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

Product identifier

Trade name	:	RHODAFAC PE 510
Product name	:	Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched, phosphates
Product number	:	68412-53-3

Relevant identified uses of the substance or mixture and uses advised against

Uses of the Substance/Mixture	:	Specific use(s): Emulsifier, (For further information, refer to the product technical data sheet)

Details of the supplier of the safety data sheet

Company	:	RHODIA Opérations 40 Rue de la Haie Coq 93306 Aubervilliers Cedex - France Tel : +33 (0)1.53.56.50.00
Emergency telephone number	:	MULTI LINGUAL EMERGENCY NUMBER (24/7) Europe/America/Africa : +44 1235 239 670 (UK) Middle East & Africa speaking Arabic : +44 1235 239 671 (UK) Asia Pacific : +65 3158 1074 (Singapore) China : +86 10 5100 3039 (Beijing)
E-mail address	:	information.fds@eu.rhodia.com

2. HAZARDS IDENTIFICATION

Classification

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin irritation, Category 2	H315: Causes skin irritation.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC,1999/45/EC)

Xi: Irritant	R38: Irritating to skin. R41: Risk of serious damage to eyes.
N: Dangerous for the environment.	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Hazardous products which must be listed on the label:

- 68412-53-3 Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched, phosphates

REGULATION (EC) No 1272/2008

Pictogram :

Signal word : Danger

Hazard statements :
H315 Causes skin irritation.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :
Prevention:
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 IF exposed or concerned:
P310 Immediately call a POISON CENTER or doctor/ physician.

Other hazards

Does NOT present any particular fire hazard. On combustion, toxic gases are released. Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched, phosphates

Substance

Chemical nature : NONYLPHENYL(branched) POLYOXYETHYLENE ETHER PHOSPHATES

CAS-No. : 68412-53-3

Information on Components and Impurities

Chemical Name	Index-No. CAS-No.	Classification 67/548/EEC	Classification REGULATION (EC) No 1272/2008	Concentration [%]
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched, phosphates	68412-53-3 self classification	Xi; R38 Xi; R41 N; R51/53	Eye Dam. 1; H318 Skin Irrit. 2; H315 Aquatic Chronic 2; H411	>= 60 - < 70
Ethoxylated nonylphenol	68412-54-4 self classification	Xi; R36/38 N; R51/53	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	>= 30 - < 40
orthophosphoric acid	015-011-00-6 7664-38-2	C; R34	Skin Corr. 1B; H314	< 1

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of necessary first-aid measures

General advice : Show this safety data sheet to the doctor in attendance.
First aider needs to protect himself.
Place affected clothing in a sealed bag for subsequent decontamination.

Inhalation : not applicable

Skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Wash immediately and thoroughly for a prolonged period (at least 15 minutes).
Consult a physician if necessary.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get immediate medical advice/ attention.

Ingestion : Do NOT induce vomiting.
Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2)
Unsuitable extinguishing media	:	High volume water jet

Special hazards arising from the substance or mixture

Specific hazards during fire fighting	:	Combustible. However, does not present any particular risk in the event of a fire. On combustion, toxic gases are released.

Advice for firefighters

Special protective equipment for fire-fighters	:	Wear self contained breathing apparatus for fire fighting if necessary. Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid contact with the skin and the eyes. Do not allow uncontrolled discharge of product into the environment. Personal protective equipment Wear suitable protective equipment. Protective equipment Safety glasses Face-shield Wear suitable gloves. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
Environmental precautions	:	Dam up. Prevent product from entering drains.

Methods for Cleaning or Taking Up

Recovery	:	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Pick up and transfer to properly labelled containers. Keep in suitable, closed containers for disposal.
Decontamination/cleaning	:	Wash off with plenty of water. Recover the cleaning water for subsequent disposal.
Disposal	:	Dispose of in accordance with local regulations.
Additional advice	:	Material can create slippery conditions.

7. HANDLING AND STORAGE

Handling

Technical measures	:	Does not require any specific or particular measures.
Advice on safe handling and usage	:	Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures for storage	:	Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Storage conditions

Recommended	:	Stable under normal conditions. Keep in a well-ventilated place. Keep in a dry, cool place. Keep away from incompatible materials to be indicated by the manufacturer.
Incompatible products	:	Strong bases Strong oxidizing agents Strong reducing agents.

Packaging Measures

Packaging materials - Recommended	:	Coated steels.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	Value type	Value	Update	Basis
orthophosphoric acid	TWA Indicative	1 mg/m3	2000-06-16	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
orthophosphoric acid	STEL Indicative	2 mg/m3	2000-06-16	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

Control measures

Engineering measures : Avoid splashes.
Provide adequate ventilation.

Personal protective equipment

Respiratory protection : Use a respirator with an approved filter if a risk assessment indicates this is necessary

Hand protection : Where there is a risk of contact with hands, use appropriate gloves
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Gloves must be inspected prior to use.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection	:	Safety glasses with side-shields In case of contact through splashing: Wear face-shield and protective suit.
Skin and body protection	:	Protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	Emergency equipment immediately accessible, with instructions for use. Ensure that eyewash stations and safety showers are close to the workstation location. Use clean, well-maintained personal protection equipment. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.
Protective measures	:	The protective equipment must be selected in accordance with current CEN standards and in cooperation with the supplier of the protective equipment. Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.
General advice	:	Dam up. Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	:	no data available
Physical state	:	liquid
Colour	:	colourless to pale yellow.
Odour	:	slight
Odour Threshold	:	no data available

Safety data

pH	:	< 1,5 at 10 % Aqueous solution

Melting point/range	:	no data available
Boiling point/boiling range	:	> 260 °C
Flash point	:	> 218 °C open cup
Flammability (solid, gas)	:	no data available
Autoignition temperature	:	no data available
Oxidizing properties	:	No information available.
Water solubility	:	dispersible
Solubility in other solvents	:	organic polar solvents soluble
Partition coefficient: n-octanol/water	:	no data available
Vapour pressure	:	no data available
Evaporation rate	:	no data available
Relative vapour density	:	no data available
Density	:	1,08 - 1,09 g/cm3
Oxidation/Reduction Potential	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
Explosive properties	:	no data available
Thermal decomposition	:	no data available
Lower explosion limit	:	no data available
Upper explosion limit	:	no data available

10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under normal conditions.
Hazardous reactions		
Materials to avoid	:	Strong bases Strong oxidizing agents Strong reducing agents.

Decomposition products	:	On combustion or on thermal decomposition (pyrolysis) releases: (Carbon oxides (CO + CO2)). Oxides of phosphorus

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity	:	LD50 : 3.630 mg/kg - rat Unpublished internal reports
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	no data available
Acute toxicity (other routes of administration)	:	no data available
Aspiration toxicity	:	no data available

Skin corrosion/irritation

Skin irritation	:	Irritating to skin. Unpublished internal reports

Serious eye damage/eye irritation

Eye irritation	:	Risk of serious damage to eyes. Severe eye irritation Unpublished internal reports

Respiratory or skin sensitization

Sensitisation	:	Not classified as sensitising by skin contact By analogy Information given is based on data obtained from similar substances. Unpublished internal reports

Repeated dose toxicity

Repeated dose toxicity	:	No information available.

STOT

STOT - single exposure	:	no data available
STOT - repeated exposure	:	no data available

Carcinogenicity

Carcinogenicity	:	No information available.

Mutagenicity

Genotoxicity in vitro	:	Mutagenicity (Salmonella typhimurium - reverse mutation assay) negative By analogy Product is not considered to be genotoxic Information given is based on data obtained from similar substances. Unpublished internal reports
Genotoxicity in vivo	:	no data available

Reproductive toxicity

Reproductive toxicity	:	no data available

Experience with human exposure

Experience with human exposure : Ingestion	:	May cause irritation to the digestive tract Unpublished internal reports

12. ECOLOGICAL INFORMATION

Ecotoxicity assessment

Ecotoxicity assessment	:	By analogy Toxic to aquatic organisms. Unpublished internal reports

Persistence and degradability

Biodegradability

Biodegradability	:	Ultimate aerobic biodegradability Not readily biodegradable. 13 % - 28 d Method: OECD Test Guideline 301 Unpublished internal reports

Stability

Bioaccumulation

Partition coefficient: n-octanol/water	:	Not applicable Surface-Active

Mobility

Known distribution to environmental compartments	:	Ultimate destination of the product : Water Ultimate destination of the product : Sediment

Other adverse effects

Environment assessment	:	DANGEROUS FOR THE ENVIRONMENT (N) Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Interdiction	:	Avoid release to the environment.
Advice on Disposal	:	Dispose of as hazardous waste in compliance with local and national regulations.

Advice on cleaning and disposal of packaging

Measures for waste avoidance.	:	Do not dispose of the product at a rubbish tip.
Advice	:	Completely empty the packaging prior to decontamination. Carefully drain and then steam clean.
Reason for waste disposal	:	Recycle following cleaning. Dispose of contents/ container to an approved waste disposal plant.
Other data	:	In accordance with RID/ADR regulations containers or tankers, which have not been cleaned or deodorized and which previously contained a hazardous product, must either be labelled or have hazard signs. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

ADR

UN number	:	3082
Dangerous Good Description	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S. (contains NONYLPHENYL (BRANCHED) POLYOXYETHYLENE ETHER PHOSPHATES and ETHOXYLATED NONYLPHENOL), 9, III, (E)
Labels	:	9
Packing group	:	III
Tunnel restriction code	:	(E)
Class	:	9
Classification Code	:	M6
Environmentally hazardous mark	:	YES
Hazard identification No	:	90

RID

UN number	:	3082
Dangerous Good Description	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S. (contains NONYLPHENYL (BRANCHED) POLYOXYETHYLENE ETHER PHOSPHATES and ETHOXYLATED NONYLPHENOL), 9, III
Labels	:	9
Packing group	:	III
Class	:	9
Classification Code	:	M6
Environmentally hazardous mark	:	YES
Hazard identification No	:	90

IMDG

UN number	:	3082
Dangerous Good Description	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S. (contains NONYLPHENYL (BRANCHED) POLYOXYETHYLENE ETHER PHOSPHATES and ETHOXYLATED NONYLPHENOL), 9, III, IMDG Code Segregation group - Not relevant
Labels	:	9
Packing group	:	III
Class	:	9
Marine pollutant (environmentally hazardous)	:	YES
EmS	:	F-A , S-F

IATA

UN number	:	3082
Dangerous Good Description	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S. (contains NONYLPHENYL (BRANCHED) POLYOXYETHYLENE ETHER PHOSPHATES and ETHOXYLATED NONYLPHENOL), 9, III
Labels	:	9
Packing group	:	III
Class	:	9
Environmentally hazardous mark	:	NO
Packing instruction (cargo aircraft)	:	964
Max net qty/pkg	:	450,00 L
Packing instruction (passenger aircraft)	:	964
Max net qty/pkg	:	450,00 L

ADNR

UN number	:	3082
Dangerous Good Description	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S. (contains NONYLPHENYL (BRANCHED) POLYOXYETHYLENE ETHER PHOSPHATES and ETHOXYLATED NONYLPHENOL), 9, III
Labels	:	9
Packing group	:	III
Class	:	9
Classification Code	:	M6
Environmentally hazardous mark	:	YES

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

15. REGULATORY INFORMATION

Restrictions on the marketing and use of certain dangerous substances and preparations	:	Regulation (EC) no 1907/2006 of the European parliament and of the council Of 18 December 2006 - ANNEX XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R34	Causes burns.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Full text of P-Statements referred to under sections 2 and 3.

P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308	IF exposed or concerned:
P310	Immediately call a POISON CENTER or doctor/ physician.

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. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in an other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).