1 Identification

- **Product identifier**
  - **Product name:** Einpressfluid OH 723
  - **Product code:** A100437
  - **Former product code (till July 2012):** 43100

- **Application of the substance / the mixture**
  - Industrial use

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** oelheld GmbH
    - Ulmer Str. 135-139
    - 70188 Stuttgart
    - GERMANY
    - Tel.: +49-(0)711-16863-0
    - Fax.: +49-(0)711-16863-40
    - E-Mail: hutec@oelheld.de
    - Internet: www.oelheld.de
  - **Emergency telephone number:**
    - during hours of business see above
    - out of office hours in German (or English):
      - Dr. Schnödt Tel. +49 71 11 68 63-997
      - Mr. Philipp Storr Tel. +49 71 11 68 63-992
      - Mr. Martin Storr Tel. +49 71 11 68 63-993
      - Mr. Speth Tel. +49 71 11 68 63-994
    - see above or contact a Poison Control Center

2 Composition/information on ingredients

- **Chemical characterization:** Mixtures

- **Description:** Mixture of synthetic aliphatic hydrocarbons.

- **Dangerous components:**
  - 88649-11-8 1-Decene, Dimer, Hydrogenated

- **Additional information:** For the wording of the listed risk phrases refer to section 16. The GHS-classifications which are shown here for the dangerous components are classified according the rules of the European GHS (Regulation (EC) No 1272/2008).

3 Hazard(s) identification

- **Classification of the substance or mixture**
  - The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**
  - The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**
  - **Labelling according to EU guidelines:** The product has been classified and marked in accordance with directives on hazardous materials. Observe the general safety regulations when handling chemicals.

- **Code letter and hazard designation of product:** Harmful

- **Hazard-determining components of labeling:** 1-Decene, Dimer, Hydrogenated

- **Risk phrases:**
  - 20 Harmful by inhalation.
  - 65 Harmful: may cause lung damage if swallowed.

- **Safety phrases:**
  - 23 Do not breathe vapour/spray.
  - 51 Use only in well-ventilated areas.
  - 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

- **Hazard description:**
  - **WHMIS classification:** D1B - Toxic material causing immediate and serious toxic effects

WHMIS: workplace hazardous materials information system (Canadian)
Product name: Einpressfluid OH 723

- Classification system:
  - NFPA ratings (scale 0 - 4)
    - Health = 1
    - Fire = 1
    - Reactivity = 0
  - HMIS-ratings (scale 0 - 4)
    - Health = 1
    - Fire = 1
    - Reactivity = 0
  - Other hazards
    The NFPA- and the HMIS-ratings range from 0 (least severe hazard) to 4 (most severe hazard).
    NFPA and HMIS are regulations in the USA.
    NFPA: National Fire Protection Association
    HMIS: Hazardous Material Identification System

### 4 First-aid measures

- General information:
  Remove any clothing soiled by the product.
  In case of occurring of symptoms or in doubt consult a doctor.
  If a doctor is consulted show this material safety data sheet.

- After inhalation:
  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
  In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:
  Wash with water and soap and rinse thoroughly.

- After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After ingestion:
  Do not induce vomiting; immediately call for medical help.

### 5 Fire-fighting measures

- Suitable extinguishing media:
  CO2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.

- For safety reasons unsuitable extinguishing media:
  Water with full jet

- Special hazards arising from the substance or mixture:
  In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
  Carbon monoxide (CO)

- Protective equipment:
  Wear self-contained respiratory protective device.

- Additional information:
  Cool endangered receptacles with water spray.
  Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures:
  Ensure adequate ventilation
  Particular danger of slipping on leaked/spilled product.

- Environmental precautions:
  Do not allow to enter sewers/ surface or ground water.
  Do not allow to penetrate the ground/soil.
  Keep contaminated washing water and dispose of appropriately.

- Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.

- Reference to other sections:
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

### 7 Handling and storage

- Precautions for safe handling:
  Ensure good ventilation/exhaust at the workplace.
  Open and handle receptacle with care.
  Prevent formation of aerosols.

- Information about protection against explosions and fires:
  Fumes can combine with air to form an explosive mixture above the flash point.

- Storage:
  - Requirements to be met by storerooms and receptacles:
    Store only in the original receptacle.
  - Information about storage in one common storage facility:
    Not required.
8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation. Not necessary if room is well-ventilated.
- Protection of hands: Protective gloves or protective skin cream
- Material of gloves: Nitrile rubber, NBR
- Penetration time of glove material: At a glove thickness of about 0.4 mm the value of the permeation breakthrough in accordance with EN 374 is for chemically similar products according to the manufacturer: >480 min. (Degradation EN 374 rating class 6)

- Eye protection: Goggles recommended during refilling.
- Body protection: Protective work clothing

9 Physical and chemical properties

- General Information
  - Appearance: Fluid
  - Form: Liquid
  - Color: Colorless
  - Odor: Odorless
  - Odour threshold: Not determined.
  - pH-value: Not applicable.
- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: Undetermined.
- Pour point: < -50 °C (< -58 °F)
- Flash point: > 150 °C (> 302 °F)
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature: > 200 °C (> 392 °F)
- Decomposition temperature: Not determined.
- Danger of explosion: Product is not explosive. However formation of explosive air/vapour mixtures above the flash point or in case of strong misting is possible.
- Explosion limits: Not determined.
  - Lower:
  - Upper:
- Vapor pressure: Not determined.
- Density at 15 °C (60 °F): 0.80 g/cm³ (6.676 lbs/gal)
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with Water: Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Kinematic at 40 °C (104 °F): 5.5 mm²/s
10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Incompatible materials: Strong oxidizing agents
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    - Oral LD50 > 5000 mg/kg (rat)
    - Dermal LD50 > 3000 mg/kg (rabbit)
    - Inhalative LC50 / 4h 1.17 mg/l (rat)
  - Primary irritant effect:
    - on the skin: Repeated/long exposure may cause skin dryness and in consequence skin irritations.
    - on the eye: No irritating effect.
    - Sensitization: No sensitizing effects known.
  - Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:
    - Harmful

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer) None of the ingredients is listed.
  - NTP (National Toxicology Program) None of the ingredients is listed.
  - OSHA-Ca (Occupational Safety & Health Administration) Harmful by inhalation.

12 Ecological information

- Aquatic toxicity:
  - LL50 / 96h > 1000 mg/l (Oncorhynchus mykiss)
  - NOEC / 21d 125 mg/l (Daphnia magna)

- Acute ecotoxicity:
  - EL50 / 72h > 1000 mg/l (Scenedesmus)

- Persistence and degradability: Not easily biodegradable
- Bioaccumulative potential: No further relevant information available.
- Ecotoxic effects:
- Behavior in sewage processing plants: The product can be mechanically separated.

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- European waste catalogue
  - 12 01 07 mineral-based machining oils free of halogens (except emulsions and solutions)
  - 15 01 10* packaging containing residues of or contaminated by dangerous substances

- For the product: 12 01 07

- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.
14 Transport information

- **UN-Number**
  - DOT, IMDG, IATA: Void
  - ADR: Void

- **UN proper shipping name**
  - DOT, ADR, IMDG, IATA: Void

- **Transport hazard class(es)**
  - DOT, IMDG, IATA: Void
  - ADR: Void

- **Environmental hazards:**
  - Marine pollutant: No
  - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
  - Transport/Additional information: Not dangerous according to the above specifications.
  - ADR: Void
  - Excepted quantities (EQ): Void
  - Limited quantities (LQ): Void
  - Transport category: Void
  - Tunnel restriction code: Void
  - IMDG: Void
  - IATA: Void

15 Regulatory information

- **Sara**
  - Section 355 (extremely hazardous substances):
    - None of the ingredients is listed.
  - Section 313 (Specific toxic chemical listings):
    - None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**
  - All ingredients are listed.

- **Proposition 65**
  - Chemicals known to cause cancer:
    - None of the ingredients is listed.
  - Chemicals known to cause reproductive toxicity for females:
    - None of the ingredients is listed.
  - Chemicals known to cause reproductive toxicity for males:
    - None of the ingredients is listed.
  - Chemicals known to cause developmental toxicity:
    - None of the ingredients is listed.

- **Cancerogeneity categories**
  - EPA (Environmental Protection Agency)
    - None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    - See section 8 for information.

- **AGW (German Maximum Workplace Concentration)**
  - 68649-11-6, 1-Decene, Dimer, Hydrogenated: 5 mg/m³

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  - None of the ingredients is listed.
Product name: Einpressfluid OH 723

· OSHA-Ca (Occupational Safety & Health Administration)
  Harmful by inhalation.
  68649-11-6  1-Decene, Dimer, Hydrogenated
  See also Section 11.

16 Other information

- This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Reasons for alterations
  General revision.

- Relevant phrases
  H304 May be fatal if swallowed and enters airways.
  H332 Harmful if inhaled.
  R20 Harmful by inhalation.
  R65 Harmful: may cause lung damage if swallowed.

- Department issuing MSDS:
  Department of Research & Development

- Date of preparation / last revision
  09/12/2014 / 5

- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  VOC: Volatile Organic Compounds (USA, EC)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  NOEC: no observed effect concentrations
  CAS: Chemical Abstracts Service (division of the American Chemical Society)

* Data compared to the previous version altered.