

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

#### 1.1. Product identifier

Product form : Mixture  
 Product name : EOLYS EXTEND  
 UFI : XVVV-S58R-190H-W6N2  
 Product code : 59056-225, 59065-225

#### 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  
 Function or use category : Fuel additives

##### 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]

Aspiration hazard, Category 1 H304  
 Full text of H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) :

Danger

Contains :

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

Hazard statements (CLP) :

H304 - May be fatal if swallowed and enters airways.

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.

P331 - Do NOT induce vomiting.

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

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

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	60 – 70	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 – 5	Not classified

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. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
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. If eye irritation persists: Get medical advice/attention.
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.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

#### 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

Fire hazard	: Combustible liquid. Explosion risk in case of fire.
Explosion hazard	: Heating may cause an explosion.
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.
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##### 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. Take precautionary measures against static discharge.  
 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.  
 Incompatible materials : Acids. alkalis. Reducing agent.  
 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.  
 Packaging materials : stainless steel. Teflon.

### 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 <sup>3</sup>
VLE (OEL C/STEL)	1500 mg/m <sup>3</sup>

#### 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 <sup>3</sup>
IOEL TWA [ppm]	1 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164

##### Austria - Occupational Exposure Limits

MAK (OEL TWA)	5,4 mg/m <sup>3</sup>
MAK (OEL TWA) [ppm]	1 ppm
MAK (OEL STEL)	10,8 mg/m <sup>3</sup>
MAK (OEL STEL) [ppm]	2 ppm

<b>2-ethylhexan-1-ol (104-76-7)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	5,4 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	5,4 mg/m <sup>3</sup>
OEL TWA [2]	1
OEL STEL	10,8 mg/m <sup>3</sup>
OEL STEL [ppm]	2 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA) [1]	5,4 mg/m <sup>3</sup>
HTP (OEL TWA) [2]	1 ppm
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	5,4 mg/m <sup>3</sup>
VME (OEL TWA) [ppm]	1 ppm
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	54 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	10 ppm
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	5,4 mg/m <sup>3</sup>
OEL TWA [2]	1 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	5,4 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	5,4 mg/m <sup>3</sup>
NDSP (OEL C)	10,8 mg/m <sup>3</sup>
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	5,4 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	5,4 mg/m <sup>3</sup>
VLA-ED (OEL TWA) [2]	1 ppm
VLA-EC (OEL STEL)	110 mg/m <sup>3</sup>
VLA-EC (OEL STEL) [ppm]	20 ppm
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	5,4 mg/m <sup>3</sup>
NGV (OEL TWA) [ppm]	1 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	5,4 mg/m <sup>3</sup>

2-ethylhexan-1-ol (104-76-7)	
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA) [1]	5,4 mg/m <sup>3</sup>
MAK (OEL TWA) [2]	1 ppm
KZGW (OEL STEL)	10,8 mg/m <sup>3</sup>
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

Respiratory protection			
Device	Filter type	Condition	Standard
Breathing equipment	Gas/vapour filter	Vapour protection	

#### 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	: 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
Explosive properties	: Product is not explosive.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 60 – 64 °C
Auto-ignition temperature	: 255 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 6 mm <sup>2</sup> /s (40°C)
Solubility	: soluble in most organic solvents.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: 6,3
Vapour pressure	: 2 hPa (30°C)
Vapour pressure at 50°C	: Not available
Density	: 0,89 g/cm <sup>3</sup> (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. Avoid the build-up of electrostatic charge.

#### 10.5. Incompatible materials

Bases. Acids. Strong reducing agents. Strong oxidizers.

#### 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 <sup>3</sup>

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

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

Skin corrosion/irritation : Not classified

#### Water (7732-18-5)

pH	7
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Serious eye damage/irritation : Not classified

#### Water (7732-18-5)

pH	7
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Respiratory or skin sensitisation : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified  
 Reproductive toxicity : Not classified  
 STOT-single exposure : Not classified  
 STOT-repeated exposure : Not classified  
 Aspiration hazard : May be fatal if swallowed and enters airways.

#### EOLYS POWERFLEX EXTEND

Viscosity, kinematic	6 mm <sup>2</sup> /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)
EC50 - Crustacea [1]	39 mg/l (Daphnia magna)
EC50 72h - Algae [1]	11,5 mg/l (Desmodesmus subspicatus)

### 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

#### EOLYS POWERFLEX EXTEND

Partition coefficient n-octanol/water (Log Pow)	6,3
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#### 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

#### EOLYS POWERFLEX EXTEND

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

#### 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
<b>14.1. UN number or ID number</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>			
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

- Class for fire hazard : Class III-1
- Store unit : 50 liter
- Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of H- and EUH-statements:	
Asp. Tox. 1	Aspiration hazard, Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
H304	May be fatal if swallowed and enters airways.

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.