

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

1.1. Product identifier

Product form : Mixture
 Product name : EOLYS POWERFLEX
 Product code : 58922-225, 59057-225, 59058-225, 59059-225, 59060-225, 59061-225, 59062-225,
 59063-225, 59064-225, 59066-22, 59067-225

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

AIC - JÜRGEN LIEBISCH GMBH
 Wilhelm-Bergner-Str. 11c - 21509 Glinde - Germany
 Tel.: +49 40 253066-0
 contact@aic-germany.de - www.aic-germany.de

1.4. Emergency telephone number

Emergency number : + 32 (0)70.245.245 / +33 (0)1.45.42.59.59

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	+356 2545 6508	
Saudi Arabia	Poison Control Center-Riyadh	General Directorate of Health Affairs Medial Province	+966 112324180 +966 112324189	
United Arab Emirates	Health Authority – Abu Dhabi (HAAD) Poison & Drug Information Center (PDIC)	P.O. Box 5674	+ 800-424	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP)	: P262 - Do not get in eyes, on skin, or on clothing. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. P501 - Dispose of contents/container to a hazardous or special waste collection point.
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking.
Extra phrases	: For professional users only.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Iron oxide isostearate (865812-80-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics substance with national workplace exposure limit(s) (FR)	CAS-No.: 90622-58-5 EC-No.: 920-901-0 REACH-no: 01-2119456810-40	30-50	Asp. Tox. 1, H304 EUH066
2-ethylhexan-1-ol substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, IE, LV, PL, RO, SE); substance with a Community workplace exposure limit	CAS-No.: 104-76-7 EC-No.: 203-234-3 REACH-no: 01-2119487289-20	1-10	Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Repeated exposure may cause skin dryness or cracking.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Water spray. Dry powder. Foam.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
Other information : Prevent liquid from entering sewers, watercourses, underground or low areas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas. Keep public away from danger area. Equip cleanup crew with proper protection.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Recover the product with absorbent material.
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product.
Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation.

Storage conditions	: Store in a closed container. Keep out of frost.
Heat and ignition sources	: Keep away from naked flames/heat. Keep away from ignition sources.
Storage area	: Store in a dry place. Store in a well-ventilated place.
Special rules on packaging	: Store in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics (90622-58-5)

France - Occupational Exposure Limits

VME (OEL TWA)	1000 mg/m ³
VLE (OEL C/STEL)	1500 mg/m ³

2-ethylhexan-1-ol (104-76-7)

EU - Indicative Occupational Exposure Limit (IOEL)

Local name	2-ethylhexan-1-ol
IOEL TWA	5,4 mg/m ³
IOEL TWA [ppm]	1 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164

Austria - Occupational Exposure Limits

MAK (OEL TWA)	5,4
MAK (OEL TWA) [ppm]	1 ppm
MAK (OEL STEL)	10,8
MAK (OEL STEL) [ppm]	2 ppm

Belgium - Occupational Exposure Limits

OEL TWA	5,4 mg/m ³
OEL TWA [ppm]	1 ppm

Denmark - Occupational Exposure Limits

OEL TWA [1]	5,4 mg/m ³
OEL TWA [2]	1 ppm
OEL STEL	10,8 mg/m ³
OEL STEL [ppm]	2 ppm

Finland - Occupational Exposure Limits

HTP (OEL TWA) [1]	5,4 mg/m ³
HTP (OEL TWA) [2]	1 ppm

France - Occupational Exposure Limits

VME (OEL TWA)	5,4 mg/m ³
VME (OEL TWA) [ppm]	1 ppm

2-ethylhexan-1-ol (104-76-7)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	54 mg/m ³
AGW (OEL TWA) [2]	10 ppm
Ireland - Occupational Exposure Limits	
OEL TWA [1]	5,4 mg/m ³
OEL TWA [2]	1 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	5,4 mg/m ³
OEL TWA [ppm]	1 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	5,4 mg/m ³
NDSch (OEL STEL)	10,8 mg/m ³
NDSP (OEL C)	0 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	5,4 mg/m ³
OEL TWA [ppm]	1 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	5,4 mg/m ³
VLA-ED (OEL TWA) [2]	1
VLA-EC (OEL STEL)	110 mg/m ³
VLA-EC (OEL STEL) [ppm]	20 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	5,4 mg/m ³
NGV (OEL TWA) [ppm]	1 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	5,4 mg/m ³
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	5,4 mg/m ³
MAK (OEL TWA) [2]	1 ppm
KZGW (OEL STEL)	10,8 mg/m ³
KZGW (OEL STEL) [ppm]	2 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. ISO 16321-1. Wear eye protection

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Gloves. ISO 374-1. Wear protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

Good ventilation of the workplace required

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Dark amber.
Appearance	: Liquid.
Odour	: Hydrocarbons.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: 185 – 213 °C
Flammability	: Combustible liquid
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 60 °C
Auto-ignition temperature	: 255 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 28,45 mm ² /s (40°C)
Solubility	: soluble in most organic solvents. Water: 0,13 mg/l (20°C)
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 2 hPa (30°C)
Vapour pressure at 50°C	: Not available
Density	: 0,89 g/cm ³ (20°C)
Relative density	: Not available
Relative vapour density at 20°C	: Not available

Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Heat. Open flame. Sparks. Water, humidity. Freezing.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics (90622-58-5)

LD50 oral rat	> 5000 mg/kg
LD50 oral	> 10000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LD50 dermal	> 3160 mg/kg
LC50 Inhalation - Rat	> 5000 mg/m ³

2-ethylhexan-1-ol (104-76-7)

LD50 oral rat	> 3290 mg/kg
LD50 dermal rabbit	> 3000 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

2-ethylhexan-1-ol (104-76-7)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

EOLYS POWERFLEX

Viscosity, kinematic	28,45 mm ² /s (40°C)
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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

2-ethylhexan-1-ol (104-76-7)

LC50 - Fish [1]	28,2 mg/l (Pimephales promelas, 4DY)
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EC50 - Crustacea [1]	39 mg/l (Daphnia magma)
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EC50 72h - Algae [1]	11,5 mg/l (Desmodesmus subspicatus)
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12.2. Persistence and degradability

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics (90622-58-5)

Persistence and degradability	Readily biodegradable.
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Iron oxide isostearate (865812-80-2)

Persistence and degradability	Not readily biodegradable.
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12.3. Bioaccumulative potential

Iron oxide isostearate (865812-80-2)

Bioaccumulative potential	bioaccumulative.
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12.4. Mobility in soil

Iron oxide isostearate (865812-80-2)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5,2
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12.5. Results of PBT and vPvB assessment

Component

Iron oxide isostearate (865812-80-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Sewage disposal recommendations : Do not discharge into drains or the environment.
- Product/Packaging disposal recommendations : Collect all waste in suitable and labelled containers and dispose according to local legislation.
- Additional information : Empty the packaging completely prior to disposal. Do not re-use empty containers.
- Ecology - waste materials : Do not discharge the product into the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
- Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

- SZW-lijst van kankerverwekkende stoffen : None of the components are listed
- SZW-lijst van mutagene stoffen : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

- Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.