



# DIESEL ADDITIVE LZ-IC

## SAFETY DATA SHEET

according to Regulation (EU) 2015/830

ISSUE DATE: 26.03.2014  
REVISION DATE: 19.04.2017  
SUPERSEDES DATE: 07.10.2014  
VERSION: 4.0

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

#### 1.1. Product identifier

Trade name	Diesel Additive LZ-IC
Product code	Ford Internal Ref: 187791
SDS Number	7611
Tactile warning of danger (EN/ISO 11683)	Professional use

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

Relevant identified uses	Hydraulic fluids and additives
Uses advised against	No additional information available.

#### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	<b>Distributor</b>
Ford-Werke GmbH	Ford Motor Company Ltd.
Edsel-Ford-Str. 2-14	Parts Distribution Centre
50769 Cologne	Royal Oak Way South
Germany	NN11 8NT Daventry, Northants
+49 221 90-33333	United Kingdom
sdseu@ford.com	+44 1327 305 198

#### 1.4. Emergency telephone number

+49 (0) 6132-84463 (GBK GmbH – 24/7)

### 2. SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

<b>Health hazards</b>	Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
	Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.

#### 2.2. Label elements

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

Hazard pictograms



Signal word

Warning

Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary statements

Prevention

P280	Wear eye protection, face protection, protective gloves.
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**Response**

P332+P313

If skin irritation occurs: Get medical advice/attention.

P337+P313

If eye irritation persists: Get medical advice/attention.

P362+P364

Take off contaminated clothing and wash it before reuse.

**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.

**3. SECTION 3: Composition/information on ingredients****3.2. Mixtures**

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	918-481-9	20 - < 50	Asp. Tox. 1, H304	
2-ethylhexan-1-ol	104-76-7 203-234-3 01-2119487289-20-XXXX	10 - < 20	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 649-467-00-8 01-2119484627-25-XXXX	1 - < 10	Carc. 1B, H350 Asp. Tox. 1, H304	(Note L)

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H-statements: see section 16

**4. SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

Remove person to fresh air and keep comfortable for breathing.

**Skin contact**

Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

**Eyes contact**

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.

**Ingestion**

Call a poison center or a doctor if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed****Symptoms/effects after skin contact**

Irritation. Repeated exposure may cause skin dryness or cracking.

**Symptoms/effects after eye contact**

Eye irritation.

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

Treat symptomatically.

## 5. SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Toxic fumes may be released.
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### 5.3. Advice for firefighters

Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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## 6. SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	
Emergency procedures	Ventilate spillage area. Avoid contact with skin and eyes.
For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

	Avoid release to the environment.
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### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Large Spills: Stop leak if safe to do so. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Flush residue with large amounts of water. Small spills: Wipe up with absorbent material (for example cloth). Clean surface thoroughly to remove residual contamination.
Other information	Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

	For further information refer to section 13.
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## 7. SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Handling temperature	50 °C
Hygiene measures	Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions	Store in a well-ventilated place. Keep cool.
Storage temperature	45 °C

### 7.3. Specific end use(s)

	No additional information available.
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## 8. SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### EU

Regulation	Substance	Type	Value
COMMISSION	2-ethylhexan-1-ol (104-76-7)	IOELV TWA	5.4 mg/m <sup>3</sup>

**EU**DIRECTIVE (EU)  
2017/164

2-ethylhexan-1-ol

IOELV TWA

1 ppm

**DNEL: Derived no effect level**

Components	Type	Route	Value	Form
2-ethylhexan-1-ol (104-76-7)	Worker	Inhalation	53.2 mg/m <sup>3</sup>	Acute - local effects
		Dermal	23 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	12.8 mg/m <sup>3</sup>	Long-term - systemic effects
		Inhalation	53.2 mg/m <sup>3</sup>	Long-term - local effects
	Consumer	Inhalation	26.6 mg/m <sup>3</sup>	Acute - local effects
		Oral	1.1 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	2.3 mg/m <sup>3</sup>	Long-term - systemic effects
		Dermal	11.4 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	26.6 mg/m <sup>3</sup>	Long-term - local effects

**PNEC: Predicted no effect concentration**

Components	Type	Route	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	Not applicable.	Oral	9.33 mg/kg Food/feed stuff	Secondary Poisoning
2-ethylhexan-1-ol (104-76-7)	Not applicable.	Freshwater	0.017 mg/l	
		Seawater	0.002 mg/l	
		Freshwater sediment	0.17 mg/l	Intermittent release
		Freshwater sediment	0.284 mg/kg dwt	Freshwater
		Seawater sediment	0.028 mg/kg dwt	Seawater
		Soil	0.047 mg/kg dwt	
		Oral	55 kg/kg food	Secondary Poisoning
		STP	10 mg/l	

**8.2. Exposure controls****Appropriate engineering controls**

Ensure good ventilation of the work station.

**Materials for protective clothing**

No additional information available.

**Individual protection measures, such as personal protective equipment (PPE)****Eye protection**

Safety glasses.

**Skin protection****Hand protection**

The protective gloves to be used must comply with the specification of EU directive 89/686/EC and the resultant standard EN374. The above given information is based on laboratory test in line with EN374. The recommendation is only valid for the supplied product and the stated application. Special working conditions, like heat or mechanical strain, which deviate from the test conditions, can reduce the protective effect provided by the recommended glove.

Material	Permeation	Thickness (mm)	Comments
Nitrile rubber (NBR)	6 (> 480 minutes)	0.4	Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.
In case of splash contact: Nitrile rubber (NBR)	6 (> 480 minutes)	0.4	Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.
<b>Other protective measures</b>			No additional information available.
<b>Respiratory protection</b>			In case of insufficient ventilation, wear suitable respiratory equipment

Thermal hazard protection	No additional information available.
Environmental exposure controls	Avoid release to the environment.

## 9. SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	dark red.
Odour	mild.
Odour threshold	No data available.
pH	No data available.
Relative evaporation rate (butylacetate=1)	No data available.
Melting point	Not applicable.
Freezing point	No data available.
Boiling point	No data available.
Flash point	67 °C (closed cup)
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Flammability (solid, gas)	Not applicable.
Vapour pressure	No data available.
Relative vapour density at 20 °C	No data available.
Relative density	0.872 - 0.912 @ 15.6°C
Solubility	insoluble in water.
Log Pow	No data available.
Viscosity, kinematic	225 mm <sup>2</sup> /s @ 40°C 2600 mm <sup>2</sup> /s @ 0°C
Viscosity, dynamic	No data available.
Explosive properties	No data available.
Oxidising properties	No data available.
Explosive limits	No data available.

### 9.2. Other information

VOC (EU)	0 %
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## 10. SECTION 10: Stability and reactivity

10.1. Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid	No flames, no sparks. Eliminate all sources of ignition. Heat. High temperature.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	Thermal decomposition generates : fume. Carbon oxides (CO, CO <sub>2</sub> ).

## 11. SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Mixture	

Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
Diesel Additive LZ-IC		ATE	Inhalation	> 20	mg/l/4h		(calculated value)
<b>Substance</b>							
Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
2-ethylhexan-1-ol (104-76-7)		ATE	Inhalation	11	mg/l/4h		
<b>Skin corrosion/irritation</b>							Causes skin irritation.
<b>Serious eye damage/irritation</b>							Causes serious eye irritation.
<b>Respiratory or skin sensitisation</b>							Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>							Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>							Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>							Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>							Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>							Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>							Based on available data, the classification criteria are not met.

## 12. SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecology - general

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

### 12.2. Persistence and degradability

No additional information available.

### 12.3. Bioaccumulative potential

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

Log Pow	2.9
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### 12.4. Mobility in soil

No additional information available.

### 12.5. Results of PBT and vPvB assessment

#### Diesel Additive LZ-IC

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.

### 12.6. Other adverse effects

No additional information available.

## 13. SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions.

#### European List of Waste (LoW) code

15 01 10\*

packaging containing residues of or contaminated by dangerous substances

13 07 01\*

fuel oil and diesel

## 14. SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

#### UN-No. (ADR)

Not applicable.

<b>UN-No. (IMDG)</b>	Not applicable.
<b>UN-No. (IATA)</b>	Not applicable.
<b>UN-No. (ADN)</b>	Not applicable.
<b>UN-No. (RID)</b>	Not applicable.
<b>14.2. UN proper shipping name</b>	
<b>Proper Shipping Name (ADR)</b>	Not applicable.
<b>Proper Shipping Name (IMDG)</b>	Not applicable.
<b>Proper Shipping Name (IATA)</b>	Not applicable.
<b>Proper Shipping Name (ADN)</b>	Not applicable.
<b>Proper Shipping Name (RID)</b>	Not applicable.
<b>14.3. Transport hazard class(es)</b>	
<b>ADR</b>	
<b>Transport hazard class(es) (ADR)</b>	Not applicable.
<b>IMDG</b>	
<b>Transport hazard class(es) (IMDG)</b>	Not applicable.
<b>IATA</b>	
<b>Transport hazard class(es) (IATA)</b>	Not applicable.
<b>ADN</b>	
<b>Transport hazard class(es) (ADN)</b>	Not applicable.
<b>RID</b>	
<b>Transport hazard class(es) (RID)</b>	Not applicable.
<b>14.4. Packing group</b>	
<b>Packing group (ADR)</b>	Not applicable.
<b>Packing group (IMDG)</b>	Not applicable.
<b>Packing group (IATA)</b>	Not applicable.
<b>Packing group (ADN)</b>	Not applicable.
<b>Packing group (RID)</b>	Not applicable.
<b>14.5. Environmental hazards</b>	
<b>Dangerous for the environment</b>	No
<b>Marine pollutant</b>	No
<b>Other information</b>	No supplementary information available.
<b>14.6. Special precautions for user</b>	
<b>Overland transport</b>	
Not applicable.	
<b>Transport by sea</b>	
Not applicable.	
<b>Air transport</b>	
Not applicable.	
<b>Inland waterway transport</b>	
Not applicable.	
<b>Rail transport</b>	
Not applicable.	

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

### 15. SECTION 15: Regulatory information

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

##### EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006

Distillates (petroleum), hydrotreated heavy paraffinic - 2-ethylhexan-1-ol	3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008
Diesel Additive LZ-IC - Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics - Distillates (petroleum), hydrotreated heavy paraffinic - 2-ethylhexan-1-ol	3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
Distillates (petroleum), hydrotreated heavy paraffinic	28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC (EU) 0 %

##### National regulations

No additional information available.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### 16. SECTION 16: Other information

##### Full text of H- and EUH-statements

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4.
Asp. Tox. 1	Aspiration hazard, Category 1.
Carc. 1B	Carcinogenicity, Category 1B.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2.
Skin Irrit. 2	Skin corrosion/irritation, Category 2.
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation.
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.
H350	May cause cancer.

##### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method



*The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.*

# Attachment to the Safety Data Sheet



**Product Name:** Diesel Additive LZ-IC  
**Ford Int. Ref. No.:** 187791

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**Print Date:** 19.04.2017

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**Involved Products:**

	<b>Finiscode</b>	<b>Part number</b>	<b>Container Size:</b>
1.	1 786 569	BU7J M99C58 AB	1 l