

Reciclean® W1

Ref. 03165/2.0/REG_EU/EN

Revision Date: 24.06.2008

Previous date: 16.04.2007

Print Date:24.06.2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Commercial Product Name

Reciclean® W1

Use of the Substance/Preparation

Cleansing agent in combination with Reciclean W2.

Company/Undertaking Identification

Kemira Chemicals B.V.
 P.O. Box 1015
 3180 AA ROZENBURG
 NETHERLANDS
 Telephone. +31181282211, Telefax. +31181282513
 Kemira.ProductSafety@kemira.com

Emergency telephone

|| +31181282474
 Carechem 24 International: +44 (0)208 762 8322

2. HAZARDS IDENTIFICATION

Harmful; Harmful if swallowed.

Irritant; Risk of serious damage to eyes. Irritating to respiratory system and skin.

Risk of decomposition on heating. Risk of decomposition in contact with incompatible products (metal oxides, metal ions (e.g. Mn, Fe, Cu, Ni, Cr, Zn), metal salts, bases, reducing agents).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

CAS/EU number	Chemical name of the substance	Concentration	Warning symbol, R-phrases and other information
7722-84-1 231-765-0	Hydrogen peroxide	35 %	Corrosive, Oxidising C, O,R 5-R 8-R20/22-R35

Further information

stabilized

4. FIRST AID MEASURES

Inhalation

Reciclean® W1

Ref. 03165/2.0/REG_EU/EN

Revision Date: 24.06.2008

Previous date: 16.04.2007

Print Date:24.06.2008

Move to fresh air. Keep warm. Oxygen or artificial respiration if needed. Call a physician immediately.

Skin contact

Wash off immediately with plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing with plenty of water to prevent fire hazard. Keep warm. If skin irritation persists, call a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

Ingestion

Rinse mouth. Give small amounts of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Keep warm. Call a physician immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

The product itself does not burn.
Water, water mist

Extinguishing media which shall not be used for safety reasons

Dry powder, Carbon dioxide (CO₂)

Specific hazards during fire fighting

The product itself does not burn but it sustains the combustion of combustible material. Pressure build-up in confined space (risk of decomposition).

Special protective equipment for fire-fighters

Self-contained breathing apparatus (EN 133)
Complete suit protecting against chemicals

Specific methods

Cool containers / tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with skin, eyes and clothing. Never return spills in original containers for re-use. Ensure adequate ventilation. Wear personal protective equipment. Remove all sources of ignition. Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent product from entering drains. Should not be released into the environment.

Methods for cleaning up

Prevent from spreading. Dam up. Very dilute solution can be washed into drains with plenty of water. Contact the proper local authorities. Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling

Never return unused material to storage receptacle. Open drum carefully as content may be under pressure. Avoid exposure. Ensure adequate ventilation, especially in confined areas. Wear suitable protective clothing. Keep away from sources of ignition - No smoking. Keep away from combustible material. Protect from contamination.

Storage

Keep in a cool, well-ventilated place. Keep away from heat and sources of ignition. Condition of containers should be checked regularly. Store in original container. Store in a receptacle equipped with a vent.
Materials to avoid:

Reciclean® W1

Ref. 03165/2.0/REG_EU/EN

Revision Date: 24.06.2008

Previous date: 16.04.2007

Print Date:24.06.2008

Combustible material, Reducing agents, Organic materials, Bases, metal oxides, metal ions (e.g. Mn, Fe, Cu, Ni, Cr, Zn), metal salts, Rust, Dirt

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Limit Values****Limit values in other countries****FI:****Hydrogen peroxide**TWA = 1 ppm = 1,4 mg/m³, solutionSTEL = 3 ppm = 4,2 mg/m³, solution**SE:****Hydrogen peroxide**NGV = 1 ppm = 1,4 mg/m³TGV = 2 ppm = 3 mg/m³**DE:****Hydrogen peroxide**MAK = 0,5 ppm = 0,71 mg/m³**AT:****Hydrogen peroxide**MAK = 1 ppm = 1,4 mg/m³STEL = 2 ppm = 2,8 mg/m³, 8x5 min (Mow)**BE:****Hydrogen peroxide**TWA = 1 ppm = 1,4 mg/m³**CH:****Hydrogen peroxide**TWA = 0,5 ppm = 0,71 mg/m³STEL = 0,5 ppm = 0,71 mg/m³, Remark defines the duration and frequency related to the short term MAK value (frequency x duration (minutes per shift))**CZ:****Hydrogen peroxide**TWA = 1 mg/m³STEL = 2 mg/m³**DK:****Hydrogen peroxide**TWA = 1 ppm = 1,4 mg/m³**EE:****Hydrogen peroxide**TWA = 1 ppm = 1,4 mg/m³CEIL = 2 ppm = 3 mg/m³**ES:****Hydrogen peroxide**

Reciclean® W1

Ref. 03165/2.0/REG_EU/EN

Revision Date: 24.06.2008

Previous date: 16.04.2007

Print Date:24.06.2008

VLA-ED = 1 ppm = 1,4 mg/m³**FR:****Hydrogen peroxide**VME = 1 ppm = 1,5 mg/m³, : indicative exposure limits**GB:****Hydrogen peroxide**STEL = 2 ppm = 2,8 mg/m³TWA = 1 ppm = 1,4 mg/m³**GR:****Hydrogen peroxide**TWA = 1 ppm = 1,4 mg/m³STEL = 3 mg/m³**IE:****Hydrogen peroxide**TWA = 1 ppm = 1,5 mg/m³STEL = 2 ppm = 3 mg/m³**LT:****Hydrogen peroxide**TWA = 1 ppm = 1,4 mg/m³CEIL = 2 ppm = 3 mg/m³**NL:****Hydrogen peroxide**TWA = 1 ppm = 1,4 mg/m³**NO:****Hydrogen peroxide**TWA = 1 ppm = 1,4 mg/m³**PL:****Hydrogen peroxide**TWA = 1,5 mg/m³STEL = 4 mg/m³**PT:****Hydrogen peroxide**

TWA = 1 ppm

SI:**Hydrogen peroxide**TWA = 1 ppm = 1,4 mg/m³PEAK = 1 ppm = 1,4 mg/m³**SK:****Hydrogen peroxide**TWA = 1 ppm = 1,4 mg/m³CEIL = 1,4 mg/m³**Exposure controls****Occupational exposure controls**

Avoid exposure. Wash hands before breaks and immediately after handling the product.

Reciclean® W1

Ref. 03165/2.0/REG_EU/EN

Revision Date: 24.06.2008

Previous date: 16.04.2007

Print Date:24.06.2008

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment. (filter ABEK-P3)

Hand protection

Glove material: butyl-rubber, Break through time: 8 h
 Glove material: Natural Rubber, Break through time: 8 h
 Glove material: Nitrile rubber, Break through time: 8 h
 Glove material: Polyethylene, Break through time: 8 h
 Glove material: PVC, Break through time: 4 h
 Glove material: Neoprene, Break through time: 1 - 4 h
 Do not wear leather gloves. Do not wear cotton gloves.

Eye protection

Tightly fitting safety goggles and face-shield. Eye wash bottle with pure water

Skin and body protection

Chemical resistant protective clothing. Do not wear leather shoes. Safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information (appearance, odour)

Physical state	liquid,
Colour	colourless
Odour	odourless, slightly pungent

Important health safety and environmental information

pH	1,5 - 4,0
Boiling point/boilingrange	108 °C
Flash point	not applicable
Flammability (solid, gas)	not applicable
Explosive properties:	
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	30 hPa (30 °C)
Density	1,132 g/cm ³
Solubility:	
Water solubility	completely soluble
Fat solubility (solvent - oil to be specified)	not applicable
Partition coefficient: n-octanol/water	no data available
Viscosity:	
Viscosity, dynamic	1,81 mPa.s (0 °C) 1,10 mPa.s (20 °C)
Relative vapour density	no data available
Evaporation rate	> 1

Reciclean® W1

Ref. 03165/2.0/REG_EU/EN

Revision Date: 24.06.2008

Previous date: 16.04.2007

Print Date:24.06.2008

Other data

Thermal decomposition > 108 °C
Freezing point : -33 °C

10. STABILITY AND REACTIVITY

Conditions to avoid

High temperatures. UV light. Protect from contamination.

Thermal decomposition > 108 °C

Materials to avoid

Combustible material, Reducing agents, Organic materials, Bases, metal oxides, metal ions (e.g. Mn, Fe, Cu, Ni, Cr, Zn), metal salts, Rust, Dirt

Hazardous decomposition products

Oxygen, water vapour

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed. Ingestion causes burns of the stomach and upper digestive tract. Inhalation of aerosols may cause irritation of mucous membranes, inflammation and lung oedema.

Hydrogen peroxide:

LD50/Oral/rat: 1.193 - 1.270 mg/kg
Remarks:(35 % solution)

LC50/Inhalation/4 h/rat: 2 mg/l
Remarks: (100 % solution)

LD50/Dermal/rabbit: > 4.000 mg/kg
Remarks: (50 % solution)

Irritation and corrosion

Skin:

Contact with skin causes blanching and erythema. Irritating to skin.

Eyes:

Liquid causes severe inflammation of conjunctiva and may cause severe damage of the cornea. May cause irreversible eye damage.

Respiratory system:

Irritating to respiratory system.

Hydrogen peroxide:

Skin: rabbit/Draize Test: Corrosive

Reciclean® W1

Ref. 03165/2.0/REG_EU/EN

Revision Date: 24.06.2008

Previous date: 16.04.2007

Print Date:24.06.2008

Eyes: rabbit/Draize Test: Corrosive

Sensitisation

Did not cause sensitization on laboratory animals.

Long term toxicity

Carcinogenicity

Not classified by IARC, NTP, OSHA or ACGIH.

Mutagenicity

Metabolic activation: no
Experiments showed mutagenic effects in cultured bacterial cells.

Did not show mutagenic effects in animal experiments.

Toxicity to reproduction

Animal testing did not show any effects on fertility.

Teratogenicity

Animal testing did not show any effects on foetal development.

Human experience

Inhalation

Irritating to respiratory system.

Skin contact

Contact with skin causes blanching and erythema.

Eye contact

Liquid causes severe inflammation of conjunctiva and may cause severe damage of the cornea.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

12. ECOLOGICAL INFORMATION**Ecotoxicity effects****Aquatic toxicity****Hydrogen peroxide:**

LC50/48 h/Leuciscus idus (Golden orfe): 35 mg/l

LC50/96 h/Pimephales promelas (fathead minnow): 22 - 33 mg/l

LC50/168 h/Oncorhynchus mykiss (rainbow trout): 38,5 mg/l

EC50/Daphnia: 2,4 - 7,7 mg/l

LC50/Microcystis aeruginosa (algae): > 1,7 mg/l

Reciclean® W1

Ref. 03165/2.0/REG_EU/EN

Revision Date: 24.06.2008

Previous date: 16.04.2007

Print Date:24.06.2008

Toxicity to other organisms

Mobility

Vapour pressure: 30 hPa (30 °C)

Water solubility: completely soluble

Persistence and degradability

Chemical degradation:

Decomposes to water and oxygen.

Bioaccumulative potential

Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water: no data available

Other adverse effects

13. DISPOSAL CONSIDERATIONS

Product

In accordance with local and national regulations. See also:
 Accidental release measures. Wear personal protective equipment. The diluted aqueous solution can be released into drain if it is in accordance with local regulations. The undiluted waste must not be released into drain.
 Rinse package before disposal. Empty containers that will be returned to the manufacturer must not be rinsed with water.
 Empty containers/packages must not be used for other purposes.

14. TRANSPORT INFORMATION

UN-Number	2014
Packing group	II
Land transport	
ADR/RID:	
Class:	5.1
Packaging group:	II
Classification Code:	OC1
Risk code	58
ADR/RID-Labels:	5.1, 8
Description of the goods:	UN2014, Hydrogen peroxide, aqueous solution

Sea transport
IMDG:

Reciclean® W1

Ref. 03165/2.0/REG_EU/EN

Revision Date: 24.06.2008

Previous date: 16.04.2007

Print Date:24.06.2008

Class: 5.1
Proper technical name: UN2014, HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Packaging group: II
IMDG-Labels: 5.1, 8
Marine pollutant: No Marine Pollutant

Air transport

ICAO/IATA:
Class: 5.1
Proper technical name: UN2014, Hydrogen peroxide, aqueous solution
Packaging group: II
ICAO-Labels: 5.1, 8

The producer does not recommend transport by air.

15. REGULATORY INFORMATION

Information on the warning label

Symbol(s)



Xn, Harmful

Hazardous components which must be listed on the label

EINECS-No.	CAS-No.	Components
231-765-0	7722-84-1	Hydrogen peroxide

R-phrases(s)

R22	Harmful if swallowed.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.

S-phrases(s)

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of water.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Other information

The product is classified and labelled in accordance with EC directives.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

Reciclean® W1

Ref. 03165/2.0/REG_EU/EN

Revision Date: 24.06.2008

Previous date: 16.04.2007

Print Date:24.06.2008

R 5	Heating may cause an explosion.
R 8	Contact with combustible material may cause fire.
R20/22	Harmful by inhalation and if swallowed.
R35	Causes severe burns.

Training advice

Recommended restrictions on use

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

Additions, Deletions, Revisions

Classification and hazard labelling