


SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006		
EOLYS (TM) 176 KITS		
Revision: 7.00 EU (EN)	Issuing date: 28.11.2013	

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : EOLYS (TM) 176 KITS

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

Uses of the Substance/Mixture : Specific use(s): Fuels and fuel additives

Uses advised against : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : RHODIA OPERATIONS
Z.I. 26 rue Chef de Baie
17041 La Rochelle Cedex 1 - France
Tel : +33 (0)5.46.68.34.56

E-mail address : information.fds@solvay.com

1.4 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)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.
EUH066: Repeated exposure may cause skin dryness or cracking.

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

Xn: Harmful

R65: Harmful: may cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

Hazardous products which must be listed on the label:

- 90622-58-5 Hydrocarbons, C11-C13, Isoalkanes, <2% aromatics

REGULATION (EC) No 1272/2008

Pictogram :




Signal word :

Danger

Hazard statements :

H304 May be fatal if swallowed and enters airways.

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Precautionary statements : **Response:**
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P331 Do NOT induce vomiting.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards which do not result in classification

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable, this product is a mixture.


3.2 Mixture

Chemical nature : mixture based on
Isoparaffin solvent
Organic compound of Cerium-Iron

Information on Components and Impurities

Chemical Name	Identification number	Classification 67/548/EEC	Classification REGULATION (EC) No 1272/2008	Concentration [%]
Hydrocarbons, C11-C13, Isoalkanes, <2% aromatics	CAS-No. : 90622-58-5 EINECS-No. : 292-460-6	Xn; R65 R66	Aspiration hazard , Category 1 ; H304	>= 75
	Registration number: 01-2119456810-40-xxxx			
	self classification			
Cerium Iron Oxide Isostearate	CAS-No. : 753480-32-9	not classified;	not classified	< 25
	self classification			

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.

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SECTION 4: First aid measures

4.1 Description of 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.
- If inhaled : If inhaled
Remove to fresh air.
Consult a physician if necessary.
- Skin contact : Take off contaminated clothing and shoes immediately.
- Eye contact : Rinse with running water whilst keeping the eyes wide open (at least 15 minutes)
- Ingestion : Do NOT induce vomiting.
Do not give anything to drink.
Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

- Flash point : > 62 °C Solvent
- Auto-ignition temperature : > 200 °C, Solvent 152 - 208 °C, rare earth(s) compound(s) > 200 °C, estimated
- Flammability/Explosive limit : no data available

5.1 Extinguishing media


- Suitable extinguishing media : Foam
powder
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Combustible liquid

5.3 Advice for firefighters

- Special protective equipment for firefighters : Gloves
Goggles
Boots
Full protective suit
Self-contained breathing apparatus (EN 133)
For further information refer to section 8 "Exposure controls/personal protection".

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures : Keep away from flames and hot surfaces.
Remove all sources of ignition.
Avoid contact with the skin and the eyes.
Do not breathe vapour.
Self-contained breathing apparatus (EN 133)
Safety glasses
Boots
Impervious gloves
Nitriles

6.2 Environmental precautions

Environmental precautions : Prevent product from entering sewage system.
Dam up.

--- D R A F T ---

6.3 Methods and materials for containment and cleaning up

Recovery : Pump up the product into a spare container :- suitably labelled.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

Decontamination/cleaning : Wash off with plenty of water.

Disposal : Dispose of contents/ container to an approved incineration plant.

6.4 Reference to other sections


no data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : Take measures to prevent the build up of electrostatic charge.

Advice on safe handling and usage : Provide adequate ventilation.
Use with local exhaust ventilation.

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7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

- Recommended : Keep in a cool, well-ventilated place.
Protect from moisture.
Protect against light.
- To be avoided : Store away from heat.
Keep away from open flames, hot surfaces and sources of ignition.
Keep away from incompatible materials to be indicated by the manufacturer
- Incompatible products : Acids
Alkalis and caustic products.
Reducing materials.

Packaging Measures

- Packaging materials - Recommended : Stainless steel, Teflon (R), Hydrocarbon resistant materials.
- Packaging materials - To be avoided : rubbers.
- Storage temperature : no data available

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Predicted No Effect Concentration (PNEC)

Product name	Compartment	Value	Remarks
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Cerium Iron Oxide Isostearate	Fresh water	No PNEC derivation as no adverse effect was observed (qualitative approach).
	Marine water	No PNEC derivation as no adverse effect was observed (qualitative approach).
		Intermittent release., No PNEC derivation as no adverse effect was observed (qualitative approach).
	Fresh water sediment	No PNEC derivation as no or insufficient data were available at present.
	Marine sediment	No PNEC derivation as no or insufficient data were available at present.
	Soil	No PNEC derivation as no adverse effect was observed (qualitative approach).
	STP	No PNEC derivation as no adverse effect was observed (qualitative approach).
	Oral (secondary poisoning)	No PNEC derivation as there is no potential for bioaccumulation.

8.2 Exposure controls

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
Nitriles
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Gloves must be inspected prior to use.
- Eye protection : Safety glasses
- Skin and body protection : Full protective suit
Remove and wash contaminated clothing.
- Hygiene measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Use clean, well-maintained personal protection equipment.
Wash hands before breaks and at the end of workday.
When using do not eat, drink or smoke.

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Environmental exposure controls

General advice : Prevent product from entering sewage system.
Dam up.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Physical state: liquid
Colour: brown

Odour : Hydrocarbons

Odour Threshold : no data available

pH : Not applicable insoluble product

Boiling point/boiling range : 185 - 213 °C
Solvent

Flash point : > 62 °C Solvent

Evaporation rate (Butylacetate = 1) : no data available

Flammability (solid, gas) : no data available

Flammability/Explosive limit : no data available

Auto-ignition temperature : > 200 °C Solvent 152 - 208 °C rare earth(s) compound(s) > 200 °C
estimated

Vapour pressure : 2 hPa (30 °C)
Solvent

negligible, rare earth(s) compound(s)

Vapour density : no data available

Density : 0,847 g/cm³ (20 °C)


Solubility : Water solubility : < 1 mg/l Solvent 0,011 mg/l rare earth(s) compound(s)

Solubility in other solvents:
common organic solvents : soluble

Partition coefficient: n-octanol/water : log Pow: > 6
Solvent, Structure-activity relationship (SAR)

log Pow: 1,11 - 3,35
rare earth(s) compound(s)

Thermal decomposition : no data available

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Viscosity : Viscosity, kinematic : ca. 2,4 - 2,8 mm²/s (25 °C)

Explosive properties : no data available

Oxidizing properties : No information available.

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Chemical stability : Stable at room temperature.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Materials to avoid : Strong bases
Strong oxidizing agents
Mineral acids.

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information


11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : According to the data on the components
Not classified as harmful if swallowed
According to the classification criteria for mixtures.
Unpublished internal reports
Unpublished reports

Acute inhalation toxicity : Effects of breathing high concentrations of vapour may include:
Dizziness
Lung irritation
According to the data on the components
Unpublished internal reports

Acute dermal toxicity : According to the data on the components
Not classified as harmful by contact with skin
According to the classification criteria for mixtures.
Unpublished internal reports
Unpublished reports

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Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation

Skin irritation : According to the data on the components
Not irritating to rabbits on cutaneous application.
Repeated exposure may cause skin dryness or cracking.
According to the classification criteria for mixtures.
Unpublished internal reports
Unpublished reports

Serious eye damage/eye irritation

Eye irritation : According to the data on the components
Not classified as irritating to eyes
According to the classification criteria for mixtures.
Unpublished internal reports
Unpublished reports

Respiratory or skin sensitization

Sensitisation : Inhalation
This information is not available.

Dermal
According to the data on the components

Does not cause skin sensitization.
Method: OECD Test Guideline 406
Unpublished internal reports
Unpublished reports

Mutagenicity

Genotoxicity in vitro : No genotoxic potential was observed in tests performed on the components of the preparation
Unpublished internal reports
Unpublished reports

Genotoxicity in vivo : Data available only for some components.


In vivo micronucleus test negative
Unpublished reports

Data available only for some components.

Rodent dominant Lethal test negative
Unpublished reports

Carcinogenicity

Carcinogenicity : no data available

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Toxicity for reproduction and development

- Toxicity to reproduction/Fertility : According to the data on the components
Fertility and developmental toxicity tests did not reveal any effect on reproduction.
Unpublished internal reports
Unpublished reports
- Developmental Toxicity/ Teratogenicity : According to the data on the components
No effect observed on development
Unpublished internal reports
Unpublished reports

STOT

- STOT - single exposure : Toxicology Assessment:
The substance or mixture is not classified as specific target organ toxicant, single exposure., internal evaluation
- STOT - repeated exposure : Toxicology Assessment:
The substance or mixture is not classified as specific target organ toxicant, repeated exposure., internal evaluation
- D R A F T ---
- According to the data on the components
- Oral According to the classification criteria for mixtures.
No adverse effect has been observed in toxicity tests by repeated administration
Unpublished internal reports
Unpublished reports
- According to the data on the components
- Inhalation According to the classification criteria for mixtures.
No adverse effect has been observed in toxicity tests by repeated administration
Unpublished internal reports
Unpublished reports

Aspiration toxicity


- Aspiration toxicity : According to the data on the components, May be fatal if swallowed and enters airways., According to the classification criteria for mixtures.,
Unpublished reports

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

- Acute toxicity to fish : The product itself has not been tested.
- Acute toxicity to daphnia and other aquatic invertebrates. : The product itself has not been tested.
- Toxicity to aquatic plants : The product itself has not been tested.
- Toxicity to microorganisms : The product itself has not been tested.

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- Chronic toxicity to fish : The product itself has not been tested.
- Chronic toxicity to daphnia and other aquatic invertebrates. : The product itself has not been tested.
- Chronic Toxicity to aquatic plants : According to the data on the components
The product does not have any known adverse effects on the aquatic organisms tested
Unpublished internal reports
Unpublished reports

Terrestrial compartment

- Toxicity to soil dwelling organisms : The product itself has not been tested.
- Toxicity to terrestrial plants : The product itself has not been tested.

Ecotoxicity assessment

- Acute aquatic toxicity : According to the data on the components
This product has no known eco-toxicological effects.
Unpublished internal reports
Unpublished reports

12.2 Persistence and degradability

Biodegradability

- Biodegradability
Hydrocarbons, C11-C13, Isoalkanes, <2% aromatics : By analogy

Inherently biodegradable.
Method: OECD Test Guideline 301 F
Unpublished reports
- Cerium Iron Oxide Isostearate : Ready biodegradability study:
Not readily biodegradable.
Method: OECD Test Guideline 301 B
Unpublished internal reports

12.3 Bioaccumulative potential


- Partition coefficient: n-octanol/water
Cerium Iron Oxide Isostearate : Not potentially bioaccumulable
Unpublished internal reports

12.4 Mobility in soil

- Known distribution to environmental compartments : Predicted distribution to environmental compartments

12.5 Results of PBT and vPvB assessment

- Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

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12.6 Other adverse effects

Environment assessment : Not classified as Dangerous for the Environment, according to EC criteria
According to the classification criteria for mixtures.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal

Advice on Disposal : Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

Advice on cleaning and disposal of packaging

Advice : Carefully drain and then steam clean.

Reason for waste disposal : May be reused following decontamination.

Other data : Dispose of in accordance with local regulations.

SECTION 14: Transport information

ADR

Not Regulated

RID

Not Regulated

IMDG

Not Regulated

IATA

Not Regulated

ADN/ADNR

Not Regulated

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.


SECTION 15: Regulatory information

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

According to our knowledge, no specific regulatory information.

15.2 Chemical Safety Assessment

no data available

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SECTION 16: Other information

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

R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

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

H304	May be fatal if swallowed and enters airways.
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Full text of P-Statements referred to under sections 2 and 3.

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Further information

Further information : Mixture in CLP Format

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