

Product	<b>CROATIAN CRUDE OIL BLEND</b>	Date:	18.2.2019
		Edition:	2

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

### 1.1. Product identifier

- Trade name: **Croatian crude oil blend**
- Chemical name: -
- Index no.: -
- EC no.: -
- CAS no.: -
- Registration No.: Substances which are the ingredients of the mixture are not subject to registration in accordance with Annex V of Regulation No. 1907/2006 (REACH).
- Product code: 1000878

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

- Relevant identified uses: Raw material.
- Uses advised against: The uses that are listed 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](mailto:sds@ina.hr)

- Responsible person:

**SD & HSE**

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](mailto: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

Eye irrit. 2; H319

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Asp.tox.1; H304  
 Carc. 1B; H350  
 Muta. 1B; H340  
 STOT SE 3; H336  
 STOT RE 2; H373 (blood, spleen, liver, thymus)  
 Aquatic Chronic 2; H411

Full text of H-phrases: see section 16.

## 2.2. Label elements

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

Hazard pictograms:



Signal word: Danger

Hazard statements (H):	H225	Highly flammable liquid and vapour.	
	H304	May be fatal if swallowed and enters airways.	
	H319	Causes serious eye irritation.	
	H336	May cause drowsiness or dizziness.	
	H340	May cause genetic defects.	
	H350	May cause cancer.	
	H373	May cause damage to organs through prolonged or repeated exposure.	
	H411	Toxic to aquatic life with long lasting effects.	
	Precautionary statements (P):	EUH066	Repeated exposure may cause skin dryness or cracking.
		P201	Obtain special instructions before use.
P210		Keep away from heat/sparks/open flames/hot surfaces. — No smoking.	
P280		Wear protective gloves/protective clothing/eye protection/face protection.	
P281		Use personal protective equipment as required.	
P301+ P310		IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P331		Do NOT induce vomiting.	
P501	Dispose of contents/container in accordance with legal regulations.		

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### 2.3. Other hazards

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>-Substance:</b>		<b>Mixture:</b>	<b>X</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)		
Crude oil ("Moslavina")	8002-05-9	232-298-5	-	60 - 75	Flam.liq.2;H225 Eye Irrit.2; H319 Asp.tox.1; H304 Carc. 1B; H350 STOT SE 3; H336 STOT RE 2; H373 (blood, spleen, liver, thymus) Aquatic.Chronic2; H411
Crude oil ("Slavonija")	8002-05-9	232-298-5	-	15-25	Flam.liq.2;H225 Eye Irrit.2; H319 Asp.tox.1; H304 Carc. 1B; H350 STOT SE 3; H336 STOT RE 2; H373 (blood, spleen, liver, thymus) Aquatic.Chronic2; H411
Gas condensate	64741-47-5	265-047-3	-	10-15	Carc. 1B; H350 Muta. 1B; H340 Asp.tox.1; H304
benzene <sup>(1)</sup>	71-43-2	200-753-7	-	1.36	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 <sup>(1)</sup>	108-88-3	203-625-9	-	1.50	Flam. Liq. 2 H225 Repr. 2 H361d Asp. tox.1 H304 STOT RE 2* H373 Skin irrit. 2 H315 STOT SE 3 H336
n-hexane <sup>(1)</sup>	110-54-3	203-777-6	-	1.60	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

<sup>(1)</sup> These components were not added on purpose but are reported as important for classification.

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## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

- general information: In case of ingestion, always assume aspiration into the lungs has occurred, accompanied by the pulmonary oedema hazard. Show the label on the packaging or the SDS.
- 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 difficulty in breathing or respiratory arrest, open airways, initiate resuscitation (heart massage and artificial respiration) and immediately seek medical attention.
- after skin contact: Take the soaked clothing and footwear off in a safe manner. Rinse thoroughly the places of contact with water and soap for 10-15 minutes. In case of irritation, swelling or redness immediately seek medical assistance.
- after eye contact: Remove contact lenses 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 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.

### 4.2 Most important symptoms and effects, both acute and delayed

- after inhalation: May cause drowsiness or dizziness.
- after skin contact: Repeated exposure may cause skin dryness or cracking.
- after eye contact: Redness, strong eye irritation.
- after ingestion: It can cause nausea or headache. May cause lung damage if swallowed.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Only qualified medical personnel should administer oxygen.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

- SUITABLE: Air foam, firefighting powder class B, water mist for large fires, for smaller fires CO<sub>2</sub>, sand or earth is allowed.
- UNSUITABLE: Water jet.
- **Firefighting measures for special hazards:** Remove all ignition sources, if required call firemen. Particularly take into account that there is a risk of creating an explosive mixture with air at room temperatures. Carbon monoxide can develop in case of incomplete combustion. Unidentified organic and inorganic compounds.

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- **Special firefighting measures:** Use of water mist and spray for cooling the storage tank surfaces, equipment and access to affected area. Use of water mist and spray for cooling of undamaged storage tanks surfaces exposed to heat and for protection of persons. Only those trained in fire-fighting/fire protection may use water spray (dispersed water).
- **Special fire fighter protective equipment:** Self-contained open-circuit compressed air breathing apparatus in accordance with HRN EN 137.  
Protective clothing for firefighters (intervention suit) in accordance with HRN EN 469.
- 5.2 Special hazards arising from the substance or mixture:** Vapours, as heavier than air, remain close to the ground and in recesses; they may spread along ground, repeated fire is possible on water surface.
- 5.3 Advice for firefighters:** No data.

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures:** Display a visible sign prohibiting entrance, use of open flame and sparking devices. Eliminate all sources of ignition. Measure the concentration of fumes in the air, in compliance with regulations. Do not inhale vapours, evaporation. Do not smoke. Stand upwind of the spill site. Use personal protection equipment listed in Section 8.
- 6.2 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 dialling 112.
- 6.3 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 (sand or other inert material). 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 spillage into waterways, inform National Protection and Rescue Directorate (DUZS) on telephone number 112.
- 6.4 Reference to other sections:** See sections 8 and 13.

## 7. HANDLING AND STORAGE

### - Handling

#### 7.1 Precautions for safe handling

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7.1.1 Safe handling advice: Re-loading i.e. unloading/loading shall be performed in open space with proper equipment. Respect measures related to fire prevention and protection at work. Keep away from heat sources and remove all ignition sources. Provide good ventilation of the area.

7.1.2 Advice on general occupational hygiene: Do not smoke, eat, drink or keep food in a room where this product is handled. It is mandatory to wear prescribed work suit, rubber boots, protective gloves and goggles. Personal clothing should be kept separately from work clothing and work place. Heavily soiled, soaked or torn clothing should be immediately replaced.

## 7.2 Conditions for safe storage, including any incompatibilities

- SUITABLE: Store in tightly closed containers, properly built and equipped where adequate temperature is provided and ensure good ventilation of the area. Take preventive measures against electrostatic charge. Make sure that receiving tank farms are below self-supporting tanks.

- TO BE AVOIDED: All other, especially storage close to waterways.

### - Packaging materials

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

- NOT SUITABLE: Any other.

7.3 Specific end use(s): No data.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

Hazardous substance (CAS No.)	Occupational exposure limit values/short term values (OEL/STEL)		Biological limit values
	ppm	mg/m <sup>3</sup>	
benzene (71-43-2)	1/-	3,25/-	28 µg /L (0,36 µmol/L) – blood immediately at the end of work shift 46 µg/g of creatinine* (21,7 µmol/mol of creatinine*) – urine sample at the end of work shift
n-hexane (110-54-3)	20/-	72/-	150 µg/L (1,74 µmol/L) – blood during exposure period 1,66 µmol/L (40 ppm) – in extremely exhaled air during exposure period

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toluene (108-88-3)	50/192	100/384	1,0 mg/L (10,85 µmol/L) – blood at the end of work shift 0,83 µmol/L (20 ppm) – in extremely exhaled air during exposure period
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- **Monitoring procedures:** Measuring oxygen concentrations in air, according to the regulations.

## 8.2. Exposure controls

- **Summary of risk management measures:** Provide good ventilation / air outlet in the premises.

### 8.2.1 Occupational exposure controls

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

Provide good ventilation / air outlet of work area. Provide a decontamination sprayer for the eyes and face. Adopt personal hygiene measures: wash the hands after contact with the product, 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 product: for example, personal protective equipment and ventilation system. Do not swallow. If swallowed, seek medical attention.

### 8.2.2 Personal protective equipment

- respiratory tract protection: In case of accident, if concentration is greater than OEL protective mask (HRN EN 136) or with filter "A" (HRN EN 14387) should be used, while at oxygen concentrations lower than 17%, self-contained open circuit compressed air breathing apparatus (HRN EN 137) should be used.
- 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 or visor (HRN EN 166).
- skin and body protection: Use chemical resistant gloves, clothing and apron (where there is a risk of splashing).
- **Special hygienic and safety precautions:** Regularly 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.

### 8.2.3 Environmental exposure controls

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

- state:		Liquid.
- colour:		Dark brown.
- odour:		Characteristic, after hydrocarbons.
- odour threshold:		No data.
- pH value (indicate conc. and temp.):		No data.
- Melting point/freezing point:	°C	No data.
- boiling point/boiling range:	°C	56,3-369,7
- flash point:	°C	No data.
- Evaporation rate:		No data.
- flammability (solid, gas):		Highly flammable liquid and vapour.
- explosive limits:	vol. %	No data.
- vapour pressure:	kPa	13
- vapour density at 15°C:	kg/m <sup>3</sup>	No data.
- relative density:		0,8308
- density at 15°C:	kg/m <sup>3</sup>	830,8
- solubility (indicate solvent):	g/L	Good solubility.
- Solubility in water:	g/L	Low solubility.
- partition coefficient n-octanol / water	logPow	No data.
- auto ignition temperature:	°C	No data.
- disintegration temperature:	°C	No data.
- viscosity (kinematic) at 40 °C:	mm <sup>2</sup> /s	2,86
- oxidizing properties:		Non-oxidizing.
- conductivity:	pS/m	No data.

### 9.2 Other information:

No data.

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b>	Stable under recommended handling and storage conditions. Do not polymerize.
<b>10.2 Chemical stability:</b>	Stable under recommended handling and storage conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Potentially hazardous reactions are not known.
<b>10.4 Conditions to avoid:</b>	Sources of heat, flame, spark.
<b>10.5 Incompatible materials:</b>	Strong oxidants.



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**10.6 Hazardous decomposition products:** None in standard operating conditions and in proper storage; however thermal decomposition may generate harmful gases, including carbon-monoxide (CO).

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

#### - Acute toxicity

- oral (LD<sub>50</sub>): > 5000 mg/kg<sub>body mass</sub> (rat)
- inhalation (LC<sub>50</sub>): > 5000 mg/m<sup>3</sup> (if hydrogen sulphide is not present)
- dermal (LD<sub>50</sub>): > 2000 mg/kg<sub>body mass</sub> (rabbit)

#### - Irritation/Corrosion

- skin: Repeated exposure may cause skin dryness or cracking. (EUH066)
- eyes: Causes strong eye irritation. (H319)
- respiratory tract: No data.

#### - Sensitisation

- skin: At sensitive persons redness and prickle can appear.
- respiratory tract: No data.

**- Aspiration hazard:** May be lethal if ingested and enters respiratory tract.

**- Other classic effects: (e.g. unconsciousness, particularly toxic metabolites, etc.):** May cause nausea or headache. May cause drowsiness or dizziness.

**- Permanent effects due to acute or chronic exposure:** No data.

#### - Special effects

- mutagenicity: May cause genetic defects. (H340)
- carcinogenicity: May cause cancer. (H350)
- fertility decrease: No data.
- harmful effect on unborn child: No data.
- toxicity to reproduction: No data.
- other (e.g. endocrine disruptors): No data.
- STOT (SE): No data.
- STOT (RE): May cause damage to blood, liver, spleen and/or thymus through prolonged or repeated exposure. (H373)

**- Prohibitions and restrictions:** No data.

**- Other:** No data.

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## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

- to aquatic organisms: Toxic for aquatic life with lasting effects.
- to ground organisms: No data.
- to plants and land animals: No data.

### 12.2. Persistence and degradability

- biodegradation: Partially degradable.
- other degradation processes: No data.
- degradation in wastewater: No data.

### 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

**Method:** No data.

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

### 12.5. Results of PBT and vPvB assessment

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

- 12.6. Other adverse effects:** No data.

## 13. DISPOSAL CONSIDERATIONS

- 13.1 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 codes:** 05 01 05\*
- **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, Regulation on waste management.

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## 14. TRANSPORT INFORMATION

<b>14.1 UN number:</b>	<b>1267</b>
<b>14.2 UN proper shipping name:</b>	<b>CRUDE OIL (vapour pressure at 50 °C not larger than 110 kPa)</b>
<b>14.3 Transport hazard class(es)</b>	
ADR/RID/ADN/ICAO/IATA:	3
IMDG:	3
<b>14.4 Packing group</b>	
ADR/RID/ADN/IMDG/ICAO/IATA:	II
<b>14.5 Environmental hazards</b>	
ADR, RID, ADN, ICAO/IATA:	yes
IMDG:	yes
<b>14.6 Special precautions for user</b>	
<b>ADR</b>	<b>RID</b>
Transport category: 2	Transport category: 2
Vehicle for tank carriage: FL	Tank code: LGBF
Tank code: LGBF	Label: 3
Tunnel restriction code: (D/E)	Classification code: F1
Label: 3	Hazard identification: 33
Classification code: F1	Special provisions: 357, 640D
Hazard identification: 33	
Special provisions: 357, 640D, S2, S20	
<b>ADN</b>	<b>IMDG</b>
Label: 3	Subsidiary risk: -
Additional requirements/Remarks: 14,* see 3.2.3.3	Group of the cargo: B
Dangers: 3+ (N1,N2,N3,CMR,F)	Special provisions: 357, TP1, TP8
Equipment required: *	EmS: F-E, S-E
Classification code: F1	Segregation group: B
Carriage permitted: T	
Type of tank vessel: *	
Anti-explosion protection required: yes	
Maximum degree of filling in %: *	
<b>ICAO</b>	
Label: 3	
Cargo IMP code: RFL	
Passenger and cargo aircraft: 5L	

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Cargo aircraft only: 60L

ERG code: 3L

**14.7 Transport in bulk condition according to MARPOL Convention, Annex II and IBC Codex**

Trade name: Not applicable.

Pollution category (according to MARPOL, Annex II): Not applicable.

Vessel type (according to IBC Code): Not applicable.

Special and operative requirements (according to IBC Code): Not applicable.

**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**- 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 (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; 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; Regulation on workers protection to dangerous chemicals exposure during work, exposure limit values and biological limit values; Act on Sustainable Waste Management, Regulation on Waste Catalogue, Regulation on waste management.

**- Authorization information: -**

**- Restriction information: -**

**- Chemical Safety Assessment carried out (CSA):** YES X NO

**16. OTHER INFORMATION**

**Revision indicators**

**Section:** **Subject of change:**  
Completely revised version with changes in almost all sections.

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

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H319 Causes serious eye irritation.

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H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

### 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

### 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.

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**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 2017.
4. Handbook – Identified Uses of Petroleum Substances, Concawe, July 2018

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