



# DIESEL ADDITIVE LZ-IC

## SAFETY DATA SHEET

according to Regulation (EU) 2015/830

ISSUE DATE: 26.03.2014  
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VERSION: 4.1

### 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
Product use	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> Ford-Werke GmbH Edsel-Ford-Str. 2-14 50769 Cologne Germany +49 221 90-33333 sdseu@ford.com	<b>Distributor</b> Ford Motor Company Ltd. Parts Distribution Centre Royal Oak Way South NN11 8NT Daventry, Northants United Kingdom +44 1327 305 198
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#### 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 protective gloves, eye protection.
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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 01-2119457273-39- XXXX	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	#

#: substance with a Community workplace exposure limit

Full text of H-statements: see section 16

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

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Inhalation**

Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

**Skin contact:**

Take off contaminated clothing. Wash skin with plenty of water. 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**

Do NOT induce vomiting. Rinse mouth thoroughly. 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**

Causes serious 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

Fire hazard	Explosion risk in case of fire. Pressurised container: May burst if heated. The vapours are denser than air and may travel along the ground. Distance ignition possible. Will float and can be reignited on water surface.
Explosion hazard	Vapours may form explosive mixture with air.
Hazardous combustion products	Toxic fumes may be released. Carbon oxides (CO, CO <sub>2</sub> ).

## 5.3. Advice for firefighters

Precautionary measures fire	Move containers from fire area if it can be done without personal risk.
Firefighting instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## 6. SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Protective equipment	Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.
Emergency procedures	Ventilate spillage area. Avoid contact with skin and eyes. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Local authorities should be advised if significant spillages cannot be contained.

#### 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".
Emergency procedures	Keep unnecessary personnel away.

### 6.2. Environmental precautions

Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so. Inform appropriate managerial or supervisory personnel of all environmental releases.

### 6.3. Methods and material for containment and cleaning up

For containment	Stop leak without risks if possible. Move containers from fire area if it can be done without personal risk.
Methods for cleaning up	Large Spills: Stop leak if safe to do so. Dike the spilled material, where this is possible. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Cover with plastic sheet to prevent spreading. Following product recovery, flush area with water. Small spills: Wipe up with absorbent material (for example cloth). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.
Other information	Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

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

## 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. All equipment used when handling the product must be grounded.
Handling temperature	< 50 °C
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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

<b>Storage conditions</b>	Store in a well-ventilated place. Keep cool. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>Storage temperature</b>	< 45 °C

7.3. **Specific end use(s)** Hydraulic fluids and additives.

## 8. SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### EU

Regulation	Substance	Type	Value
COMMISSION DIRECTIVE (EU) 2017/164	<b>2-ethylhexan-1-ol (104-76-7)</b> 2-ethylhexan-1-ol	IOELV TWA IOELV TWA	5.4 mg/m <sup>3</sup> 1 ppm

#### United Kingdom

Regulation	Substance	Type	Value
EH40/2005 (Fourth edition, 2020). HSE	<b>2-ethylhexan-1-ol (104-76-7)</b> 2-ethylhexan-1-ol	WEL TWA WEL TWA	5.4 mg/m <sup>3</sup> 1 ppm

#### **DNEL: Derived no effect level**

No data available

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**

No data available

Components	Type	Route	Value	Form
2-ethylhexan-1-ol (104-76-7)	Not applicable	Freshwater	0.017 mg/l	
		Seawater	0.002 mg/l	
		Freshwater	0.17 mg/l	Intermittent release
		sediment	0.284 mg/kg dwt	Freshwater
		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**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level

#### **Materials for protective clothing**

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment

**Individual protection measures, such as personal protective equipment (PPE)****Eye protection** Safety glasses with side shields. EN 166.**Skin protection****Hand protection**

Protective gloves. EN 374. 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.

**Other protective measures**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment

**Skin and body protection**

Long sleeved protective clothing

**Thermal hazard protection**

Wear appropriate thermal protective clothing, when necessary.

**Environmental exposure controls**

Inform appropriate managerial or supervisory personnel of all environmental releases. Avoid release to the environment.

**9. SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Liquid.
<b>Colour</b>	dark red.
<b>Odour</b>	mild.
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Relative evaporation rate (butylacetate=1)</b>	No data available
<b>Melting point</b>	Not applicable
<b>Pour point</b>	-54 °C
<b>Freezing point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	67 °C (closed cup)
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Vapour pressure</b>	No data available
<b>Relative vapour density at 20 °C</b>	No data available
<b>Relative density</b>	0.872 – 0.912 @ 15.6°C
<b>Solubility</b>	insoluble in water.
<b>Log Pow</b>	No data available
<b>Viscosity, kinematic</b>	225 mm <sup>2</sup> /s @ 40°C 2600 mm <sup>2</sup> /s @ 0°C
<b>Viscosity, dynamic</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Explosive limits</b>	No data available

**9.2. Other information****VOC (EU)** Not applicable

## 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. Strong acids. Aluminium. Peroxides. Sodium hypochlorite.
- 10.6. Hazardous decomposition products** Thermal decomposition generates : fume. Carbon oxides (CO, CO2).

## 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	(acc. CLP 3.1.2)	ATE	Inhalation	> 20	mg/l/4h		(calculated value)

#### Substance

Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
2-ethylhexan-1-ol (104-76-7)	(acc. CLP 3.1.2)	ATE	Inhalation	11	mg/l/4h		vapours
	(OECD 403 method)	LC50	Inhalation	1,5	mg/l/4h	rat	aerosol

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/irritation** Causes serious eye irritation.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met

**Carcinogenicity** Based on available data, the classification criteria are not met

All hydrocarbons in this mixture: Note L is applicable (DMSO <3%), therefore no classification as carcinogen

**Reproductive toxicity** Based on available data, the classification criteria are not met

**STOT-single exposure** Based on available data, the classification criteria are not met

**STOT-repeated exposure** Based on available data, the classification criteria are not met

**Aspiration hazard** Based on available data, the classification criteria are not met

**Potential adverse human health effects and symptoms** Information on Effects: refer to section 4.

## 12. SECTION 12: Ecological information

### 12.1. Toxicity

**Ecology - general** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 12.2. Persistence and degradability

No additional information available.

### 12.3. Bioaccumulative potential

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

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Log Pow 2.9

### 12.4. Mobility in soil

No additional information available.

### 12.5. Results of PBT and vPvB assessment

#### Diesel Additive LZ-IC

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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

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

## 13. SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Regional legislation (waste)** Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Waste treatment methods** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with licensed collector's sorting instructions.

**Product/Packaging disposal recommendations** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Additional information** Dispose in accordance with all applicable regulations.

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

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

13 07 01\* fuel oil and diesel

15 01 10\* packaging containing residues of or contaminated by dangerous substances

## 14. SECTION 14: Transport information

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

Not regulated for transport

## 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

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Diesel Additive LZ-IC ; Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; 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

Contains no substance on the REACH candidate list  $\geq 0,1$  % / SCL

Contains no REACH Annex XIV substances

#### VOC (EU)

Not applicable

**Other information, restriction and prohibition regulations**

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended. Directive 94/33/EC on the protection of young people at work, as amended. Directive 92/85/EEC on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding as amended. For details, refer to section 3 and 8.

**National regulations**

No additional information available.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**16. SECTION 16: Other information****Indication of changes**

Section 1 - Section 16.

**Abbreviations and acronyms**

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ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW	Occupational exposure limit value
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM	Federal Institute for Materials Research and Testing, Germany
BAT	Maximum permissible concentration of biological working substances.
BCF	Bio-concentration factor.
BLV	Biological limit values
BLV	Biological limit values (BGW, Austria)
BMGV	Biological Monitoring Guidance Value (EH40,UK).
BOD5	Biochemical oxygen demand within 5 days
BOD	Biochemical oxygen demand
bw	Body weight.
calcd.	Calculated
CAS	Chemical Abstract Service.
CEN	European Committee for Standardization
CESIO	European Committee on Organic Surfactants and their Intermediates.
COD	Chemical oxygen demand
CLP	Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CMR	Carcinogenic, Mutagenic or Reproduction Toxic Substances
CSA	Chemical safety assessment
CSR	Chemical Safety Report.
DMEL	Derived Minimum Effect Level.
DNEL	Derived no effect level
EAC	European waste catalogue
EC	European community
EC50	Effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
EN	European norm.
ERC	ERC (Environmental Release category)
EU	European Union



GLP	Good Laboratory Practice.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.
GW/VL	Occupational exposure limit value.
GW-kw/VL-cd	Occupational exposure limit value - short term.
GW-M/VL-M	Occupational exposure limit value – "Ceiling".
IATA	International Air Transport Association
IBC code	International Bulk Chemical (Code) (International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk).
ICAO	International Civil Aviation Organization
IC50	Inhibition Concentration 50%.
IECSC	Inventory of Existing Chemical Substances in China.
IMDG	International Maritime Dangerous Goods
ISO	International Standards Organization.
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal Concentration 50%.
LCLo	Lowest published lethal concentration.
LD50	Lethal Dose 50%.
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest observable effect concentration.
LOEL	Lowest observable effect level.
LQ	Limited quantities
TRK-Kzw	Threshold limit value - Short-term exposure limit / Technical reference concentration - short-time value, Austria.
MAK-Mow	Maximum allowable workplace concentration – instantaneous value, Austria.
MAK-Tmw, TRK-Tmw	Maximum allowable workplace concentration – daily mean value / Technical standard concentration – daily mean value, Austria.
MAK	Threshold limit values Germany.
MARPOL	International Convention for the Prevention of Pollution from Ships.
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
NOEL	no-observed-effect level
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limits
PBT	Persistent Bioaccumulative Toxic
PC (Chemical product category)	PC (Chemical product category)
PNEC	Predicted No-Effect Concentration
POCP	Photochemical ozone creation potential.
POP	Persistent Organic Pollutants
PPE	Personal protective equipment
Process category	Process category
REACH	Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL	Specific concentration limit.
STEL	Short-term Exposure Limit

STP	Sewage treatment plant
SU (Sector of use)	SU (Sector of use)
SVHC	Substance of Very High Concern.
TLV	Threshold Limit Value
TRGS	Technical Rules for Hazardous Substances (German Standard).
TWA	Time Weighted Average
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
VbF	Ordinance on Flammable Liquids, Austria
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL-TWA	Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted average)reference period).
WEL-STEL	Workplace Exposure Limit-Short term exposure limit (15-minute reference period).

**Data sources** REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006..

**Training advice** Normal use of this product shall imply use in accordance with the instructions on the packaging

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

Skin Irrit. 2	H315
Eye Irrit. 2	H319

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

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4.
Asp. Tox. 1	Aspiration hazard, Category 1.
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..

#### 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

REVISION DATE: 18.11.2020

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**Involved Products:**

Finiscode	Part number	Container Size:
1 1 786 569	BU7J M99C58 AB	1 l