

REINOL®

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1) PRODUCT IDENTIFICATION

Trade name: REINOLDERM OLV10
Date: January 2008
Code: NEO600
Issue: 1
Use: Surfactant for cosmetic applications.
Assistance: REINOL spa
 Strada del Francese, 21 – 10071 Borgaro Torinese – Torino – Italy
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2) COMPOSITION/INFORMATION ON INGREDIENTS

Substances either dangerous to health, environment according to Directive 67/548 CE and following modifications or for which exposure limits are known

Nature of product: Preparation, mixture of esters and non ionic surfactants
INCI name: SORBITAN OLIVATE, CETEARYL GLUCOSIDE
CAS Number 22393-86-3 & 223706-40-6

3) HAZARDS IDENTIFICATION

D.Lgs N.65 dated 14/03/03

Risks for Health: There is no evidence of irritant / toxic effects
Risks for environment The product is not classified as dangerous for the environment according to Directive CE 67/548 and following modifications.
 Use it anyway according to good working practises avoiding the dispersion in the environment.
Other Risks Not Known

4) FIRST AID PROCEDURES

Skin contact: wash with soap and rinse with running water, the part of the body come in contact with the product.
Eye contact: rinse immediately and abundantly with running water, ask for medical advice.
Ingestion: The product has a low degree of oral toxicity. If accidentally swallowed, do not induce vomiting. Seek for medical advice.
Inhalation: In case of inhalation of vapours, fumes or aerosol, take the patient in good aired place and seek for medical advice.

5) FIRE FIGHTING PROCEDURES

Extinguishing media: water, CO₂, foam, dry chemical
Not suitable means None
Special risks: In case of fire, there can be the development of irritating/toxic gas/vapours.
Protective equipment: In event of fire, wear respirator.

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6) ACCIDENTAL RELEASE MEASURES

Personal precautions:	PVC gloves and protective glasses.
Environmental precautions:	Prevent product to enter the ground. In event of accidental release in the sewage, contact authorities.
Cleaning method:	Collect then wash the involved area with plenty of water.

7) STORAGE AND HANDLING PROCEDURES

Handling precautions:	Avoid contact with product. Use the product according to good hygiene and safety procedures.
Storage:	Compatible materials: stainless steel, polyethylene. Avoid temperatures > 70°

8) EXPOSURE CONTROL /PERSONAL PROTECTION

Respiratory protection:	Mask with antipowder filter
Hand protection:	PVC gloves.
Eyes protection:	Protective glasses.
Skin protection:	Clothes for work
Exposure Limits:	TVL not established
General precautions:	Follow usual precautions for handling of chemicals
Periodic Health Controls:	Not specific measures required
Environ. Exposure Control	The product is classified as surfactant

9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance at 20°C:	White or lightly yellow flakes
Odour:	characteristic
Solubility in water:	dispersible
Liposolubility:	n.d.
Density	n.d.
pH 1% in water:	5 - 7
Boiling point:	> 250°C
Flash point (PMcc):	> 125 °C
Decomposition point:	> 200 °C
Explosive limit:	not connected with the product
Carburant properties:	not connected with the product

10) REACTIVITY / STABILITY

Hazardous decomposition products:	In case of fire, toxic or irritant gas/vapours could develop
Conditions to avoid:	non in particular if used correctly
Materials to avoid:	non in particular if used correctly

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11) TOXICOLOGICAL INFORMATION

What follow has been argued from bibliographical and scientific sources

Swallowing: acute oral toxicity (LD50) (rat)	> 2000 mg/kg
Contact with Eyes (rabbit):	Not irritant
Contact with skin (rabbit) (4 hours)	Not irritant
Inhalation:	Inhalate if possible only as aerosol. It can irritate respiratory ways.
Sensitising:	Not Sensitising

12) ECOLOGICAL INFORMATION

What follows has been argued from products of similar composition

Biotic degradation	Easily biodegradable. The product can be considered "easily biodegradable" according to CEE Directive. The product is also biodegradable according to OECD methods (Organisation for Economic Corporation and Development); as a consequence it can be used in "detergent" products as foreseen in Regulation CE N°648/2004.
COD:	n.d.
Ecotoxic Effects	n.d.
Toxic for Daphnia (acute)	EC50 (48h) 1 – 10 mg/l
Hour Fish	CL50 (96h) 1 – 10 mg/l Carassius Auratus
AOX	The product does not contain organolonenated compounds
Heavy Metals	The product does not contain heavy metals in meaningful concentration of water

13) WASTE DISPOSAL METHOD

Drain in authorized dump. It can be treated in biological depurators.
Empty packages must be treated as special wastes (D. Lgs. 05/05/097 n.22)

14) TRANSPORT INFORMATION

Overland Transport	Classification (RID/ADR): not hazardous Classification of goods Hazardous identification
Sea Freight	Classification (IMDG) not hazardous
Air Freight	Classification (ICAO/IATA) not hazardous

15) INFORMATION OF THE REGULATION (CE Directive 67/548 and following modifications)

D.Lgs. N°65 dated 14/02/2003

Classification/Symbol:	not classified
R - Sentences:	not required
S - Sentences:	not required

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16) FURTHER INFORMATION

References:

NIOSH – Registry of Toxic Effects of Chemical Substances (1983).

N.Irving Sax, R.J. Lewis Sr. – Dangerous Properties of industrial Materials – ED. Van Nostrand, Reinold – 1989, 7th edition.

CESIO – Classification and Labelling of Anionic, Nonionic Surfactants (1990).

CID (SSOG) – Contributo alla compilazione delle schede di sicurezza dei tensioattivi, II° edizione.

ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents – 1993/1994

SINTALEX – Version 7.0

D.M. – 16 Febbraio 1993 (classificazione di pericolosità delle sostanze).

CCNL – Allegato 1 "TLV per il 1989/90".

EINECS – European Inventory of Existing Commercial Chemical Substances.

This product must be preserved, handled and used following hygienic and safety rules of good industrial use and in compliance with effective law disposal. All information and data given herein are based on our present experience but are presented without warranty or responsibility of any kind.

This document belongs to REINOL spa and substitutes every previous edition.