

Product	GAS OIL LIGHT	Date:	2011/12/20
		Edition:	2

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

1.1. Product identifier

- Trade name: GAS OIL LIGHT
- 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: 1000440

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

- Relevant identified uses: Component for blending or feedstock for HDS gas oils.
- 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
pp 555, 10002 Zagreb, HRVATSKA

Phone: 00-385-1-6450-842 / 00-385-1-6451-075 (24 h)

Fax: 00-385-1-6452-050

e-mail: sds@ina.hr

- Responsible person: **Organisational Design and Process Management Sector**
Hrvoje Raukar, B.Sc. Tel. 00-385-1-6450-602
Tatjana Benko, B. Sc.

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 00-385-1-3650-082
00-385-1-3650-083
- Medical Information Telephone Number: **00-385-1-23-48-342**

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

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Skin Irrit. 2: H315
 Acute Tox 4: H332
 Carc.2: H351
 STOT Rep.Exp.2: H373
 Aquatic Chronic 2: H411

Full text of H-phrases: see section 16.

2.1.2. Classification according to Directive 67/548/EEC or 1999/45/EC:

Xn; R20-R65
 Xi; R38
 Carc. Cat. 3; R40
 N; R51/53

Full text of R-phrases: see section 16.

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.

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- P331 Do NOT induce vomiting
- P501 Dispose of contents/container to specify in accordance with national regulations.

* For the purpose of CLP Regulation gas oils, diesel and light heating oils having a flash point between ≥ 55 °C and ≤ 75 °C may be regarded as Category 3.

2.3. Other hazards

The product does not meet the criteria for PBT or vPvB classification in Annex XIII of REACH.

Note H

Note N

3. COMPOSITION / INFORMATION ON INGREDIENTS

- Substance:		X	Mixture:			
- Components contributing to product hazardousness:						
Substance name	Substance identification			[%]	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)
	CAS no.	EC no.	Registration no. (REACH)			
Fuels, diesel fuel, gas oil - unspecified	68334-30-5	269-822-7	01-2119484664-27-0114	≤ 100	Xn; R20-R65 Xi; R38 Carc. Cat. 3; R40 N; R51-53	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 to fresh air and place in a half-lying position. In case of fainting transport in lateral position to hospital, paying attention to the free passing of the air thorough the respiratory tract. If breathing has stopped or is difficult, give artificial respiration and/or heart massage and immediately seek medical assistance.
- 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: Hold eyelids apart with clean hands and flush the eyes with running water for at least 15 to 20 minutes. In case of intense redness, burning sensation or tearing, seek ophthalmologist's advice.
- after ingestion: Do NOT induce vomiting! May cause lung damage! Place the afflicted person in a half-lying position and transport to hospital.

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- **Note to person administering first aid/ physician:** No special recommendations.

5. FIRE FIGHTING MEASURES

- Extinguishing media:

- SUITABLE: Air foam, powder, CO₂, halons, water mist.
- NOT SUITABLE: Water jet.

- Fire fighting 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 fire fighting 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: Self-contained open-circuit compressed air breathing apparatus (HRN EN 137), protective suit against heat radiation.

- 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: Thermal decomposition produces toxic gases: carbon oxides, sulphur and nitrogen oxides.

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.

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- 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, authorised 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) ppm	Biological limit values
Fuels, diesel	100	-

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- Monitoring procedures

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.

- Personal protective equipment

- respiratory tract protection: Wear full face protective mask (HRN EN 136/AC). In the event of fire, wear self-contained, open-circuit compressed air breathing apparatus (HRN EN 137).
- hand protection: Wear protective gloves made of stable and impervious material such as nitrile rubber or viton (HRN EN 374-1; HRN EN 374-2; HRN EN 374-3).
- eye protection: Protective goggles or a visor at lower concentrations (HRN EN 166), protective mask at higher concentrations.
- skin and body protection: Protective clothing and footwear, nitrile rubber apron, chemical-resistant overalls.
- **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
- colour: yellowish
- odour: very weak

9.2. Important health, safety and environmental information:

- pH value (indicate conc. and temp.): No data available.
- boiling point/boiling range: °C 160 – 390
- flash point: °C > 55
- flammability (solid, gas): need to be heated to ignite
- explosive properties: vol. % 0,6 – 6,5 (from literature)
- oxidizing properties: No data available.
- vapour pressure: Pa No data available.
- density at 15 °C: kg/m³ 820,0 – 860,0
- solubility (indicate solvent): g/L No data available.

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- Solubility in water: g/L No data available.
- partition coefficient n-octanol / water logPow > 3,3 (from literature)
- viscosity (kinematic) at 100 °C: mm²/s 2,00 – 4,50
- vapour density at 15°C: kg/m³ 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 250-460 (from literature)
- conductivity: pS/m No data available.
- miscibility: No data available.

10. STABILITY AND REACTIVITY

- **Stability:** Stable under recommended conditions of storage and use.
- **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.
- **Special hazards:**

11. TOXICOLOGICAL INFORMATION

- **Acute toxicity**
 - oral (LD₅₀): > 2000 mg/kg (rat)
 - inhalation (LC₅₀): 4,6 mg/L (4h; rat)
 - dermal (LD₅₀): > 2000 mg/kg (rabbit)
- **Chronic exposure**
 - oral (LD₅₀): May be fatal if swallowed and enters airways
 - inhalation (LC₅₀): Long-term exposure to vapours may cause feeling of intoxication, headache, urge to vomit, fainting.
 - dermal (LD₅₀): Frequent exposure may cause skin dryness and cracking.
- **Irritation/Corrosion**
 - skin: Redness, dermatitis.
 - eyes: Irritating effect; may cause redness.
 - respiratory tract: Prolonged or repeated exposure may cause irritation.
- **Sensitisation**
 - skin: Sensitive people may experience redness and dermatitis.
 - respiratory tract: No data available.

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<p>- Other classic effects: (e.g. unconsciousness, particularly toxic metabolites, etc.):</p> <p>- Permanent effect due to acute or chronic exposure:</p> <p>- Special effects</p> <p>- mutagenicity:</p> <p>- carcinogenicity:</p> <p>- fertility decrease:</p> <p>- harmful effect on unborn child:</p> <p>- toxicity to reproduction:</p> <p>- other (e.g. endocrine disruptors):</p> <p>- Toxicokinetics:</p> <p>- Prohibitions and restrictions:</p> <p>- Other:</p>	<p>Long-term exposure to vapours may cause feeling of intoxication, headache, urge to vomit, fainting.</p> <p>May cause damage to organs through prolonged or repeated exposure. Frequent exposure may cause skin dryness and cracking.</p> <p>No data available.</p> <p>Limited evidence of carcinogenic effects. (Car.cat.3 - according DSD). (Carcinogenicity Category 2. - according CLP)</p> <p>No data available.</p> <p>No data available.</p> <p>No data available.</p> <p>No data available.</p> <p>No data available.</p> <p>No data available.</p> <p>No data available.</p> <p>No data available.</p>
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12. ECOLOGICAL INFORMATION

12.1. Eco-toxicity

- | | |
|-------------------------------|--------------------|
| - to aquatic organisms: | No data available. |
| - to ground organisms: | No data available. |
| - to plants and land animals: | No data available. |

12.2. Mobility

Method:

- | | |
|--|--------------------|
| - 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. |

12.3. Persistence/degradability

- | | |
|--------------------------------|--|
| - biotic degradation: | No data available. |
| - other degradation processes: | Some components evaporate and degrade when exposed to light. |
| - degradation in wastewater: | Floats on the surface and creates an oil slick that spreads quickly regardless of the wind and currents and can have an adverse effect to water organisms due to lack of oxygen. |

12.4. Bio-accumulation

- | | |
|-----------------------------------|--------------------|
| - bio-concentration factor (BCF): | No data available. |
|-----------------------------------|--------------------|

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12.5. Results of PBT assessment

- data from chemical safety report: No data available.

Other data: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

- Preferred disposal considerations:

- Waste from residues: There is no classic waste from this product except in case of unintentional release. For such cases see Section 6. It is foreseen that contaminated residues be thermally treated; code 13 07 01.

- Contaminated packaging: Not applicable.

- Local applicable regulations: Waste Act, Decree on Waste Categories, Types, and Classification and Hazardous Waste List, Regulations on Waste Management Conditions, Decree on Conditions for Hazardous Waste Management

Obligatory compliance with the EU, national, and/or local laws and regulations. User shall be responsible for knowledge of all relevant national and local regulations.

14. TRANSPORT INFORMATION

- Transport classification signs:

- Name of hazardous chemical according to international contracts on transport of hazardous substances:

Gas oil or diesel fuel or fuel or heating oil light

Road/Rail transport (ADR / RID):

UN number: 1202 class: 3 risk label: 3 packaging group: III

Inland Waterway (ADNR):

UN number: 1202 class: 3 risk label: 3 packaging group: III

Sea transport (IMDG):

UN number: 1202 class: 3 risk label: 3 packaging group: III

Air transport (ICAO/IATA):

UN number: 1202 class: 3 risk label: 3 packaging group: III

- Additional regulations: Hazardous Materials Transport Act, European Agreement on International Road Transport of Hazardous Materials (ADR – Appendixes A and B), Regulations on the Manner of Hazardous Materials Transport in Road Transport, Regulations on Handling Hazardous Materials, Conditions and Manner of Transport in Sea Transport, Loading and Unloading of Hazardous Materials, Bulk and Other Cargo in Harbours, and the Manner of Preventing Oil Spills in Harbours, Regulations on Hazardous Chemicals Classification, Marking, Labelling and Packaging.

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- Special precautions and transport conditions: No data.

15. REGULATORY INFORMATION

- Applicable EU regulations: EU Regulation No. 1906/2007 and No. 1272/2008 of the European Parliament and the Council;
Commission Regulation (EU) No 453/2010 of 20 May 2010 (amending Regulation (EC) No 1907/2006 (REACH);
EU Regulation No. 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer;
EU Regulation No 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals;
EU Regulation No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants;
EU Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives;

- Applicable national regulations: Chemicals Act; Regulations on Hazardous Chemicals Classification, Marking, Labelling and Packaging;
Regulations on Hazardous Substance Exposure Limit Values during Work and Biological Limit Values;
Regulations on Filling in the Material Safety Data Sheet

- Chemical Safety Assessment carried out (CSA):	YES	x	NO		
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- Authorization information: -

- Restriction information: -

16. OTHER INFORMATION

Revision indicators

Section: Subject of change:

Section 1. EC index no.; Registration number; Relevant identified uses of the substance or mixture and uses advised against;

Section 2. Classification and labelling according to Regulation (EC) No 1272/2008 (CLP/GHS); Classification and labelling according to Directive 67/548/EEC or 1999/45/EC;

Section 3. Classification according to Regulation (EC) No 1272/2008 (CLP/GHS); Registration number

Section 15. Applicable EU regulations; Authorization information; Restriction information

Section 16. Full text of R-, H- phrases, EUH- and P-phrases; Abbreviations and acronyms

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

R20	Harmful by inhalation.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R65	Harmful: may cause lung damage if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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:

CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
PBT	Persistent, bioaccumulative and toxic
vPvB	Very persistent and very bioaccumulative
STOT	Specific Target Organ Toxicity
STOT (RE)	Specific Target Organ Toxicity (Repeated Exposure)
STOT (SE)	Specific Target Organ Toxicity (Single Exposure)
UVCB	Unknown or Variable composition Complex reaction product or Biological origin
LD₅₀	Lethal Dose, 50%
LC₅₀	Lethal Concentration, 50%

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Statement:

This SDS is in compliance with the EU Regulation No. 1906/2007 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. <http://ecb.jrc.ec.europa.eu/esis/>
2. Concawe Report 11/10, *Hazard classification and labelling of petroleum substances in the European Economic Area – 2010*
3. <http://echa.europa.eu/>
4. <http://www.hzt.hr/>

APPENDIX: EXPOSURE SCENARIOS ACCORDING TO CHEMICAL SAFETY REPORT