Safety Data Sheet
acc. to OSHA HCS

Printing date 09/12/2014 *Version 6* *Reviewed on 09/12/2014*

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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
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· **Information department:** Department of research and development
+49-(0)711-16863-72
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· **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

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2 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of synthetic aliphatic hydrocarbons.

· **Dangerous components:**

68649-11-6	1-Decene, Dimer, Hydrogenated	Xn R20-65 Asp. Tox. 1, H304; Acute Tox. 4, H332	50-100%

· **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).

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3 Hazard(s) identification

· **Classification of the substance or mixture**
· **Information concerning particular hazards for human and environment:** 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)

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· **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

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4 First-aid measures

· **General information:** Remove any clothing soiled by the product.
In case of occuring 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.

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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.

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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.

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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.

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· **Further information about storage conditions:** Protect from heat, direct sunlight and UV-rays.
Store in cool, dry conditions in well sealed receptacles.
Storage stability under the described conditions: 24 months.
· **Specific end use(s)** No further relevant information available.

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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.
· **Personal protective equipment:**
· **General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
· **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)
These statements are based on laboratory test methods which could not simulate working conditions exactly. The responsibility rests with the end user for choosing the right gloves for his application.
· **Eye protection:** Goggles recommended during refilling.
· **Body protection:** Protective work clothing

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9 Physical and chemical properties

· **General Information**
· **Appearance:**
Form: Fluid
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:**
Lower: Not determined.
Upper: Not determined.

· **Vapor pressure:** Not determined.

· **Density at 15 °C (59 °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

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· **Solvent content:**
VOC (EC) None
VOC (California) None
· **Other information** Oxidising properties: not determined.

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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.

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11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
68649-11-6 1-Decene, Dimer, Hydrogenated		
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.

See also Section 15.

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12 Ecological information

· **Aquatic toxicity:**	
68649-11-6 1-Decene, Dimer, Hydrogenated	
LL50 / 96h	> 1000 mg/l (Oncorhynchus mykiss)
NOEC / 21d	125 mg/l (Daphnia magna)

· **Acute ecotoxicity:**	
68649-11-6 1-Decene, Dimer, Hydrogenated	
EL50 / 72h	> 1000 mg/l (Scenedesmus)

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

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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.

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Waste disposal key: 15 01 10

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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**
· **Class** Void

· **ADR**
· **Class** Void
· **Label** Void.

· **Packing group**
· **DOT, IMDG, IATA** Void
· **ADR** Void.

· **Environmental hazards:**
· **Marine pollutant:** No

· **Special precautions for user** Not applicable.

· **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**
· **Excepted quantities (EQ):** Void
· **Limited quantities (LQ)** Void.
· **Transport category** Void.
· **Tunnel restriction code** Void.

· **IMDG** Void.

· **IATA** Void.

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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.

· **Cancerogenity 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.

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

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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.**