

REINOL®

REINOL s.p.a. - Strada del Francese, 21 - 10071 Borgaro Torinese - Torino — ITALY
 Tel. +39 (011) 470.15.10 - 470.15.11 - 470.45.41 - Fax +39 (011) 470.39.10 - Email: info@reinol.it

1) PRODUCT IDENTIFICATION

Trade name: REINOLWAX PF
Date: January 2006
Code: GH/012
Issue: 1
INCI name: LAURETH-2 PHOSPHATE
Chemical denomination: Alcohol C12-14, ethoxylated, phosphate
Use: acid emulsifier for O/W cosmetic systems
Origin (XXII Dir.): Vegetal/synthetic
Assistance: **REINOL spa**
 Strada del Francese, 21 – 10071 Borgaro Torinese – Torino – Italy
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2) COMPOSITION/INFORMATION ABOUT HAZARDOUS INGREDIENTS

This product is obliged to carry a label, according to the regulation 67/548/CEE governing hazardous substances.

Symbol: Xi
R phrases R36 - R38

3) RISK DESCRIPTION

No specific danger reveals in the normal uses

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: wash immediately and abundantly with running water, keeping the eyelids open. In case the disorder persists, ask for medical advice. Do not use any kind of collyrium or ointment before an oculist visit.
Ingestion: do not induce vomiting. Obtain medical attention as a precaution.
Inhalation: no such a risk is expected in the normal use of the product.

5) FIRE FIGHTING PROCEDURES

Extinguishing media: normal fire extinguishers (sprayed water, CO₂, foam ...).
NO- extinguishing media: jets of water direct on flames.
Fire hazard: if the product has involved in a fire, toxic smokes could develop.
Special equipment: respiratory protection and protective suitable clothes. Observe the necessary precautions in fires which involve chemical products.

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6) SPILL AND LEAK PROCEDURES

Precautions:	gloves and safety glasses. Avoid the presence of ignition sources, don't smoke.
Environmental precautions:	contain the leaks mechanically; avoid the product to reach water flows or the drainage network.
Cleaning method:	collect the product for an eventual re-use or for waste disposal. Absorb it with inert substances. After gathering the product, wash the involved area with plenty of water.

7) STORAGE AND HANDLING PROCEDURES

Handling precautions:	used following hygienic and safety rules of good industrial use.
Vessel to be used:	maintain the product at 5/35°C in the original containers or in plastic, plasticized or stainless steel containers. Never exceed 50 degrees.

8) EXPOSURE CONTROL

Hand protection:	PVC or rubber safety gloves.
Eye protection:	safety glasses.
Safe protection and hygienic measures:	respect the usual precaution measures relative to the handling of chemical products..

9) PHYSICAL AND CHEMICAL DATA

Appearance at 25°C:	clear liquid
Color:	colourless
Odour:	light, characteristic
pH (5% water dispersion):	2.5 – 3.5
Solidification temperature	< 10°C
Water (K.F.), %:	3 max
Boiling point	153°C
Auto-ignition point:	> 149°C
Flash point	N.D.
Decomposition point:	> 200°C
Explosive limit:	not connected with the product
Comburent properties	not connected with the product
Solubility in water:	dispersible in warm water
Solubilità in oil:	soluble/miscible

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10) REACTIVITY / STABILITY

Hazardous decomposition products: If the product has involved in a fire, toxic smokes could develop

Hazardous reactions: no one in particular if used correctly

11) TOXICOLOGY

REINOL products are not tested on animals, according to the new trend of cosmetic products. Considering the chemical similarity products largely tested in the past, the existing data for chemical analogues allow to define this product as *not toxic* (Acute oral toxicity, LD₅₀ > 2000 mg/Kg).

REINOL® PF is an emulsifier in acid form. It may be considered *medially irritant*, but non hazardous in normal operating conditions. A 5% water dispersion can be classified as *minimally irritant*.

In normal percentage of use (< 5%), the product can be classified as *not irritant*.

At advisable percentage of use (< 5%), the employ of this raw material in cosmetic formulations does not represent at all a risk for human health in normal and reasonably foreseen use conditions.

Other informations: no mutagenic effect and no carcinogenic, teratogenic effects

12) ECOLOGICAL DATA

Biotic degradation: > 90 % (OECD)

C.O.D.: n.d.

Ichthyologic toxicity: > 1 –10 mg/l

13) WASTE DISPOSAL METHOD

Recover the product if possible.

Bury on an authorized landfill site or incinerate under approved controlled conditions.

Wash the containers with water and treat the drains as waste.

Operate according to local regulations.

14) TRANSPORT INFORMATION

Road (RID/ADR): not hazardous

Rail (RID): not hazardous

Air (ICAO/IATA): not hazardous

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15) INFORMATION OF THE REGULATION

256/74 Italian Law and DM 28-01-1992 (classification, packaging and labelling of dangerous substances).
 Classification and Labelling of Surfactants – CESIO.

Symbol	Xi - Irritant
R phrases	36 – 38 - Irritant to eyes, irritant to skin.
S phrases	26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 28 - After contact with skin, wash immediately with plenty of water. 37/39 - Wear suitable gloves, wear eye protection.

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.