water

6.3. Methods and material forcontainment and cleaning up
: Absorb spillage with:
- sodium bicarbonate

Dispose of contaminated materials in accordance with current regulations.

6.4 Reference to other sections : For further information refer to section 8 "Exposure controls/personal protection"

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SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions : Work in a well-ventilated area

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

Industrial hygiene : Always wash your hands immediately after handling this product, and once again before

leaving the workplace

Do not drink, eat or smoke in the workplace

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

- Recommended : Keep the container hermetically sealed

Store

- at temperature between 12 °C and 81 °C

- in a well-ventilated area

Incompatible products : Strong oxidizing agents Alkalis and caustic products

Packaging materials

- Recommended : Original packaging

7.3. Specific end use(s) : No data

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational Exposure Limits : Hydrochloric acid : European Union : VME (8h; mg/m³) : 8

Hydrochloric acid: European Union: VME (8h; ppm): 5
Hydrochloric acid: European Union: VLE (15min; mg/m³): 15
Hydrochloric acid: European Union: VLE (15min; ppm): 10
Hydrochloric acid: France: LEP - VLE (15min; mg/m³): 7.6
Hydrochloric acid: France: LEP - VLE (15min; ppm): 5
Hydrochloric acid: United Kingdom: WEL - TWA (8h; mg/m³): 2
Hydrochloric acid: United Kingdom: WEL - STEL (15min; mg/m³): 1
Hydrochloric acid: United Kingdom: WEL - STEL (15min; mg/m³): 8
Hydrochloric acid: United Kingdom: WEL - STEL (15min; ppm): 5
Hydrochloric acid: Germany: MAK - TWA (8h; mg/m³): 3
Hydrochloric acid: Germany: MAK - TWA (8h; ppm): 2
Hydrochloric acid: Germany: MAK - STEL (15min; mg/m³): 6

Hydrochloric acid: Germany: MAK - STEL (15min; ppm): 4
Hydrochloric acid: Hungary: ÁK - TWA (8h; mg/m³): 8
Hydrochloric acid: Hungary: ÁK - STEL (15min; mg/m³): 16
Hydrochloric acid: Netherlands: MAC - TWA (8h; mg/m³): 8
Hydrochloric acid: Netherlands: MAC - STEL (15min; mg/m³): 8
Hydrochloric acid: Belgium: GWBB - TWA (8h; mg/m³): 8
Hydrochloric acid: Belgium: GWBB - TWA (8h; mg/m³): 8
Hydrochloric acid: Belgium: GWBB - TWA (8h; ppm): 5
Hydrochloric acid: Belgium: GWBB - STEL (15min; mg/m³): 15
Hydrochloric acid: Belgium: GWBB - STEL (15min; ppm): 10
Hydrochloric acid: USA (OSHA): PEL - STEL (15min; mg/m³): 7
Hydrochloric acid: Switzerland: LEP - VME (8h; ppm): 2
Hydrochloric acid: Switzerland: LEP - VME (8h; ppm): 2
Hydrochloric acid: Switzerland: LEP - VLE (15min; mg/m³): 6

Hydrochloric acid: Switzerland: LEP - VLE (15min; ppm): 4

8.2. Exposure controls Personal protection :

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SECTION 8 Exposure controls/personal protection (continued)

- Respiratory protection : If the ventilation is suitable, it is not essential to wear respiratory equipment

If vapour is released: Self-contained breathing apparatus

- Hand protection
 - Eye protection
 : Protective gloves made of rubber
 : Safety spectacles with side shields

- Skin protection : Protective clothing

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and

chemical properties 9.1.a. Appearance

Physical state: LiquidColour: Brown9.1.b. Odour: almonds

9.1.c. Odour threshold9.1.d. pHNo information availableNot applicable (<3)

9.1.e. Melting point / Freezing point : -26 $^{\circ}$ C 9.1.f. Initial boiling point - boiling : 100 $^{\circ}$ C

range

9.1.g. Flash point : Not applicable

9.1.h. Evaporation rate : No information available

9.1.i. Flammability : Non flammable.9.1.j. Explosion limits (lower - upper) : Not applicable

9.1.k. Vapour pressure : No information available

9.1.I. Vapour density : > 1 **9.1.m.** Relative density : 1.045

9.1.n. Solubility

-in water : Complete

9.1.o. Partition coefficient: n-octanol /: No information available

water

9.1.p. Auto-ignition temperature: No information available9.1.q. Thermal decomposition: No information available9.1.r. Viscosity: No information available

9.1.s. Explosive Properties
9.1.t. Oxidising properties
Not explosive material according to EC criteria
Non oxidizing material according to EC criteria

9.2. Other information

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SECTION 10 Stability and reactivity

10.1. Reactivity : No dangerous reactions known under normal conditions of use

No dangerous polymerization.

10.2. Chemical stability : Stable at ambient temperature and under normal conditions of use

10.3. Possibility of hazardous : No information available

reactions

10.4. Conditions to avoid: Extremely high or low temperatures.10.5. Incompatible materials: - alkalis and caustic products

chlorinated solvents.strong oxidizing agents

10.6. Hazardous decomposition

products

: No hazardous decomposition products known

SECTION 11 Toxicological information

11.1. Information on toxicological

effects

• Acute toxicity : May be harmful if swallowed.

On ingredients

Hydrochloric acid : Rat oral LD50 [mg/kg] : 700

: Rabbit dermal LD50 [mg/kg] : > 5010 : Rat inhalation LC50 [mg/l/1h] : 3124

Skin corrosion/irritation
 Slightly irritating to skin
 Serious eye damage/irritation
 Causes eye irritation.

Respiratory or skin sensitisation
 Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 No sensitizing effect is known
 No information available
 No information available

• Aspiration hazard : No information available

SECTION 12 Ecological information

12.1. Toxicity : This product does not present any particular risk for the environment

 12.2. Persistence and degradability
 : Readily biodegradable

 12.3. Bioaccumulative potential
 : Not potentially bioaccumulable.

12.4. Mobility in soil : In water, material soluble. Very mobile in soil.

12.5. Results of PBT and vPvB

assessment

: This mixture contains no substance meeting PBT and vPvB criteria

12.6. Other adverse effects

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SECTION 13 Disposal considerations

13.1. Waste treatment methods WASTE FROM PRODUCT :

Destruction/Disposal : Neutralize prior to disposal (pH between 5.5 and 8.5) with : - water. - sodium bicarbonate

CONTAMINATED PACKAGING:

Decontamination/cleaning : Empty the packaging completely prior to disposal

Clean with water

Destruction/Disposal : Recycle following cleaning or dispose of at an authorised site

NOTE : The user's attention is drawn to the possible existence of specific european, national or local

regulations regarding disposal

SECTION 14 Transport information

RID/ADR/IMDG/IATA : Not regulated

SECTION 15 Regulatory information

15.1. Safety, health and environmental: Ensure all national/local regulations are observed.

regulations/legislation specific for the

substance or mixture

15.2. Chemical safety assessment : No information available

SECTION 16 Other information

Further information : Product for industrial use only

For more information regarding the use of this product, please refer to our technical

information or contact the sales department in your region

Text of R-Phrases in § 3 : R34 : Causes burns.

R37 : Irritating to respiratory system.

Text of H-Phrases in § 3 : H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

* **Update** : Modifications are indicated by an asterisk (*)

This sheet complements the technical sheets but does not replace them. The information given is based on our knowledge of the product, at the time of publication. It is given in good faith.

Besides, the attention of the user is drawn to the possible risks incurred by using the product for any other use than that for which it was intended.

In no way does this exempt the user from knowing and applying all the regulations controlling his activity. He alone will take on the responsibility for taking the precautions involved by the use of the product.

The aim of all the mandatory regulations mentionned is just to help the user to fulfil his obligations regarding the use of hazardous products.

This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

End of document

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