

Product	FCC GASOLINE – EXPORT	Date:	17.5.2017.
	FCC GASOLINE – HYDROTREATED	Edition:	5

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

1.1. Product identifier

- **Trade name:** FCC GASOLINE – EXPORT
FCC GASOLINE – HYDROTREATED
- **Chemical name:** Gasoline
- **Index no.:** 649-378-00-4
- **EC no.:** 289-220-8
- **CAS no.:** 86290-81-5
- **Registration No.:** 01-2119471335-39-0091
- **Product code:** 1000330
1000630

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.
- **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:** **SD & HSE Sector**
Mirela Mavrinac, B.Sc. Tel. 00-385-1-6450-803
Hrvoje Raukar, 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):

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Flam. Liq. 1; H224

Skin Irrit. 2; H315

Muta. 1B; H340

Carc. 1B; H350

Repr. 2; H361d

STOT SE 3; H336

Asp.Tox. 1; H304

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):	H224	Extremely flammable liquid and vapour.	
	H304	May be fatal if swallowed and enters airways.	
	H315	Causes skin irritation.	
	H336	May cause drowsiness or dizziness.	
	H340	May cause genetic defects.	
	H350	May cause cancer.	
	H361d	Suspected of damaging the unborn child.	
	H411	Toxic to aquatic life with long lasting effects.	
	Precautionary statements (P):	P201	Obtain special instructions before use.
		P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P273		Avoid release to the environment.	
P280		Wear protective gloves/protective clothing/eye protection/face protection.	
P301+ P310		IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P331		Do NOT induce vomiting.	
P403+ P233		Store in a well-ventilated place. Keep container tightly closed.	

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P501 Dispose of contents/container to accordance with national regulation.

2.3. Other hazards

Note P

Vapours form flammable mixtures with air and explosive. Vapours are heavier than air: they can accumulate in confined spaces or in depressions, are spread at the soil and can pose risks of fire and explosion at a distance. In some circumstances, the product can accumulate static electricity in significant amounts, with the risk of shocks that may cause fire or explosions. The product does not meet the criteria for PBT or vPvB classification in Annex XIII of REACH.

3. COMPOSITION / INFORMATION ON INGREDIENTS

-Substance:					Mixture:	
- Components contributing to product hazardoussness:						
Substance name	Substance identification			[%]	Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)	
	CAS no.	EC no.	Registration no. (REACH)			
Gasoline	86290-81-5	289-220-8	01-2119471335-39-0091	≤100	Muta. 1B; H340 Carc. 1B; H350 Asp.Tox. 1; H304	
Benzene*	71-43-2	200-753-7	-	≤1	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	-	> 3	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	
n-hexane*	110-54-3	203-777-6	-	< 3	Flam. Liq. 2 H225 Repr. 2; H361d Asp. Tox. 1; H304 STOT RE 2*H373 Skin Irrit. 2; H315 STOT SE 3; H336	

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4. FIRST AID MEASURES

- General information:

- First aid procedures

- after inhalation: Unesrećenog udaljiti iz onečišćenog prostora na svježi zrak.
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: Take off the contaminated clothes and footwear. Thoroughly rinse the afflicted skin surface with water and soap for 10 - 15 minutes. In case of redness, immediately seek medical advice.
- after eye contact: Remove contact lenses (if present) and flush the eyes with running water for at least 15 minutes. In case of irritation, blurred vision and swelling immediately seek medical attention.
- after ingestion: DO NOT invoke 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.

5. FIRE FIGHTING MEASURES

- Extinguishing media

- SUITABLE: Heavy air foam, dry powder, CO₂, water mist. When using dry powder and CO₂ (for initial fires, minor fires and indoor fires) attention is to be paid to the hazard of possible repeated flaring up of the fire after extinguishing.
- NOT SUITABLE: Water jet.

- **Firefighting measures for special hazards:** Remove all ignition sources and, if necessary, call firemen and the police. Special care should be taken of the fact that there is a permanent danger of creation of explosive mixture with the air at room temperature.

- **Special firefighting measures:** Use water mist and water spray for cooling the surfaces exposed to heat and for protection of people. Only those who are trained in fire protection may use water spray (dispersed water).

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- **Special fire fighter protective equipment:** Self-sustained open-circuit compressed-air breathing apparatus (HRN EN 137). Wear protective clothing for firefighters (intervention suit) in accordance with HRN EN 469.
- **Special hazards arising from the substance or mixture:** Pare su teže od zraka te se zadržavaju u blizini tla i na mjestima udubljenja.
- **Advice for firefighters:** No data available.
- **Additional information:** No data available.

6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions:** Rooms at risk must be thoroughly vented. Exhibit a sign of prohibited entry and work with open flame and sparking devices on a visible location. Measure the concentration of gasoline vapours in the air, in line with regulations. Always use personal protective equipment, and if the concentration exceeds 100 ppm use the mask for entire face (HRN EN 136) with filter "A" (HRN EN 14387). In concentrations exceeding 3000 ppm apply self-sustained open-circuit compressed-air breathing apparatus (HRN EN 137).
- **Environmental precautions:** Define the risk area and prevent discharging and spilling into watercourses, canals, drainage systems and soil by digging out a protective ditch, fencing it with bags filled with dry sand, earth or clay. Provide good ventilation of the area. In case of major leaks notify the Emergency Service by dialing 112.
- **Methods for cleaning-up and recovery:** Use safety-type pump for reloading from the damaged tank into an empty tank / tank truck / tank car. Remove remainder from the ground using adsorption agents (sawdust, mineral adsorbents, and other inert materials). Place the waste material and removed contaminated surface soil level into well-closed tanks to be stored in well-vented rooms until disposal to be done by legal entities for disposal of hazardous waste, authorized by the Ministry in charge of environmental protection.
In case of gasoline spill in working area, the fluid must be removed and the surface washed with soapy water and then rinsed with clean water.
- **Additional warnings:** Highly inflammable fluid and vapours! Stand upwind with respect to release point.

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7. HANDLING AND STORAGE

- Handling

- safety precautions: Keep away from heat sources and eliminate all ignition sources. Perform reloading i.e. loading/unloading only at the locations properly designed for the purpose, ensuring sufficient air ventilation/exhaustion. Use only fully operational equipment and devices. Do not use sparking tools.

Make sure that the floor in the work premises and storage area is impermeable and resistant to solvents. Floors in the areas at risk of explosive atmosphere in the static electricity conductor system should have transfer resistance of $<1 \text{ M}\Omega$.

Ground the devices and take safety precautions against static electricity: grounding, air ionization, use of antistatic material, maintaining air humidity above 65%, bypassing the static electricity through electric influence.

- safe handling advice: Smoking, eating, drinking or storing food is prohibited in the room where this product is handled. Keep personal clothes separate from work clothes and workplace. Wearing of prescribed work clothes, protective gloves and goggles is obligatory. Extremely dirty, soaked or torn clothes must be immediately changed. Strictly avoid contact with skin and eyes.

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

- SUITABLE: Store in well-sealed tanks, properly manufactured and equipped. Provide room/area ventilation and appropriate temperature. Take measures against the static electricity charge.

- TO BE AVOIDED: Storage in the same room/area with other chemicals, particularly those that may cause fire. Use of sparking tools or devices/equipment that may produce sparks in storage area.

- Packaging materials

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

- NOT SUITABLE: Any other.

- **Special use:**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure limit values

Hazardous substance (CAS No.)	Occupational exposure limit values/short term values (OEL/STEL)		Biological limit values
	ppm	mg/m ³	
gasolines	100/-	300/-	No data available.

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benzene	1/-	3,25/-	0,12 ppm (in extremely exhaled air – smoking increases the finding)
n-hexane (110-54-3)	20/-	72/-	150 µg/L (in blood during exposure) 40 ppm (in extremely exhaled air during exposure)
Toluene (108-88-3)	50/192	100/384	1,0 mg/L (in blood at the end of work shift) 20 ppm (in extremely exhaled air during exposure)

- Monitoring procedures:

8.2. Exposure controls

- Summary of risk management measures: Measuring the concentration of benzene vapours in the air, according to the regulations.

8.2.1. Occupational exposure controls

- Description of operating procedure and technological control:

Make sure work areas are well-ventilated. 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

- respiratory tract protection: Wear full face protective mask (HRN EN 136) with A filter (HRN EN 14387) at concentrations above 100 ppm.
Wear self-contained open circuit compressed air breathing apparatus (HRN EN 137) at concentrations above 3000 ppm.
- hand protection: Wear protective gloves made of stable and impervious material. During continuous contact wear gloves made of nitrile rubber, 0.40 thick; if contact is likely (drops) wear gloves made of nitrile rubber, 0.11 thick (HRN EN 374).
During shorter contact (4 h) wear gloves made of PVA (polyvinyl alcohol).
- eye protection: Protective goggles or guard (HRN EN 166) at lower concentrations, protective shields at higher concentrations.

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- 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 available data.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information:

- state: Liquid
- colour: Colourless
- odour: Characteristic for gasoline
- odour threshold: No available data.

9.2. Important health, safety and environmental information:

- pH value (indicate conc. and temp.): Not applicable.
- boiling point/boiling range: °C 28 - 215
- flash point: °C <0 (from literature)
- flammability (solid, gas): >250
- explosive properties: vol. % 0,6 - 8 (from literature)
- oxidizing properties: Not applicable.
- vapour pressure: kPa 45 – 90
- density at 15 °C: kg/m³ 725 – 750
- relative density: No available data.
- solubility (indicate solvent): g/L No available data.
- Solubility in water: g/L Not soluble.
- partition coefficient n-octanol / water logPow Not applicable.
- viscosity (kinematic) at xx °C: mm²/s No available data.
- vapour density at 15°C: kg/m³ No available data.
- volatility: No available data.

9.3. Other data:

- melting point/freezing point: °C No available data
- disintegration temperature: °C No available data
- auto ignition temperature: °C 280 - 470 (from literature)
- conductivity: pS/m No available data

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10. STABILITY AND REACTIVITY

- **Reactivity:** Stable at prescribed storage and use conditions.
- **Chemical stability:** Stable at prescribed storage and use conditions.
- **Possibility of hazardous reactions:** Halogens, strong acids, alkali and strong oxidants.
- **Conditions to avoid:** Eliminate all sources of ignition, open flame and sparking because heating increases pressure and the risk of fire and explosion.
- **Incompatible materials:** Halogens, strong acids, alkali and strong oxidants.
- **Hazardous decomposition products:** There aren't any in normal working conditions and if the product is properly stored but thermal decomposition may produce harmful gases, including carbon monoxide (CO).

11. TOXICOLOGICAL INFORMATION

- **Information on toxicological effects:**
- **Acute toxicity**
 - oral (LD₅₀): > 5000 mg/kg body mass (rat).
 - inhalation (LC₅₀): > 5,2 mg/L (rat).
 - dermal (LD₅₀): > 2000 mg/kg body mass (rabbit).
- **Irritation/Corrosion**
 - skin: Causes skin irritation (H315).
 - eyes: No data available.
 - respiratory tract: No data available.
- **Sensitisation**
 - skin: No data available.
 - respiratory tract: No data available.
- **Aspiration hazard:** May be fatal if swallowed and enters airways (H304).
- **Other classic effects (e.g. unconsciousness, particularly toxic metabolites, etc.):** May cause drowsiness or dizziness (H336).
- **Permanent effects due to acute or chronic exposure:** No data available.
- **Special effects**
 - mutagenicity: May cause genetic defects (H340).
 - carcinogenicity: May cause cancer (H350).
 - carcinogenicity: No data available.
 - fertility decrease: No data available.
 - harmful effect on unborn child: Suspected of damaging fertility or the unborn child (H361f).
 - toxicity to reproduction: No data available.
 - other (e.g. endocrine disruptors): May cause drowsiness or dizziness (H336).

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- STOT (SE): No data available.
- STOT (RE): No data available.
- **Prohibitions and restrictions:** No data available.
- **Other:** No data available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

- to aquatic organisms:
 - EL₅₀= 4,5 mg/L (*Daphnia magna*)
 - EL₅₀= 3,1 mg/L (72h, *Selenastrum capricornutum*)
 - LL₅₀= 8,2 mg/l (*Pimephales promelas*)
- to ground organisms: No data available.
- to plants and land animals: No data available.

12.2. Persistence and degradability

- biodegradation: Not easily biodegradable.
- other degradation processes: No data available.
- degradation in wastewater: Insoluble in water. Creates a film on the surface wherefrom it evaporates quickly but if larger quantities are spilled aquatic organisms can be affected due to lack of oxygen.

12.3. Bioaccumulative potential

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

12.4. Mobility in soil

- Known or predicted distribution in environmental compartments: **Method:** No data available. No data available.
- surface tension: No data available.
- absorption/desorption: See item 9.
- other physical and chemical properties:

12.5. Results of PBT and vPvB assessment

- data from chemical safety report: Product does not fulfill PBT and vPvB criteria for classification defined by Annex XIII of REACH Regulation.

12.6. Other adverse effects:

Otrovno za vodeni okoliš s dugotrajnim učincima.

13. DISPOSAL CONSIDERATIONS

- **Waste codes:** 13 07 02*
- **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.
- **Waste from residues:** Product has no classic waste except in case of accidental release/ discharging in which case see item 6.

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- **Contaminated packaging:** Not applicable.
- **Relevant provisions:** Act on sustainable waste management, Ordinance on Waste Catalogue, Ordinance on waste management.

14. TRANSPORT INFORMATION

- **UN proper shipping name:** GASOLINE or PETROL
- **UN number:** **1203**
- **Transport hazard class(es)**
- ADR/RID/ADN/ICAO/IATA: 3
- IMDG: 3
- **Packing group**
- ADR/RID/ADN/IMDG/ICAO/IATA: II
- **Environmental hazards**
- ADR, RID, ADN, ICAO/IATA: Toxic to aquatic life with long lasting effects.
- IMDG: Maritime pollutant
- **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.

ADR

Transport category: 2
 Vehicle for tank carriage: FL
 Tank code: LGBF
 Tunnel restriction code: D/E
 Label: 3
 Classification code: F1
 Hazard identification: 33
 Special provisions: 243, 534, 363, 664, TU9, S2, S20

ADN

Label: 3
 Additional requirements/Remarks: 14
 Dangers: 3+N2+CMR+F
 Equipment required: PP, EP, EX, TOX, A
 Classification code: F1
 Carriage permitted: da
 Type of tank vessel: N/2
 Anti-explosion protection required: da
 Maximum degree of filling in %: 97

ICAO

RID

Transport category: 2
 Tank code: LGBF
 Label: 3
 Classification code: F1
 Hazard identification: 33
 Special provisions: 243, 534, TU9

IMDG

Subsidiary risk: Maritime pollutant
 Group of the cargo: E
 Special provisions: 243, 363, TP1
 EmS: F-E, S-E
 Segregation group: E

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Label: 3
 Cargo IMP code: 3H
 Passenger and cargo aircraft: yes
 EQ: E2
 Max Net Qty/Pkg: LQ 1L, UN PACKAGE 5L
 Cargo aircraft only: 60L
 Pkg Inst: Y341/353/364

Transport in liquid/bulk condition according to MARPOL Convention, 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

- **Applicable EU regulations:** 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)
- **Applicable national regulations:** Chemicals Act; Regulations on Hazardous Substance Exposure Limit Values during Work and Biological Limit Values; Act on Sustainable Waste Management, Ordinance on Waste Catalogue, Ordinance on waste management.
- **Chemical Safety Assessment carried out (CSA):** YES X NO
- **Authorization information:** -
- **Restriction information:** -

16. OTHER INFORMATION

Revision indicators

Section: **Subject of change:**

- Completely new edition of SDS "FCC Gasoline/FCC Gasoline-Hydrotreated", with changes in all sections.
- H224 Extremely flammable liquid and vapour.
 - H304 May be fatal if swallowed and enters airways.
 - H315 Causes skin irritation.
 - H336 May cause drowsiness or dizziness.
 - H340 May cause genetic defects.
 - H350 May cause cancer.

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H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
P101	If medical advice is needed, have product container or label at hand.
P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to accordance with national regulation.

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
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

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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
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