

Product	<b>FUEL OIL EXTRA LIGHT</b>	Date:	2017/5/29
		Edition:	10

## 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1. Product identifier

- Trade name: EURO FUEL OIL EXTRA LIGHT, EURO FO EL  
FUEL OIL EXTRA LIGHT, with 0,3 % S;  
FUEL OIL EXTRA LIGHT, FO EL
- Chemical name: Fuels, diesel
- EC index no.: 649-224-00-6
- EC no.: 269-822-7
- CAS no.: 68334-30-5
- Registration No.: 01-2119484664-27-0114
- Product code: 1000667  
1000058  
1000056

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

- Relevant identified uses: **Industrial:** Manufacture of Substances, Formulation & (Re)Packing of substances, Use as intermediate, Use as a fuel  
**Professional:** Use as a fuel  
**Consumer:** Use as a fuel
- Uses advised against: The uses that are in the list above are relevant. Other uses are not recommended unless an assessment that proves that the related risks are controlled has been conducted before starting that use.

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

- Manufacturer/supplier: **INA-Industrija nafte, d.d.**
- Address: Av. Većeslava Holjevca 10  
p.p. 555, 10002 Zagreb, CROATIA
- Phone: 00-385-1-6450-842 / 00-385-1-6451-075 (24 h)
- Fax: 00-385-1-6452-050 e-mail: [sds@ina.hr](mailto:sds@ina.hr)
- Responsible person: **Sustainable Development and Health, Safety and Environment Sector**  
Mirela Mavrinac, B. Sc.  
Hrvoje Raukar, B. Sc. Tel. 00-385-1-6450-803

### 1.4. Emergency Telephone Number

- Emergency Service Telephone Number: **112**  
**National Protection and Rescue Directorate** 00-385-1-3650-011  
Nehajska 5, 10000 Zagreb 00-385-1-3650-084  
e-mail: [info@duzs.hr](mailto:info@duzs.hr) 00-385-1-3650-082  
00-385-1-3650-083
- Medical Information Telephone Number: **00-385-1-23-48-342**

Product	<b>FUEL OIL EXTRA LIGHT</b>	Date:	2017/5/29
		Edition:	10

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### 2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP/GHS):

Flam. Liquid 3: H226

Asp. Tox. 1: H304

Skin Irrit. 2: H315

Acute Tox 4: H332

Carc.2: H351

STOT (RE): H373

Aquatic Chronic 2: H411

### 2.2. Substance or mixture labelling

#### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)

Hazard pictograms:



GHS02



GHS08



GHS09



GHS07

Signal word: Danger

Hazard statements (H):	H226	Flammable liquid and vapour.
	H304	May be fatal if swallowed and enters airways.
	H315	Causes skin irritation.
	H332	Harmful if inhaled.
	H351	Suspected of causing cancer.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H411	Toxic to aquatic life with long lasting effects.
Precautionary statements (P):	P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
	P261	Avoid breathing mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	P331	Do NOT induce vomiting
	P501	Dispose of contents/container to specify in accordance with national regulations.

### 2.3. Other hazards

Product	<b>FUEL OIL EXTRA LIGHT</b>	Date:	2017/5/29
		Edition:	10

No data.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Substance:</b>	<b>x</b>		<b>Mixture:</b>		
<b>- Components contributing to product hazardousness:</b>					
Substance name	Substance identification			[%]	Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)
	CAS no.	EC no.	Registration no. (REACH)		
Fuels, diesel	68334-30-5	269-822-7	01-2119484664-27-0114	≤100	Flam. Liquid 3: H226 Asp. Tox. 1: H304 Skin Irrit. 2: H315 Acute Tox 4: H332 Carc.2: H351 STOT Rep.Exp.2: H373 Aquatic Chronic 2: H411

### 4. FIRST AID MEASURES

#### - General information:

#### - First aid procedures

- after inhalation: Remove the person from dangerous area to fresh air.  
In case of headache, dizziness, nausea and permanent complaints immediately seek medical attention.  
In case of fainting transport in lateral position to hospital, paying attention to the free passing of the air thorough the respiratory tract.  
In case of difficulty in breathing or respiratory arrest, open airways, initiate resuscitation (heart massage and artificial respiration) and immediately seek medical attention.
- after skin contact: Remove soaked clothes and shoes and flush the sites of contact thoroughly with water and soap for at least 15 to 20 minutes. In case redness occurs seek medical advice.
- after eye contact: Remove contact lenses and flush with running water for at least 15 minutes. In case of irritation, blurred vision and swelling immediately seek medical attention.
- after ingestion: Do NOT induce vomiting! Do not give anything by mouth. Always assume aspiration into the lungs has occurred. If vomiting occurs, keep the head below the level of hips in order to prevent penetration into the lungs. Immediately seek medical attention.
- Note to person administering first aid/physician: Risk of pulmonary oedema due to aspiration into the lungs. Administering oxygen only by trained medical personnel.

Product	<b>FUEL OIL EXTRA LIGHT</b>	Date:	2017/5/29
		Edition:	10

## 5. FIRE FIGHTING MEASURES

### - Extinguishing media:

- SUITABLE: Air foam, powder, CO<sub>2</sub>, halons, water mist.
- NOT SUITABLE: Water jet.

**- Firefighting measures for special hazards:** Eliminate all sources of ignition; call the fire brigade and the police. Pay special attention to risk of explosive vapour-air mixture formation at temperatures above the flash point.

**- Special firefighting measures:** Use of water mist and water spray for cooling the surfaces exposed to heat and for protection of persons. Only persons trained in fire-fighting may use the water spray (sprayed water).

**- Special fire fighter equipment:** Wear protective clothing for firefighters (intervention suit) in accordance with HRN EN 469 and a self-contained open-circuit compressed air breathing apparatus in accordance with HRN EN 137.

**- Special hazards of exposure:** Vapours are heavier than air and may settle to ground level and in dents; they may spread away from the site of accident and cause explosion and fire.

**- Other information:** No data available.

## 6. ACCIDENTAL RELEASE MEASURES

**- Personal precautions:** Ventilate thoroughly the premises at risk. Display a visible sign prohibiting entrance, use of open flame and sparking devices. Do not smoke. Stand upwind from the spill site. Use personal protection equipment listed in Section 8.

**- Environmental precautions:** Mark out the contaminated area with signs and prevent leaks and spills into watercourses, channels, drainage systems and soil by digging a protective ditch, setting up partitions made of bags of dry sand, soil or clay. Ensure good ventilation. In case of larger spills notify the Emergency Service at the number 112.

Product

**FUEL OIL EXTRA LIGHT**

Date: 2017/5/29

Edition: 10

**- Methods for cleaning-up and recovery:**

Pump the product from the damaged tank into an empty tank - container with the pump designed for use in a potentially explosive atmosphere. Absorb the remainders with absorbents (sawdust, sand, mineral adsorbents or other inert materials). Store the waste material and contaminated surface layer of soil that was removed in tightly closed containers in well-ventilated premises until disposal. Hand over for disposal to legal entities for hazardous waste disposal, authorized by the Ministry in charge of environmental protection.

**- Additional warnings:**

In case of traffic accident, properly ground the tank truck, mark the accident area and call the responsible person and the expert service in charge of taking care of the consequences of the accident.

## 7. HANDLING AND STORAGE

**- Handling:**

**- safety precautions:**

Eliminate all possible sources of ignition. Decant only in areas properly designed for the purpose according to regulations. Use functioning equipment and devices and follow technical safety measures in accordance with the training received. Take special care of connection points to prevent possible leaks.

Follow occupational safety and fire safety measures.

**- safe handling advice:**

Do not smoke, eat or drink in a room where this product is handled. Avoid inhalation and contact with skin and eyes. Use personal protective equipment listed in Section 8.

**- Storage:** technical measures and storage conditions:

**- SUITABLE:**

Properly built and equipped containers.

**- TO BE AVOIDED:**

Avoid storing with other chemicals, especially flammable ones (oxidants, acids). Do not use sparking tools and equipment in storage area.

**- Packaging materials:**

**- RECOMMENDED:**

Original as made by the tank/container manufacturer with valid certification.

**- NOT SUITABLE:**

Any other.

**- Special use:** No data available.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Exposure limit values

Hazardous substance	Exposure limit values (Croatia)		Biological limit values
	ppm	mg/m <sup>3</sup>	

Product	<b>FUEL OIL EXTRA LIGHT</b>	Date:	2017/5/29
		Edition:	10

Fuels, diesel	100	-	-
---------------	-----	---	---

- **Monitoring procedures:** No data available.

## 8.2. Exposure controls

- **Summary of risk management measures:** See Section 7.

### 8.2.1. Occupational exposure controls

- **Description of operating procedure and technological control:**

Make sure work areas are well-ventilated. Provide a decontamination sprayer for the eyes and face. Adopt personal hygiene measures: wash the hands after contact with the fuel, especially before eating, drinking and/or smoking. Regularly maintain and wash the clothing and equipment after use to remove dirt. Properly dispose of the contaminated clothing and equipment. Maintain cleanliness in accordance with good practice. Educate the employees on the hazards and control measures. Test and maintain the equipment used when handling the fuel: for example, personal protective equipment, ventilation system. Do not swallow. If swallowed, seek medical attention.

- **Personal protective equipment:** Personal protective equipment shall comply with national regulations and international standards.

- respiratory tract protection: If the concentration is higher than permitted, use a protective half mask or full face mask (HRN EN 136/AC:2006) with a combined filter for organic gases/vapours (filter type A-P, boiling point > 65 °C), a threaded connection complying with the HRN EN 14387 and HRN EN 143-1 standards (boiling point > 65 °C). During the fire, use a self-sustained open-circuit compressed-air breathing apparatus (HRN EN 137).
- hand protection: Personal hand hygiene is the most important element. The gloves shall only be worn on clean hands. After using the gloves, the hands shall be washed and dried. The contaminated gloves shall not be used. For continuous use, wear protective gloves made of stable and impervious material such as nitrile rubber or Viton (HRN EN 374-3, breakthrough time > 240 minutes).
- eye protection: Protective goggles or a visor at lower concentrations (HRN EN 166), protective mask at higher concentrations.
- skin and body protection: Use chemical resistant gloves, clothing and apron (where there is a risk of splashing).
- **Special hygienic and safety precautions:** Maintain the prescribed hygiene standards for working with hazardous substances. Remove contaminated clothing and footwear. Inspect the equipment and devices regularly and maintain with running water.  
Do not smoke, eat, and drink when handling the product. Wash hands before breaks and at the end of work.

### 8.2.2. Environmental exposure controls

- **Summary of risk management measures:** No data available.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. General information:

- state: liquid

Product	<b>FUEL OIL EXTRA LIGHT</b>	Date:	2017/5/29
		Edition:	10

- colour: red
- odour: very weak, characteristic after hydrocarbons
- Odour threshold: No data available.

**9.2. Important health, safety and environmental information:**

- pH value (indicate conc. and temp.): No data available.
- boiling point/boiling range: °C 180 - 370
- flash point: °C >55
- flammability (solid, gas): No data available.
- explosive properties: vol. % 0.6 – 6.5 (from literature)
- oxidizing properties: No data available.
- vapour pressure at 40 °C: kPa No data available.
- density at 15 °C: kg/m<sup>3</sup> ≤ 860
- relative density No data available
- solubility (indicate solvent): g/L No data available.
- Solubility in water: g/L negligible
- partition coefficient n-octanol / water logPow 3.9-6.0
- viscosity (kinematic) at 40 °C: mm<sup>2</sup>/s 2.5 – 6.0
- vapour density at 15°C: kg/m<sup>3</sup> No data available.
- volatility: No data available.

**9.3. Other data:**

- melting point/melting range: °C No data available.
- disintegration temperature: °C No data available.
- auto ignition temperature: °C No data available.
- conductivity: pS/m No data available.

**10. STABILITY AND REACTIVITY**

- **Reactivity:** Stable under recommended handling and storage conditions.
- **Chemical stability:** Stable under recommended handling and storage conditions.
- **Possibility of hazardous reactions:** Strong oxidants.
- **Conditions to avoid:** Increased temperature due to fire and explosion risk.
- **Materials to avoid:** Strong oxidants.
- **Hazardous decomposition products:** Thermal decomposition produces toxic gases: carbon oxides, sulphur and nitrogen oxides.

**11. TOXICOLOGICAL INFORMATION**

- **Acute toxicity**

Product	FUEL OIL EXTRA LIGHT	Date:	2017/5/29
		Edition:	10
<hr/>			
- oral (LD <sub>50</sub> ):	>9 ml/kg <small>body mass</small> (approximately 7600 mg/kg <small>body mass</small> , rat).		
- inhalation (LC <sub>50</sub> ):	≥4,1 mg/l (rat).		
- dermal (LD <sub>50</sub> ):	>5 ml/kg <small>body mass</small> (rabbit).		
<b>- Irritation/Corrosion</b>			
- skin:	Redness, dermatitis (H 315).		
- eyes:	Irritating effect; may cause redness.		
- respiratory tract:	May cause lung damage if ingested.		
<b>- Sensitisation</b>			
- skin:	Sensitive people may experience redness and dermatitis.		
- respiratory tract:	No data available.		
<b>- Aspiration hazard:</b>	May be fatal if swallowed and enters airways. (H304).		
<b>- Other classic effects: (e.g. unconsciousness, particularly toxic metabolites, etc.):</b>	Long-term inhalation of vaporous causes a sense of intoxication, headache, urge to vomiting, fainting.		
<b>- Permanent effect due to acute or chronic exposure:</b>	Long-term inhalation of vaporous causes a sense of intoxication, headache, urge to vomiting, fainting.		
<b>- Special effects:</b>			
- mutagenicity:	No data available.		
- carcinogenicity:	Suspected of causing cancer (H351).		
- fertility decrease:	No data available.		
- harmful effect on unborn child:	No data available.		
- toxicity to reproduction:	No data available.		
- other (e.g. endocrine disruptors):	No data available.		
- STOT (SE):	No data available.		
- STOT (RE):	May cause damage to organs through prolonged or repeated exposure. (H373)		
<b>- Prohibitions and restrictions:</b>	No data available.		
<b>- Other:</b>	No data available.		

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

- to aquatic organisms: EL<sub>50</sub>= 56 - 94 mg/L (96h, *Cyprinodon variegatus variegatus*)  
EL<sub>50</sub>= 3,5 – 4,4 ppm (24-96h, *Palaemonetes pugio*)  
LL<sub>50</sub>= 2 mg/l (*Daphnia magna*)
- to ground organisms: No data available.
- to plants and land animals: No data available.

### 12.2. Persistence and degradability



Product	FUEL OIL EXTRA LIGHT	Date:	2017/5/29
		Edition:	10
- biotic degradation:	Not readily biodegradable.		
- other degradation processes:	Some components evaporate and degrade when exposed to light.		
- degradation in wastewater:	No data available.		
12.3. Bioaccumulative potential			
- bio-concentration factor (BCF):	log K <sub>ow</sub> above 4,0		
12.4. Mobility in soil		Method:	No data available.
- known or predicted distribution to environmental compartments: No data available.			
- surface tension:	No data available.		
- absorption/desorption:	No data available.		
- other physical and chemical properties:	See Section 9.		
12.5. Results of PBT and vPvB assessment			
- data from chemical safety report:	No data available.		
12.6 Other adverse effects:		No data available.	
13. DISPOSAL CONSIDERATIONS			
- Waste codes:	13 07 01*		
- Waste treatment methods:	Waste shall be handed over to the person authorised for waste collection, disposal or recovery. If possible, the waste shall be recovered. Thermal treatment of contaminated residues is provided for.		
- Waste from residues:	There is no classic waste from this product except in case of unintentional release. For such cases see Section 6.		
- Contaminated packaging:	Not applicable.		
- Relevant provisions:	Act on Sustainable Waste Management, Regulation on waste catalogue, Ordinance on waste management.		
14. TRANSPORT INFORMATION			
- UN proper shipping name:	Gas oil or diesel fuel or fuel oil light		
- UN number:	1202		
- Transport hazard class(es)			
ADR/RID/ADN/ICAO/IATA:	3		
IMDG:	3		
- Packing group			
ADR/RID/ADN/IMDG/ICAO/IATA:	III		
- Environmental hazards			
ADR, RID, ADN, ICAO/IATA:	Toxic to aquatic life with long lasting effects		
IMDG:	maritime pollutant		

Product	<b>FUEL OIL EXTRA LIGHT</b>	Date:	2017/5/29
		Edition:	10

**- Special precautions for user:** In case of traffic accident, properly ground the tank truck, mark the accident area and call the responsible person and the expert service in charge of taking care of the consequences of the accident.

<b>ADR</b> Transport category: 3 Vehicle for tank carriage: FL (flash point not greater than 61 °C) AT (flash point between 61°C and 100 °C max) Tank code: LGBF (flash point not greater than 61 °C) LGBV (flash point between 61°C and 100 °C max) Tunnel restriction code: (D/E) Label: 3 Classification code: F1 Hazard identification: 30 Special provisions: 363, 640 K-L-M, 664, S2	<b>RID</b> Transport category: 3 Tank code: LGBF (flash point not greater than 61 °C) LGBV (flash point between 61°C and 100 °C max) Label: 3 Classification code: F1 Hazard identification: 30 Special provisions: 640 K-L-M, W12
<b>ADN</b> Label: 3 Additional requirements/Remarks: *see 3.2.3.3 ADN Dangers: 3+(N1, N2, N3, CMR, F, S) Equipment required: PP Classification code: F1 Carriage permitted: / Type of tank vessel: N/2 Anti-explosion protection required: no Maximum degree of filling (%): 97	<b>IMDG</b> Subsidiary risk: maritime pollutant Group of the cargo: category A Special provisions: 363 EmS: F-E, S-E Segregation group: category A
<b>ICAO</b> Label: 3 Cargo IMP code: RFL Passenger and cargo aircraft: YES Cargo aircraft: YES ERG code: 3L	

**Transport in liquid condition according to MARPOL Convention 73/78, Annex II and IBC Codex**

Trade name: -

Pollution category (according to MARPOL, Annex II): -

Vessel type (according to IBC Code): -

Special and operative requirements (according to IBC Code): -

**15. REGULATORY INFORMATION**

Product	<b>FUEL OIL EXTRA LIGHT</b>				Date:	2017/5/29	
					Edition:	10	
- <b>Applicable EU regulations:</b>	EU Regulation No. 1906/2007 and No. 1272/2008 of the European Parliament and the Council; Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH);						
- <b>Applicable national regulations:</b>	Chemicals Act; Regulations on Hazardous Substance Exposure Limit Values during Work and Biological Limit Values; Act on Sustainable Waste Management, Regulation on waste catalogue, Ordinance on waste management.						
- <b>Chemical Safety Assessment carried out (CSA):</b>	YES	X		NO			
- <b>Authorization information:</b>	-						
- <b>Restriction information:</b>	-						

## 16. OTHER INFORMATION

### Revision indicators

**Section:**      **Subject of change:**

Completely new edition of SDS "Fuel Oil Extra Light", with changes in all sections.

### Full text of H- phrases, EUH- and P-phrases:

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P501	Dispose of contents/container to specify in accordance with national regulations.

### Abbreviations and acronyms:

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
CAS number	Chemical Abstract Service number

Product	<b>FUEL OIL EXTRA LIGHT</b>	Date:	2017/5/29
		Edition:	10

CLP	Classification, Labelling and Packaging of substances and mixtures
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
EC number	European Community number for identification of chemical substances commercially available in the EU
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code transport
LC50	Lethal concentration for 50% of tested organisms
LD50	Lethal concentration for 50% of tested organisms (medium lethal concentration)
OIN	Oil industry notes
PBT	Persistent, bioaccumulative and toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT (SE)	Specific Target Organ Toxicity (Single Exposure)
STOT (RE)	Specific Target Organ Toxicity (Repeated Exposure)
UVCB	Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials
vPvB	Very persistent and very bioaccumulative

**Statement:**

This SDS is in compliance with the EU Regulation No. 1907/2006 and No. 1272/2008 of the European Parliament and the Council. It contains important user health and safety and environmental protection information. The information provided herein is not a substitute for any specification of quality and should not be deemed as a guarantee of the adequacy and applicability of this product for any purpose whatsoever. All information provided herein is based on our current knowledge and compliant with applicable legal regulations. The user is responsible for adherence to relevant legal regulations.

**Data source:**

1. [www.hzt.hr](http://www.hzt.hr)
2. <http://echa.europa.eu/hr>
3. Hazard classification and labelling of petroleum substances in the EEA, Concawe 2015.

**APPENDIX: EXPOSURE SCENARIOS ACCORDING TO CHEMICAL SAFETY REPORT**