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|---------|---------------------|----------|-----------|
| Product | <b>DECANTED OIL</b> | Date:    | 2016/6/27 |
|         |                     | Edition: | 3         |

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

### 1.1. Product identifier

- Trade name: **Decanted oil**
- Chemical name: Distillates (petroleum), heavy catalytic cracked
- Index no.: 649-010-00-2
- EC no.: 265-063-0
- CAS no.: 64741-61-3
- Registration No.: 01-2119486893-20-0012
- Product code: 1000079, 3900001

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

- Relevant identified uses: **Industrial:**  
Manufacture of substances, formulation and (re)packaging of substances and mixtures, use as intermediate, distribution of substance, use as fuel.  
**Professional:**  
Use as fuel, use in road building and construction.
- 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**

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## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

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

Carc. 1B; H350  
Acute Tox. 4; H332  
Asp. Tox. 1; H304  
Repr. 2; H361d  
STOT 2; H373  
Aquatic Chronic 1; H410

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:



**GHS07    GHS08    GHS09**

Signal word: **Danger**

|                        |                               |   |  |
|------------------------|-------------------------------|---|--|
| Hazard statements (H): | H350                          | May cause cancer.   |  |
|                        | H332                          | Harmful if inhaled.   |  |
|                        | H304                          | May be fatal if swallowed and enters airways.                                     |  |
|                        | H361d                         | Suspected of damaging the unborn child.   |  |
|                        | H373                          | May cause damage to organs through prolonged or repeated exposure.                |  |
|                        | H410                          | Very toxic to aquatic life with long lasting effects.                             |  |
|                        | Precautionary statements (P): | P201  | Obtain special instructions before use.                                    |
|                        |                               | P260  | Do not breathe dust/fume/gas/mist/vapours/spray.                           |
|                        |                               | P273  | Avoid release to the environment.  |
|                        |                               | P280  | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+                  |                               | IF SWALLOWED: Immediately call a POISON CENTER                                    |  |
| P310                   |                               | and/or doctor/physician.  |  |
|                        | P331                          | Do NOT induce vomiting.   |  |
|                        | P501                          | Dispose of contents/container to specify in accordance with national regulations. |  |

### 2.3. Other hazards

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### 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) |        |  |  |  |
| Distillates (petroleum), heavy catalytic cracked           | 64741-61-3               | 265-063-0 | 01-2119486893-20-0012    | ≤ 99,5 | H350   |  |  |

### 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 turn the person to lateral position, 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 contaminated clothes. Rinse the afflicted skin surface with water and soap for 10 - 15 minutes. If the symptoms persist, seek medical attention.
- 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 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:** Possibility of pulmonary edema due to aspiration into the lungs. Only qualified medical personnel should administer oxygen.

### 5. FIRE FIGHTING MEASURES

**- Extinguishing media**

- SUITABLE: Foam, water mist, dry powder, CO<sub>2</sub>, inert gases, earth or sand.
- NOT SUITABLE: Water jet, simultaneous use of water and foam.

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- **Firefighting measures for special hazards:** The product floats and can be reignited.
- **Special firefighting measures:** No data available.
- **Special fire fighter protective equipment:** In case of large fires or fires in enclosed spaces wear protective clothing for firefighters (HRN EN 469) and a self-contained open-circuit compressed air breathing apparatus (HRN EN 137).
- **Special hazards arising from the substance or mixture:** Incomplete burning results in a mixture of solid and liquid particulates and gases, including H<sub>2</sub>S, SO<sub>x</sub>, sulphuric acid and undefined organic and inorganic compounds.
- **Advice for firefighters:** No data available.
- **Additional information:** No data available.

## 6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions:** Stop the spilling of the product, if possible to do so in a safe manner. Stand upwind from the release site. Remove the persons who are not part of the intervention team. Eliminate all sources of ignition (sparks, electricity, flame, etc.). Ensure good ventilation.
- **Environmental precautions:** Prevent product leaks and spillage into watercourses, soil and drainage system.
- **Methods for cleaning-up and recovery:** Enclose the released product using dry earth, sand or similar non-flammable material. Cover large spills with foam in order to minimize the possibility of fire. Store the released product in dedicated containers and dispose of safely. Collect contaminated soil and dispose of in accordance with the national regulations. Enclose the product released into water with floating booms.
- **Additional warnings:** No data available.

## 7. HANDLING AND STORAGE

- **Handling**
- **safety precautions:** Check the level of hydrogen sulphide (H<sub>2</sub>S) before entering closed spaces where the product is stored. Vapours are heavier than air, so the accumulation of the product at the bottom of the storage space is possible.
- **safe handling advice:** Avoid skin contact. Do not inhale vapours. Wash hands after using the product. Use prescribed protective equipment (see Section 8).
- **Storage: technical measures and storage conditions**
- **SUITABLE:** Store only in original, tightly closed containers. Ventilate the area in which the product is stored.
- **TO BE AVOIDED:** Keep away from heat, sparks, open flame and hot surfaces.

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- **Packaging materials**
- RECOMMENDED: No data available.
- NOT SUITABLE: No data available.
- **Special use:** No data available.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Exposure limit values

| Hazardous substance<br>(CAS No.) | Occupational exposure<br>limit values/short term<br>values (OEL/STEL) |                   | Biological limit<br>values |
|----------------------------------|---|-------------------|----------------------------|
|                                  | ppm   | mg/m <sup>3</sup> |                            |
| -                                | -   | -                 | -                          |

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

### 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:** No data available.

#### - Personal protective equipment

- respiratory tract protection: Full face mask (HRN EN 136) with filter type "A" or a self-contained open-circuit compressed air breathing apparatus (HRN EN 137).
- hand protection: Protective gloves (HRN EN 374).
- eye protection: Protective goggles (HRN EN 166).
- skin and body protection: Protective clothing against chemicals (HRN EN ISO 6529).
- **Special hygienic and safety precautions:** Do not smoke, eat, and drink when handling the product. Keep away from food and drinks.

#### 8.2.2. Environmental exposure controls

- **Summary of risk management measures:** Store in original, tightly closed containers in order to prevent release into the environment. Do not release into the environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. General information:

- state: liquid
- colour: dark brown
- odour: weak
- odour threshold: No data available.

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

- pH value (indicate conc. and temp.): Not applicable.

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| - boiling point/boiling range:            | °C                  | 167 – 600   |          |           |
| - flash point:                            | °C                  | 40 – 95   |          |           |
| - flammability (solid, gas):              |                     | flammable   |          |           |
| - explosive properties:                   | vol. %              | 0.6 – 7   |          |           |
| - oxidizing properties:                   |                     | No data available.                                |          |           |
| - vapour pressure at 120°C:               | kPa                 | 0.02 – 0.79 (from literature)                     |          |           |
| - density at 15 °C:                       | kg/m <sup>3</sup>   | 0.892-1.106                                       |          |           |
| - relative density:                       |                     | No data available.                                |          |           |
| - solubility (indicate solvent):          | g/L                 | Slightly soluble in motor gasolines and kerosene. |          |           |
| - Solubility in water:                    | g/L                 | Non-soluble                                       |          |           |
| - partition coefficient n-octanol / water | logPow              | 2.7 – 6   |          |           |
| - viscosity (kinematic) at 100°C:         | mm <sup>2</sup> /s  | 2 – 8   |          |           |
| - vapour density at 15°C:                 | kg/m <sup>3</sup>   | No data available.                                |          |           |
| - volatility:                             |                     | No data available.                                |          |           |
| <b>9.3. Other data:</b>                   |                     |   |          |           |
| - melting point/freezing point:           | °C                  | No data available.                                |          |           |
| - disintegration temperature:             | °C                  | No data available.                                |          |           |
| - auto ignition temperature:              | °C                  | 220 – 550 (from literature)                       |          |           |
| - 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:** Stable under recommended handling and storage conditions.
- **Conditions to avoid:** Sources of heat, open flame, spark.
- **Incompatible materials:** Strong oxidants and peroxides.
- **Hazardous decomposition products:** Incomplete burning results in a mixture of solid and liquid particulates and gases, including H<sub>2</sub>S, SO<sub>x</sub>, sulphuric acid and undefined organic and inorganic compounds.

## 11. TOXICOLOGICAL INFORMATION

### - Information on toxicological effects:

#### - Acute toxicity

- oral (LD<sub>50</sub>): >5000 mg/kg
- inhalation (LC<sub>50</sub>): 4.1 mg/L

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- dermal (LD<sub>50</sub>): >2000 mg/kg
- **Irritation/Corrosion**
- skin: Non-irritant. Frequent exposure may cause dry and cracked skin.
- eyes: Short-term eye irritation.
- respiratory tract: Non-irritant.
- **Sensitisation**
- skin: No data on sensitisation.
- 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.):** No data available.
- **Permanent effects due to acute or chronic exposure:** No data available.
- **Special effects**
- mutagenicity: Non-mutagenic.
- carcinogenicity: May cause cancer (H350).
- fertility decrease: No data available.
- harmful effect on unborn child: Suspected of damaging the unborn child (H361d).
- toxicity to reproduction: No data available.
- other (e.g. endocrine disruptors): No data available.
- STOT (SE): No data on systemic toxicity.
- STOT (RE): May cause damage to blood, thymus and liver through prolonged or repeated exposure through skin (H373).
- **Prohibitions and restrictions:** No data available.
- **Other:** No data available.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

- to aquatic organisms: EL<sub>50</sub>= 2 mg/L (48h, *Daphnia magna*)  
ErL<sub>50</sub>= 0,75 mg/L (72h, *Selenastrum capricornutum*)  
LL<sub>50</sub>= 79 mg/L (96h, *Pimephales promelas*)
- to ground organisms: No data available.
- to plants and land animals: No data available.

### 12.2. Persistence and degradability

- biodegradation: Not applicable. Standard tests for proving are used for a single substance, and the product is a UVCB substance.

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- other degradation processes: Not applicable. Standard tests for proving are used for a single substance, and the product is a UVCB substance.

- degradation in wastewater: Not applicable. Standard tests for proving are used for a single substance, and the product is a UVCB substance.

### 12.3. Bioaccumulative potential

- bio-concentration factor (BCF): Not applicable. Standard tests for proving are used for a single substance, and the product is a UVCB substance.

### 12.4. Mobility in soil

- Known or predicted distribution in environmental compartments:

**Method:**

Not applicable. Standard tests for proving are used for a single substance, and the product is a UVCB substance

- surface tension:

Not applicable. Standard tests for proving are used for a single substance, and the product is a UVCB substance

- absorption/desorption:

Not applicable. Standard tests for proving are used for a single substance, and the product is a UVCB substance

- other physical and chemical properties: No data available.

### 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: No data available.

## 13. DISPOSAL CONSIDERATIONS

- Waste codes: 13 07 03\*

- Waste treatment methods: 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: **Flammable liquid, n.o.s.**

- UN number: **1993**

- Transport hazard class(es)



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ADR/RID/ADN/ICAO/IATA: 3

IMDG:

**- Packing group**

ADR/RID/ADN/IMDG/ICAO/IATA: III

**- Environmental hazards**

ADR, RID, ADN, ICAO/IATA:

IMDG: YES

**- Special precautions for user**

**ADR**

Transport category: 3

Vehicle for tank carriage: FL

Tank code: LGBF

Tunnel restriction code: D/E

Label: 3

Classification code: F1

Hazard identification: 30

Special provisions: 274,601,640E

**ADN**

Label: 3+

Additional requirements/Remarks: 14;27

\*See 3.2.3.3 of ADN

Dangers: 3+ (N1,N2,N3,CMR,F or S)

Equipment required: \*See 3.2.3.3 of AND

Classification code: F1

Carriage permitted:

Type of tank vessel: \*See 3.2.3.3 of AND

Anti-explosion protection required: YES

Maximum degree of filling in %: \*See 3.2.3.3 of ADN

**RID**

Transport category: 3

Tank code: LGBF

Label: 3

Classification code: F1

Hazard identification: 30

Special provisions: 274,601,640E

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### 15. REGULATORY INFORMATION

- **Applicable EU regulations:** EU Regulation No 1907/2006 and No 1272/2008 of the European Parliament and of 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; 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 Substance Exposure Limit Values during Work and Biological Limit Values, Act on Sustainable Waste Management, Regulation 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 "Decanted oil", with changes in all sections.

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

|           |  |
|-----------|--|
| H350      | May cause cancer.  |
| H332      | Harmful if inhaled.  |
| H304      | May be fatal if swallowed and enters airways.                              |
| H361d     | Suspected of damaging the unborn child.                                    |
| H373      | May cause damage to organs through prolonged or repeated exposure.         |
| H410      | Very toxic to aquatic life with long lasting effects.                      |
| P201      | Obtain special instructions before use.                                    |
| P260      | Do not breathe dust/fume/gas/mist/vapours/spray.                           |
| 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 and/or doctor / physician.  |

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- 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
- 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
- LC<sub>50</sub> Lethal concentration for 50% of tested organisms
- LD<sub>50</sub> 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. Category Justification Document, Heavy fuel oil components, Concawe 2010.
4. Hazard classification and labelling of petroleum substances in the EEA, Concawe 2015.

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

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