

Product	GAS CONDENSATE	Date:	5/10/2015
		Edition:	7

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

1.1. Product identifier

- Trade name: GAS CONDENSATE
- Chemical name: GAS CONDENSATE
- EC index no.: 649-346-00-X
- EC no.: 265-047-3
- CAS no.: 64741-47-5
- Registration No.: This substance is not subject to registration in accordance with Annex V. of Regulation (EC) No. 1907/2006 (REACH).
- Product code: 1000034

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

- Relevant identified uses: Energy source.
- 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 Holjevcica 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: **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 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. Liq. 2; H225

Asp.tox. 1; H304

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Skin Irrit 2; H315
 Eye Irrit. 2; H319
 Carc.1B; H350
 Muta.1B; H340
 STOT RE 1; H372
 Aquatic.Chronic.2; H411

Full text of H-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



GHS07



GHS08



GHS09

Signal word: **Danger**

Hazard statements (H):	H225	Highly flammable liquid and vapour.	
	H350	May cause cancer.	
	H340	May cause genetic defects.	
	H304	May be fatal if swallowed and enters airways.	
	H315	Causes skin irritation.	
	H319	Causes serious eye irritation.	
	H372	Causes damage to organs through prolonged or repeated exposure.	
	H411	Toxic to aquatic life with long lasting effects.	
	Precautionary statements (P):	P201	Obtain special instructions before use.
		P202	Do not handle until all safety precautions have been read and understood.
		P281	Use personal protective equipment as required.
		P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
		P308+P313	IF exposed or concerned: Get medical advice/attention.
		P331	Do NOT induce vomiting.
P405		Store locked up.	
P501	Dispose of contents/container to accordance with legal regulation.		

2.3. Other hazards

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

Note OIN 4

Classification of substance according to CLP Regulation, as flammable liquid category 1 should not be applied if it is possible to establish that the flash point and initial boiling point comply with the CLP classification criteria as flammable liquid category 2 or 3.

3. COMPOSITION / INFORMATION ON INGREDIENTS

-Substance:	X				Mixture:	
- Components contributing to product hazardousness:						
Substance name	Substance identification			[%]	Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)	
	CAS no.	EC no.	Registration no. (REACH)			
Gas condensate	64741-47-5	265-047-3	No data available	>85	Carc. 1B; H350 Muta. 1B; H340 Asp.tox.1; H304	
n-Hexane*	110-54-3	203-777-6	No data available	<5	Flam. Liq. 2; H225 Repr. 2; H361f Asp. tox. 1; H304 STOT RE 2; H373 Skin Irrit 2; H315 STOT SE 3; H336 Aquatic.Chronic.2; H411	
Benzene*	71-43-2	200-753-7	No data available	<3	Flam. Liq. 2; H225 Carc. 1A; H350 Muta. 1B; H340 STOT RE 1; H372 Asp. tox. 1; H304 Eye Irrit. 2; H319 Skin Irrit 2; H315	
Toluene*	108-88-3	203-625-9	No data available	<5	Flam. Liq. 2; H225 Repr. 2; H361d Asp. tox.1; H304 STOT RE 2; H373 Skin Irrit 2; H315 STOT SE 3 H336	
Ethylbenzene*	100-41-4	202-849-4	No data available	<1	Flam. Liq. 2; H225 Ac. tox. 4; H332	
o-Xylene*	95-47-6	202-422-2	No data available	<1,5	Flam.Liq.3; H226 Ac. tox.4; H332 Ac. tox.4; H312 Skin Irrit 2; H315	
m-xylene* p-xylene*	108-38-3 106-42-3	203-576-3 203-396-5	No data available	<4	Flam.Liq.3; H226 Ac. tox.4; H332 Ac. tox.4; H312 Skin Irrit 2; H315	

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*These components were not added on purpose.

4. FIRST AID MEASURES

- General information:

- First aid procedures

- after inhalation: Carry the afflicted person to fresh air. If he/she is not breathing, apply CPR. If dizziness, headache or nausea occur, seek medical assistance, and in case of fainting transport in lateral position to hospital, paying attention to the free passing of the air through the respiratory tract.
- after skin contact: Remove soaked clothes and shoes. Flush the contact points thoroughly with water and mild soap for at least 15 minutes. If symptoms persist, continue decontamination and seek medical assistance.
- after eye contact: Hold eyelids apart with clean fingers and gently flush the eyes with running water for at least 15 to 20 minutes. If the symptoms persist, continue decontamination. Immediately seek ophthalmologist's advice.
- after ingestion: Do NOT induce vomiting! In case of any symptoms seek medical assistance.
- **Note to person administering first aid/ physician:** Danger of pulmonary edema during aspiration in the lungs.

5. FIRE FIGHTING MEASURES

- Extinguishing media:

- SUITABLE: Foams, powder, CO₂ (for closed areas).
- NOT SUITABLE: Water jet.

- **Fire fighting measures for special hazards:** Eliminate all sources of ignition and immediately call the fire brigade and the police.

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

- **Special fire fighter equipment:** Self-contained open-circuit compressed-air breathing apparatus (HRN EN 137), fire fighter clothing (HRN EN 469).

- **Special hazards of exposure:** None.

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

6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions:** Rooms at risk shall be thoroughly vented. Display visible sign prohibiting entrance, use of open flame and sparking devices. Do not smoke. Stand upwind in respect of the release point. Use personal protective equipment from item 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. Set up floating booms to enclose water spills. Reloading into undamaged tanks to be performed by taking all safety measures against static electricity.
- Methods for cleaning-up and recovery:** Pump the product from the damaged tank into an empty tank - container with the pump designed for safe use. Absorb the remainders with absorbents (sawdust, sand, mineral adsorbents and other inert materials). Store the waste material and contaminated surface layer of soil that was removed in tightly closed containers and store 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 spills in the waters, notify the National Protection and Rescue Directorate at number 112.

7. HANDLING AND STORAGE

- Handling:**
 - safety precautions: Follow the measures of occupational safety and fire protection. Keep away from heat sources and eliminate all ignition sources. Ensure good ventilation of the area.
 - safe handling advice: Reloading to be performed in an open area with prescribed functioning equipment.
- Storage: technical measures and storage conditions:**
 - SUITABLE: Properly constructed and equipped tanks in accordance with regulations for flammable liquids.
 - TO BE AVOIDED: Everything else, especially storage near watercourses.
- Packaging materials:**
 - RECOMMENDED: As prescribed for the particular use.
 - NOT SUITABLE: All other.
- Special use:** No data available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure limit values

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Hazardous substance	Exposure limit values (Croatia) ppm	Biological limit values
n-Hexane	20	150 µg/L (in blood during exposure) 40 ppm (in extremely exhaled air, during exposure)
Benzene	1	0.12 ppm (in extremely exhaled air, around 16 h after work shift)
Ethylbenzene	100	2 ppm (in extremely exhaled air, around 16 h after work shift) 1.50 mg/L (in blood during exposure)
Toulene	50	20 ppm (in extremely exhaled air, during exposure) 1.0 mg/L (in blood at the end of work shift)
o, m,p-xylene	50	1.50 mg/L (in blood at the end of work shift – alcohol consumption before xylene exposure increases the finding)

- **Monitoring procedures:** Measuring oxygen concentrations in air, according to the regulations.

8.2. Exposure controls

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

8.2.1. Occupational exposure controls

- **Description of operating procedure and technological control:** Provide good ventilation / air outlet in the premises.

- Personal protective equipment

- respiratory tract protection: In case of accidents when vapour concentration exceeds the exposure limit values, wear a protective mask (HRN EN 136) or with filter "A" (HRN EN 14387), while when oxygen concentration drops below 17%, use the self-contained open-circuit compressed-air breathing apparatus (HRN EN 137).
- hand protection: Wear protective gloves made of stable and impermeable material. In case of full contact wear gloves made of nitrile rubber, 0.40 mm thick; in contact with drops wear gloves made of nitrile rubber, 0.11 mm thick. In case of longer exposure use gloves made of viton (HRN EN 374).
- eye protection: Protective goggles (HRN EN 166).
- skin and body protection: Protective clothing made from natural fabrics and appropriate footwear, rubber boots (HRN ISO 10335).
- **Special hygienic and safety precautions:** The workplace must be equipped with a shower. Eating, drinking and smoking are prohibited in the workplace. After each interruption of work, washing hands is obligatory.

8.2.2. Environmental exposure controls

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

9 PHYSICAL AND CHEMICAL PROPERTIES

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9.1. General information:

- state: Liquid
- colour: Light brown
- odour: Characteristic, similar to hydrocarbons

9.2. Important health, safety and environmental information:

- pH value (indicate conc. and temp.): Not applicable.
- boiling point/boiling range: °C 71.3 – 344.0
- flash point: °C < - 23
- flammability (solid, gas): Extreme
- explosive properties: vol. % 1.4 – 7.6 (literature data)
- oxidizing properties: Product does not have oxidizing properties.
- vapour pressure: kPa 50 - 60
- density at 15 °C: kg/m³ 751-794
- solubility (indicate solvent): g/L Soluble.
- Solubility in water: g/L Insoluble.
- partition coefficient n-octanol / water logPow No data available.
- viscosity (kinematic) at 20 °C: mm²/s 1.453
- vapour density at 15°C: kg/m³ No data available.
- volatility: No data available.

9.3. Other data:

- melting point/melting range: °C - 60
- disintegration temperature: °C No data available.
- auto ignition temperature: °C 238
- conductivity: pS/m 13770
- miscibility: No data available.
- pour point: °C -18

10. STABILITY AND REACTIVITY

- **Stability:** Stable at the prescribed conditions of use and storage. Does not polymerize.
- **Conditions to avoid:** Remove all ignition sources, heat and open flame.
- **Materials to avoid:** Strong oxidants.
- **Hazardous decomposition products:** None in standard operating conditions and in proper storage.
- **Special hazards:** No data available.

11. TOXICOLOGICAL INFORMATION

- **Acute toxicity**
- oral (LD₅₀): > 14 000 mg/kg (rat)

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- inhalation (LC ₅₀):	> 3750 mg/kg (rabbit)		
- dermal (LD ₅₀):	No data available.		
- Chronic exposure			
- oral (LD ₅₀):	No data available.		
- inhalation (LC ₅₀):	No data available.		
- dermal (LD ₅₀):	No data available.		
- Irritation/Corrosion			
- skin:	Causes skin irritation. Skin contact causes dryness and cracking.		
- eyes:	Causes eye irritation. Temporary irritation and redness possible in sensitive persons.		
- respiratory tract:	No data available.		
- Sensitisation			
- skin:	No data available.		
- respiratory tract:	No data available.		
- Other classic effects: (e.g. unconsciousness, particularly toxic metabolites, etc.):	Dizziness and drowsiness.		
- Permanent effect due to acute or chronic exposure:	May cause lung damage if swallowed.		
- Special effects			
- mutagenicity:	Muta. 1B		
- carcinogenicity:	Carc. 1B (gas condensate)		
- 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.		
- Toxicokinetics:	No data available.		
- Prohibitions and restrictions:	No data available.		
- Other:	Human exposure to benzene may cause heritable genetic damage (Muta. 1B). Evidence that benzene causes cancer in humans (Carc. 1A) exist.		

12. ECOLOGICAL INFORMATION

12.1. Eco-toxicity

- to aquatic organisms: No data available.
- to ground organisms: Data from experience indicates that there is danger for ground organisms.
- to plants and land animals: Data from experience indicates that there is danger for plants and animals.

12.2. Mobility

Method: No data available.

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-known or predicted distribution to environmental compartments: Insoluble in water.

- surface tension: No data available.
- absorption/desorption: No data available.
- other physical and chemical properties: No data available.

12.3. Persistence/degradability

- biotic degradation: No data available.
- other degradation processes: No data available.
- degradation in wastewater: No data available.

12.4. Bio-accumulation

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

12.5. Results of PBT assessment

- data from chemical safety report: No data available.

Other data: No data available.

13. DISPOSAL CONSIDERATIONS

- Preferred disposal considerations:

- **Waste from residues:** Product has no classic waste, except in case of accidental release. In that case see item 6.
Hand over residues referred to in item 6 to authorised person for disposal.
- **Contaminated packaging:** Not applicable.
- **Local applicable regulations:** Sustainable Waste Management Act; Decree on Categories, Ordinance on Waste Catalogue; Ordinance on waste management.

14. TRANSPORT INFORMATION

- Transport classification signs:

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

Gas condensate

Road/Rail transport (ADR / RID):

UN number: 1268 class: 3 risk label: 3 packaging group: II

Inland Waterway (ADNR):

UN number: 1268 class: 3 risk label: 3 packaging group: II

Sea transport (IMDG):

UN number: 1268 class: 3 risk label: 3 packaging group: II

Air transport (ICAO/IATA):

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- Section 2, 3, 11, 16. Classification data according to directive 67/548/EEC or 1999/45/EC removed.
- Section 3. Data on component concentration changed.
- Section 5. Data on special fire fighter equipment changed.
- Section 9. Data on physical – chemical properties changed.
- Section 11. Data on toxicity changed.
- Section 12. Data on mobility changed.
- Section 14. Data on UN number, class, risk label and packaging group changed.

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

- H350 May cause cancer.
- H340 May cause genetic defects.
- H304 May be fatal if swallowed and enters airways.
- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P281 Use personal protective equipment as required.
- P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P331 Do NOT induce vomiting.
- P405 Store locked up.
- P501 Dispose of contents/container to accordance with legal regulation.

Abbreviations and acronyms:

- CSA** Chemical Safety Assessment
- CSR** Chemical Safety Report
- PBT** Persistent, bioaccumulative and toxic
- vPvB** Very persistent and very bioaccumulative
- 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. **Concawe Report 10/14**, *Hazard classification and labelling of petroleum substances in the European Economic Area - 2014*
2. <http://echa.europa.eu/>
3. <http://www.hzt.hr>

APPENDIX: EXPOSURE SCENARIOS ACCORDING TO CHEMICAL SAFETY REPORT
