

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

- Trade name EOLYS (TM) POWERFLEX KITS

**1.2 Relevant identified uses of the substance or mixture and uses advised against****Uses of the Substance/Mixture**

- 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**

France Auto Sp. z o.o. Sp.k.  
Karniszewicka 79/83 - 95-200 Pabianice POLAND  
Ph: +48 504040204 - sklep@franceauto.pl - www.franceauto.pl

**E-mail address**

sklep@franceauto.pl

**1.4 Emergency telephone number**

+44(0)1235 239 670 [CareChem 24]

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (Regulation (EC) No 1272/2008 )**

- The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

**2.2 Label elements****Regulation (EC) No 1272/2008**

- The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

**Additional Labeling**

- EUH210 Safety data sheet available on request.

**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**

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- Call a physician if irritation develops or persists.

**In case of eye contact**

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If eye irritation persists, consult a physician

**In case of ingestion**

- Do NOT induce vomiting.
- Vomiting may occur spontaneously
- Rinse mouth with water.
- Risk of product entering the lungs on vomiting after ingestion.
- Lay victim on side.
- Immediate medical attention is required.

**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****5.1 Extinguishing media****Suitable extinguishing media**

- Foam
- powder
- Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

- High volume water jet

**5.2 Special hazards arising from the substance or mixture****Specific hazards during firefighting**

- Combustible liquid.
- Container may explode if heated.

**Hazardous combustion products:**

- Carbon oxides

**5.3 Advice for firefighters****Special protective equipment for firefighters**

- Gloves
- Goggles
- Boots
- Full protective suit
- Self-contained breathing apparatus (EN 133)

**Specific fire fighting methods**

- Use a water spray to cool fully closed containers.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- Remove all sources of ignition.

- Avoid contact with the skin and the eyes.
- Ventilate the area.
- Do not breathe vapour.
- Personal protective equipment
- Self-contained breathing apparatus (EN 133)
- Safety glasses
- Boots
- Complete suit protecting against chemicals
- Impervious gloves
- Keep away from flames and hot surfaces.

### 6.2 Environmental precautions

- Prevent product from entering sewage system.

### 6.3 Methods and materials for containment and cleaning up

#### **Recovery**

- Soak up with inert absorbent material.
- Pump up the product into a spare container :- suitably labelled.
- 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.

#### **Methods for containment**

- Dam up with sand or inert earth (do not use combustible materials).
- Stop leak if safe to do so.

### 6.4 Reference to other sections

- no data available

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Take measures to prevent the build up of electrostatic charge.
- To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.
- Provide adequate ventilation.
- Avoid contact with skin and eyes.
- Avoid inhalation of vapour or mist.

#### **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.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions**

- Keep in a cool, well-ventilated place.
- 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
- Keep away from: Acids, Alkalis and caustic products., Reducing materials.

**Packaging material**
**Suitable material**

- Stainless steel
- Teflon (R)
- Hydrocarbon resistant materials.

**Unsuitable material**

- rubbers.

**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.

**8.2 Exposure controls**
**Control measures**
**Engineering measures**

- Local exhaust
- Dust must be extracted directly at the point of origin.

**Individual protection measures**
**Respiratory protection**

- Use a respirator with an approved filter if a risk assessment indicates this is necessary.
- Respirator with filter for organic vapour

**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.

**Skin and body protection**

- Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Remove and wash contaminated clothing.
- Long sleeved 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.

**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.
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**Environmental exposure controls**

- Prevent product from entering sewage system.

<b>SECTION 9: Physical and chemical properties</b>
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**9.1 Information on basic physical and chemical properties**

<b><u>Appearance</u></b>	<b><u>Physical state:</u></b> liquid <b><u>Colour:</u></b> amber
<b><u>Particle size</u></b>	< 10 nm
<b><u>Odour</u></b>	Hydrocarbons
<b><u>Odour Threshold</u></b>	no data available
<b><u>pH</u></b>	Not applicable insoluble product
<b><u>Boiling point/boiling range</u></b>	185 - 213 °C Solvent
<b><u>Flash point</u></b>	> 60 - 64 °C
<b><u>Evaporation rate (Butylacetate = 1)</u></b>	no data available
<b><u>Flammability (solid, gas)</u></b>	no data available
<b><u>Flammability (liquids)</u></b>	no data available
<b><u>Flammability/Explosive limit</u></b>	no data available
<b><u>Auto-ignition temperature</u></b>	255 °C
<b><u>Vapour pressure</u></b>	2 hPa ( 30 °C) Solvent  negligible, Organic compound of Iron
<b><u>Vapour density</u></b>	no data available
<b><u>Density</u></b>	0.89 g/cm <sup>3</sup> ( 20 °C)

**Solubility**

Water solubility :  
 0.13 mg/l ( 20 °C)  
 Organic compound of Iron  
 < 1 mg/l ( 20 °C)  
 Solvent

Solubility in other solvents:  
 common organic solvents : soluble

**Partition coefficient: n-octanol/water**

log Pow: 6.3  
 Organic compound of Iron  
 no data available, Solvent

**Thermal decomposition**

no data available

**Viscosity**

Viscosity, kinematic : 28.45 mm<sup>2</sup>/s ( 40 °C)

**Explosive properties**

negative  
 Mechanical sensitivity (shock)

**Oxidizing properties**

no data available

**9.2 Other information**

no data available

<b>SECTION 10: Stability and reactivity</b>
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**10.1 Reactivity**

- no data available

**10.2 Chemical stability**

- Stable at room temperature.

**10.3 Possibility of hazardous reactions**

- Hazardous polymerisation does not occur.

**10.4 Conditions to avoid**

- Keep away from flames and sparks.
- Keep away from heat and sources of ignition.
- Static electricity
- Electric arcs

**10.5 Incompatible materials**

- Strong acids and strong bases
- Strong oxidizing agents
- Mineral acids.

**10.6 Hazardous decomposition products**

- Carbon oxides

**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  
 Bibliography

**Acute inhalation toxicity**

According to the data on the components  
 Not classified as harmful by inhalation  
 According to the classification criteria for mixtures.  
 Unpublished 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

**Acute toxicity (other routes of administration)**

no data available

Skin corrosion/irritation

According to the data on the components  
 Not classified as irritating to skin  
 According to the classification criteria for mixtures.  
 Unpublished internal reports  
 Unpublished reports

Serious eye damage/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 sensitisation

Dermal  
 According to the data on the components  
 Not classified as sensitising by skin contact  
 According to the classification criteria for mixtures.  
 Unpublished internal reports  
 Unpublished reports

Mutagenicity
**Genotoxicity in vitro**

No genotoxic potential was observed in tests performed on the components of the preparation  
 Product is not considered to be genotoxic  
 Unpublished internal reports  
 Unpublished reports

**Genotoxicity in vivo**

Hydrocarbons, C11-C13, Isoalkanes,  
 <2% aromatics

By analogy

In vivo micronucleus test - Mouse  
 male and female  
 Oral exposure

negative



Unpublished reports

By analogy

Rodent dominant Lethal testmale and female  
Inhalation

negative  
Unpublished reports

**Carcinogenicity**

no data available

**Toxicity for reproduction and development**

**Toxicity to reproduction/Fertility**

Data available only for some components.  
Fertility and developmental toxicity tests did not reveal any effect on reproduction.  
Unpublished internal reports  
Unpublished reports

**Developmental Toxicity/Teratogenicity**

In the tests done on the components of the preparation  
no embryotoxic or teratogenic effects have been observed  
Unpublished internal reports  
Unpublished reports

**STOT**

**STOT - single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.  
internal evaluation

**STOT - repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria., internal evaluation

According to the data on the components  
No adverse effect has been observed in toxicity tests by repeated administration  
In the tests done on the components of the preparation  
Unpublished internal reports  
Unpublished reports

**Aspiration toxicity**

No aspiration toxicity classification, internal evaluation

**SECTION 12: Ecological information**
**12.1 Toxicity**
**Aquatic Compartment**
**Acute toxicity to fish**

 Hydrocarbons, C11-C13, Isoalkanes,  
<2% aromatics

By analogy

 LC50 - 96 h : > 1,000 mg/l - Oncorhynchus mykiss (rainbow trout)  
 Method: OECD Test Guideline 203  
 Unpublished reports

2-ethylhexan-1-ol

 LC50 - 96 h : 17.1 mg/l - Leuciscus idus (Golden orfe)  
 Method: OECD Test Guideline 203  
 Unpublished reports

Iron organic compound

By analogy

 LC50 - 96 h : > 100 mg/l - Oncorhynchus mykiss (rainbow trout)  
 Method: OECD Test Guideline 203  
 Unpublished internal reports

**Acute toxicity to daphnia and other aquatic invertebrates.**

 Hydrocarbons, C11-C13, Isoalkanes,  
<2% aromatics

By analogy

 LC50 - 48 h : > 1,000 mg/l - Daphnia magna (Water flea)  
 Method: OECD Test Guideline 202  
 Unpublished reports

2-ethylhexan-1-ol

 EC50 - 48 h : 39 mg/l - Daphnia magna (Water flea)  
 Method: OECD Test Guideline 202  
 Unpublished reports

Iron organic compound

 EC50 - 48 h : > 100 mg/l - Daphnia magna (Water flea)  
 Method: OECD Test Guideline 202  
 Unpublished internal reports

**Toxicity to aquatic plants**Hydrocarbons, C11-C13, Isoalkanes,  
<2% aromatics

By analogy

EC50 - 72 h : > 1,000 mg/l - Pseudokirchneriella subcapitata (microalgae)  
 Method: OECD Test Guideline 201  
 Growth rate  
 Unpublished reports

2-ethylhexan-1-ol

EC50 - 72 h : 16.6 mg/l - Scenedesmus subspicatus  
 Method: OECD Test Guideline 201  
 Growth rate  
 Unpublished reports

EC10 - 72 h : 5.3 mg/l - Scenedesmus subspicatus  
 Method: OECD Test Guideline 201  
 Unpublished reports

Iron organic compound

By analogy

EC50 - 96 h : > 100 mg/l - Pseudokirchneriella subcapitata (microalgae)  
 Method: OECD Test Guideline 201  
 Unpublished internal reports

**Toxicity to microorganisms**

Iron organic compound

By analogy

NOEC - 3 h : >= 1,000 mg/l - activated sludge  
 Method: OECD Test Guideline 209  
 Unpublished internal reports

**Chronic toxicity to fish**

Iron organic compound

Method: according to a standardised method  
 By analogy

NOEC: >= 100 mg/l - 28 d - Oncorhynchus mykiss (rainbow trout)  
 Unpublished internal reports

**Chronic toxicity to daphnia and other aquatic invertebrates.**Hydrocarbons, C11-C13, Isoalkanes,  
<2% aromatics

NOEC: >= 1.0 mg/l - 21 d - Daphnia magna (Water flea)  
 Method: OECD Test Guideline 211  
 Unpublished reports

Iron organic compound

By analogy

NOEC: >= 100 mg/l - 22 d - Daphnia magna (Water flea)  
 Method: OECD Test Guideline 211  
 Unpublished internal reports

**Chronic Toxicity to aquatic plants**Hydrocarbons, C11-C13, Isoalkanes,  
<2% aromatics

By analogy

NOEC:  $\geq$  1000 mg/l - 72 d - Pseudokirchneriella subcapitata (microalgae)  
 Method: OECD Test Guideline 201  
 Growth rate  
 Unpublished reports

Iron organic compound

By analogy

NOEC:  $\geq$  100 mg/l - 96 d - Pseudokirchneriella subcapitata (microalgae)  
 Method: OECD Test Guideline 201  
 Unpublished internal reports

**Terrestrial Compartment****Toxicity to soil dwelling organisms**

Iron organic compound

LC50: > 1,000 mg/kg - 14 d - Eisenia fetida (earthworms)  
 Method: OECD Test Guideline 207  
 By analogy  
 Unpublished internal reports

EC50: > 1,000 mg/kg - 28 d  
 Method: OECD Test Guideline 216  
 By analogy  
 Unpublished internal reports

**Toxicity to terrestrial plants**

Iron organic compound

EC50: > 1,000 mg/kg - 21 Days - Allium cepa  
 Method: OECD Test Guideline 208  
 Unpublished internal reports

EC50: > 1,000 mg/kg - 21 Days - Avena sativa (oats)  
 Method: OECD Test Guideline 208  
 Unpublished internal reports

EC50: > 1,000 mg/kg - 21 Days - Beta vulgaris  
 Method: OECD Test Guideline 208  
 Unpublished internal reports

EC50: > 1,000 mg/kg - 21 Days - Brassica napus  
 Method: OECD Test Guideline 208  
 Unpublished internal reports

EC50: > 1,000 mg/kg - 21 Days - Cucumis sativus  
 Method: OECD Test Guideline 208  
 Unpublished internal reports

EC50: > 1,000 mg/kg - 21 Days - Glycine max  
 Method: OECD Test Guideline 208  
 Unpublished internal reports

**12.2 Persistence and degradability****Biodegradation****Biodegradability**

Conclusion is not possible due to incomplete or heterogeneous data on the components

**12.3 Bioaccumulative potential****Partition coefficient: n-octanol/water**

2-ethylhexan-1-ol

Not potentially bioaccumulable

Iron organic compound

Bioaccumulative potential

**12.4 Mobility in soil****Adsorption potential (Koc)**

2-ethylhexan-1-ol

Koc: 26

Calculation method

Iron organic compound

Koc: 159587.92

Log Koc: 5.2

Calculation method

**Known distribution to environmental compartments**

Product may be distributed into the various environmental compartments

**12.5 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).

**12.6 Other adverse effects**

no data available

**Ecotoxicity assessment****Acute aquatic toxicity**

According to the data on the components

The product does not have any known adverse effects on the aquatic organisms tested

According to the classification criteria for mixtures.

Unpublished reports

Unpublished internal reports

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product Disposal**

- Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

**Advice on cleaning and disposal of packaging**

- Carefully drain and then steam clean.
- May be reused following decontamination.
- 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

## SECTION 16: Other information

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

- |        |   |
|--------|---|
| - H304 | May be fatal if swallowed and enters airways. |
| - H315 | Causes skin irritation.                       |
| - H319 | Causes serious eye irritation.                |
| - H332 | Harmful if inhaled.                           |
| - H335 | May cause respiratory irritation.             |

### Further information

- Mixture in CLP Format

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 any 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.