

Date of issue: 28.02.2013 Replaces Data Sheet of: 26.02.2013

*** Alterations as compared to previous

Section 1: Identification of the substance or mixture and of the company

1.1 Product / Trade Name: deleo ® red

Development number: 0014-12 (A)

1.2 Relevant identified uses of the substance or mixture and uses or uses advised against: None.

Application: Universal – Sanitary Cleaner (aerosol)

Chemical characterization:

Aqueous acidic solution containing functional additives

Recommended restrictions on use: None known

1.3 Details of the supplier of the safety data sheet:

Address of the manufacturer / supplier:

IHO Innovation GmbH, Langenlebarnerstraße 92, 3430 Tulln ad Donau, Austria

*Phone: +49 173 888 7169, Fax: + 49 5241 220 23 30

Responsible Department: Mr. Klaus - Peter Osthoff, email: office@deleo-products.com

Company registration number: FN 368842s

Responsible for the data sheet:

CHEMCO123 ® - Chemical Consultancy, graduate chemist, Rosemarie Fechner? 05254 9575 05

Email: info@chemco123.de

1.4 Emergency telephone number:

Emergency - Telephone - Germany:

Counseling center for poisoning: +49 30 19240 (chargeable)

Emergency - Telephone - Austria:

Poison Information Centre - Vienna: +43 (0) 1/406 43 43

* Emergency - Telephone of Company / Undertaking: +49 173 888 7169

Section 2: Possible Hazards

2.1 Classification of the substance or mixture:

Classification according RL1999/45/EG / according to Regulation (EC) No 1272/2008:

The product does not require labeling.

2.2 Label elements:

Label elements according RL1999/45/EG / according to Regulation (EC) No 1272/2008:

None.

2.3 Other hazards:

Humans:

May cause temporary eye irritation. Repeated or prolonged skin contact may cause skin irritation and sensitization in sensitive individuals.

Environment:

Slightly hazardous for water.

Persistent, bioaccumulative and toxic (PBT) substances:

The concentration of ingredients with R 50 / R 53 or 51/53 is <10⁻⁴ %.

Very persistent and very bioaccumulative (vPvB substances): None

SECTION 3: Composition / information on ingredients**3.1 Hazardous Ingredients / Ingredients with occupational exposure limits:**

None.

Section 4: First - Aid - Measures**4.1 Description of first aid measures:****General notes:**

Show this SDS to your doctor in attendance.

After inhalation:

Not hazardous by inhalation.

After skin contact:

Wash with soap and water.

In case of skin irritation or allergic reactions visit a physician.

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After eye contact:

Rinse thoroughly in contact with eyes with plenty of water.

If eye irritation persists, consult a specialist.

After swallowing:

Do not induce vomiting. Rinse mouth and then drink plenty of water.

Medical advice.

4.2 Most important acute and delayed symptoms and effects:

None.

4.3 Indication of any immediate medical attention and special treatment:

Symptomatic treatment.

Sections 5: Fire Fighting Measures**5.1 Extinguishing media:**

Suitable extinguishing media: The product itself does not burn. Use extinguishing measures that suit to environment.

Extinguishing media to avoid: None.

5.2 Special hazards arising from the substance or mixture:

In case of fire can be released: Carbon oxides, nitrogen oxides and sulfur oxides.

5.3 Advice for fire-fighters: None.**Special protective equipment:**

Use self contained breathing apparatus.

Wear full protective suit.

Section 6: Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency method:**

Use personal protective equipment. Avoid contact with skin and eyes.

6.1.1 For non-emergency personnel:

Use personal protective equipment. Avoid contact with skin and eyes.

6.1.2 Forces:

Use personal protective equipment. Avoid contact with skin and eyes.

6.2 Environmental precautions:

Larger quantities not flush into surface water or sanitary sewer system. Please contact the competent local authorities.

6.3 Methods and material for containment and cleaning up:**6.3.1 Advice for retention:**

Soak up with absorbent material (eg sand, silica gel, acid binder, universal binder, Sawdust). Keep in suitable, closed containers for disposal. After cleaning tracks flush with water.

6.3.2 Instructions for Cleaning:

Soak up with absorbent material (eg sand, silica gel, acid binder, universal binder, Sawdust). Keep in suitable, closed containers for disposal. After cleaning tracks flush with water.

6.3.3 Unsuitable Methods and material for containment and cleaning up:

None known.

6.4 Reference to other sections:

See also section 8 or 13

Section 7: Handling and Storage**7.1 Protection measures for safe handling:****7.1.1 Precautions for safe handling:**

Use personal protective equipment.

7.1.2 Advice on general occupational hygiene:

Avoid contact with skin and eyes. Take off all contaminated clothing immediately.

When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities:

No special storage conditions required.

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Precautions against fire and explosion:

Normal measures for preventive fire protection.

Requirements for storage rooms and containers:

No special storage conditions required.

Further information about storage conditions:

Keep at temperatures above 0 ° C. WHG § 19g.

Storage class: 12 (VCI - concept)

7.3 Specific end uses:

Universal – Sanitary Cleaner

Section 8: Exposure Exposure controls / personal protective equipment

8.1 **Control parameters:** None.

Occupational Exposure Limits (OEL) TRGS 900 / EC 2000/39/EC / biological limits (BGW) TRGS 903

CAS / Material Limit Value TLV / BGW

8.2 **Limitation and supervision of exposure:**

Not applicable.

8.2.1 **Appropriate engineering controls:**

Not applicable.

8.2.2 **Individual protection measures, personal protective equipment:**

Respiratory protection: No personal respiratory protective equipment required.

In mist, spray or aerosol exposure wear suitable respiratory equipment with

Half mask with a particle filter P2 (EN 143).

Hand protection: For more information, check with the manufacturer of the gloves.

Long term exposure: Protection gloves of eg Butyl rubber according to EN 374

Breakthrough time: > 240 min / Thickness: 0,7 mm / Level 5

Short-term exposure: Protective gloves made of butyl rubber, for example according to EN 374

Breakthrough time:> 30 min / layer thickness: 0.4 mm / Level 2

Eye protection: Tightly sealed safety glasses.

Body protection: Protective work clothing.

Other: The type of protective equipment must be selected according to concentration and amount of exposure dangerous substance at the specific workplace.

Thermal Hazards: Not applicable

8.3.3 **Delimitation and monitoring of the environmental exposition:** not applicable

Section 9: Physical and chemical properties

9.1 **Information on basic physical and chemical properties:**

Appearance: liquid

Color: pink

Odour: pleasant

Odour threshold: not applicable

Safety data

pH - value: 2.4

Boiling Point / Range (° C): 100 ~

Melting point / Melting range (° C): 0 ~

Flash Point (° C): not applicable

Flammability: not applicable

Ignition temperature (° C): not applicable

Self: not applicable

Fire promoting properties: not applicable

Explosion hazard: not applicable

Flammable Limits (% by volume) Lower: Not applicable Upper: Not applicable

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Vapour pressure:	not applicable
Density (g / ml):	No data available
Solubility (in water):	Soluble
Partition coefficient, n - octanol / water:	no data available
Viscosity:	No data available
Solvent-separation test:	no data available
Solvent content (% by weight):	<2x 10 ⁻³
VOC - content (g / kg):	<2x 10 ⁻²
Fat solubility:	not applicable

9.2 Other information:

Thermal decomposition (° C):	> 100
Vapor density (air = 1):	No data available
Evaporation rate:	no data available

Abschnitt 10: Stabilität und Reaktivität

10.1 Reaktivität:

10.1.1 Gefahren:

Keine Gefahren durch das Produkt in Liefer

10.2 Chemische Stabilität:

Stabil.

10.3 Möglichkeit gefährlicher Reaktionen:

Keine.

10.4 Zu vermeidende Bedingungen

Keine.

10.5 Unverträgliche Materialien:

Keine.

10.6 Gefährliche Zersetzungsprodukte:

Keine.

Section 11: Toxicological Information

11.1 Information on toxicological effects:

11.1.1 Acute toxicity of the mixture:

Inhalation, LC50 rat (mg / l / 4h): N.A.

swallow, LD50 rat (mg / kg): N.A.

Skin contact, LD50 rat (mg / kg): N.A.

Stimulus - / Irritation (to skin / eye): N.A.

Sensitization: With awareness, beyond reaction what's expected at particularly sensitive individuals, it is not expected.

11.1.2 Sub acute / chronic toxicity of the mixture:

Carcinogenicity: No.

Mutagenicity: No.

Teratogenicity: No.

Narcotic effect: No.

11.1.3 Acute toxicity / Sub acute / Chronic of ingredients:

Not relevant - C <1%.

Section 12: Ecological Information

- 12.1 **Toxicity:** slightly hazardous for water.
- 12.2 **Persistence and degradability (Mobility and Accumulation Potential):**
Does not bioaccumulate. Before discharging sewage into treatment plants a neutralization is usually required.
The surfactants contained in this mixture meet the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. Data to support this, be kept available for the competent authorities of the Member States and will be made on their direct or made at the request of a detergent manufacturer.

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- 12.3 **Bioaccumulative**
Does not bioaccumulate.
- 12.4 **Mobility in soil:**
Does not bioaccumulate.
- 12.5 **Results of PBT and vPvB assessment:**
Persistent, bioaccumulative and toxic (PBT) substances: The concentration is <10-4 %.
Very persistent and very bioaccumulative (vPvB substances): None.
- 12.6 **Other adverse effects:** None.

Section 13: Disposal

- 13.1 **Waste treatment methods:**
Recommendation: D9
Waste Code - No.: 07 07 99 - wastes not otherwise specified
In addition comply with the regional authorities.

Section 14: Transport Information

- Land transport, marine transport, air transport:**
No hazardous good according to transport regulations.
- 14.1 **UN No.:** not applicable
- 14.2 **UN proper shipping name:** not applicable
Hazard labeling: not applicable
- 14.3 **Packing group:** not applicable
- 14.4 **Packing group: Transport category (tunnel restriction code):** not applicable
- 14.5 **Environmental hazards:** not applicable
Marine pollutant: not applicable
- 14.6 **Special precautions for user:** None.
- 14.7 **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

Section 15: Regulatory

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

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004

Detergents. applicable

Declaration of ingredients: No additional information is required.

National regulations:

Water hazard class 1 (WGK on 27.07.2005

Waste code according to EWC: 07 07 99

Description: Waste a.n.g.

Disposal Recommendation: Physico-chemical treatment

Control area of the WRMG / Detergents note: Yes. / Yes.

15.2 **Chemical safety assessment:** None.

Section 16: Other Information

Full text of R-phrases: N.A.

Full text of H-phrases: N.A.

Sources of key data used to compile the Safety Data Sheet:

Information from the manufacturer

The information is based on the knowledge and experience at the date of issue, they have not meaning of guarantees on properties. They may not be changed, nor transferred to other products.

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