

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product No.: 10047

**1.1 BRANDNAME:** INDUOIL HL 42**1.2 Use of the Substance/Preparation**

Minimum Quantity Lubrication Fluid [MQL].

**1.3 Supplier:** MENZEL METALLCHEMIE GMBH**Address:** IM GEWERBEPARK 14

D-73329 KUCHEN

**Phone-No.:** (+49)-7331-9878-0**Telefax-No.:** (+49)-7331-82946**E-Mail:** info@menzel-metallchemie.de**Homepage:** www.menzel-metallchemie.de**Department for Information:** UMWELT UND PRODUKTSICHERHEIT**1.4 Emergency Call:****Phone-No.:** 0049-(0)7331-3019866**Telefax-No.:****MSDS-History: Version V 4.01 dated 14.01.2011****replaces Version V 4.00 dated 01.14.2008****2. HAZARD IDENTIFICATION****2.1 Hazards to man:**

In case the general instructions of good occupational hygiene are respected and any breathing of product vapours and product dusts is avoided the handling of the product does not imply a special health hazard. Prolonged/repeated contact with the product is weakly irritating to the eyes and the skin.

**2.2 Hazards to environment:**

In case of strict observance of appropriate disposal methods [see section 13] the product presents no special risk to the environment. Water Hazard Classification [Germany]: slightly water hazardous [WGK 1].

**2.3 Adverse physico-chemical effects:**

The product is combustible. Possible formation of explosible mixtures with air. Exotherm reactions may occur certain chemicals [see section 10].

**Information given herein is to the best of our knowledge and is only related to the product as delivered in order to give a complete review of safety aspects accurate as of the date indicated. All data given are never meant to guarantee product properties. It is the sole responsibility of the user to take all precautions required in handling the product.**

**BRANDNAME:** INDUOIL HL 42

**Supplier:** MENZEL METALLCHEMIE GMBH

**Address:** IM GEWERBEPARK 14 D-73329 KUCHEN

### 3. INFORMATION ON COMPOSITION

Preparation/formulation based on the following components: vegetable oils and inert additives.

#### 3.1 The Product Contains the Following Relevant Components:

(1) not concerned

#### 3.2 Characterization of Components listed in Section 3.1 [ for Exposure Limits see Section 8.1 ]

CAS	EEC-No	Index No.	Warnings	R-Phrases
(1)				

#### 3.3 CMT-Categorization of Components Listed in Section 3.1

EEC Category				
Carc	Muta	RF	RE	EEC Guideline
(1)				

**BRANDNAME:** INDUOIL HL 42

**Supplier:** MENZEL METALLCHEMIE GMBH

**Address:** IM GEWERBEPARK 14 D-73329 KUCHEN

## 4. FIRST AID MEASURES

### 4.1 General Instructions

General measures are not necessary.

### 4.2 In Case of Eye Contact

After separating the eyelids immediately flush eyes thoroughly with plenty of water [at least for 5 minutes]. In case eye irritation persists, consult an oculist.

### 4.3 In Case of Skin Contact

Remove contaminated clothing and shoes. Wash affected skin thoroughly and lasting with plenty of soap and water. In case of persisting irritation call in a physician.

### 4.4 In Case of Ingestion

Only in case the affected person is fully conscious, rinse out the mouth with plenty of water and make victim drink plenty of water [better physiological saline solution]. Guide affected person to medical treatment or call for medical assistance. Show the physician container or label.

### 4.5 In Case of Inhalation

Guide affected person to fresh air. Ease clothes. Keep free the respiratory ways. In case inconvenience persists seek medical advice.

### 4.6 Notes to the Physician

There is no specific information available about the product. Treat affected person according to symptoms developing.

## 5. FIRE FIGHTING MEASURES

### Suitable Extinguishing Media:

Carbon dioxide, powder and foam extinguisher, water spray.

### Not to be Used for Safety Reasons:

Water jet.

### Specific Exposure Hazards Arising from the Substance or its Combustion Products:

The product is combustible. Possible formation of explosible mixtures with air.

Properties of combustion gases/vapours: toxic - corrosive.

### Specific Protective Equipment and Measures Required for Fire-Fighting:

Cool containers exposed to the fire with water spray. Protective equipment in the event of fire: self-contained breathing apparatus and suitable chemical protection clothing. Prevent fire-fighting water from entering surface water or groundwater. Collect contaminated extinguishing water and dispose off according to the local restrictions [see section 13].

## 6. ACCIDENTAL RELEASE MEASURES

Person-related precautionary measures:

Wear suitable protective equipment [see section 8.3]. Avoid contact with substance.

General precautionary measures:

Secure undamaged small containers [tins, cartouches, tubes] in a well protected place. In case of big spill caused by damaged small containers: Ensure supply of fresh air in enclosed rooms. Close all drains. Contain the spillage by bunding with universal binder and/or sand.



**BRANDNAME:** INDUOIL HL 42

**Supplier:** MENZEL METALLCHEMIE GMBH

**Address:** IM GEWERBEPARK 14 D-73329 KUCHEN

## 6. ACCIDENTAL RELEASE MEASURES [CONTINUED]

Procedures for cleaning/absorption:

Pump off liquid substance in suitable containers respecting the general instructions of safety. Absorb residues using universal binder and/or sand. Mob up spill in suitable container, forward material and container for disposal. Clean affected area with water and surfactant.

Environmental-protection measures:

In case of environmental pollution inform fire brigade or police.

## 7. HANDLING AND STORAGE

### 7.1 Handling

Precautions for safe handling: Use product only in well ventilated areas/workplaces. Avoid contact with substance. Do not smoke during work.

Advice on technical measures: Install fire sprinkler/antistatic equipment. For non-professional user: none.

Further specific requirements: Provide at the working place: eyewash fountains. Comply with the instructions for use [refer to technical data sheet].

### 7.2 Storage

Store product only in tightly closed original container in a cool, well-ventilated place. During decanting and refilling processes avoid spills and splashes.

Specific design for storage rooms: dry - frost protected - safe. Spillage containers and impermeable ground. Suitable ventilation systems.

Comply with national regulatory directives: Storage of water hazardous substances.

### 7.3 Specific Uses

Not suitable for the application as circular and machine lubrication. Further information: refer to technical data sheet.

**BRANDNAME:** INDUOIL HL 42

**Supplier:** MENZEL METALLCHEMIE GMBH  
**Address:** IM GEWERBEPARK 14 D-73329 KUCHEN

**8. EXPOSURE CONTROL AND PERSONAL PROTECTIVE EQUIPMENT**

**8.1 Components with an Exposure Limitation**

a) Exposure Limits Related to the Product

Source	CAS	Name
--------	-----	------

TWA	ml/m <sup>3</sup>	mg/m <sup>3</sup>	Cat.	STEL	ml/m <sup>3</sup>	mg/m <sup>3</sup>	Refer	Notes
-----	-------------------	-------------------	------	------	-------------------	-------------------	-------	-------

b) Exposure Limits of Components as Listed in Section 3.1

The preparation/formulation does not contain any component imposed with an occupational exposure limit.

**8.2 Environmental Exposure Controls**

environmentally relevant limit values: no data available.



**BRANDNAME:** INDUOIL HL 42

**Supplier:** MENZEL METALLCHEMIE GMBH  
**Address:** IM GEWERBEPARK 14 D-73329 KUCHEN

## 8.3 Personal Hygiene and Personal Protective Equipment

Respect the general regulations of industrial working hygiene as stated by the responsible professional association. Avoid contact with substance. When using do not eat, drink or smoke. Wash your hands after work.

**Respiratory:** Respiratory protection is not necessary.  
Only in case of vapour/spray formation:  
Respiratory protection mask with combinets filter EN 3181 A3-P3  
Comply with national regulatory directives: Time limitation for the use of respiratory masks.

**Eye:** Safety goggles with side-protection.

**Hand:** not obligatory but recommended:  
Impervious safety gloves [protection index 3 ; breakthrough time according to EN 374: > 60 min]. Glove material: butyl rubber - plastic - PVC

**Body:** Working clothes.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**State:** [at 20 °C] liquid                      **Colour:** brown                      **Odour:** characteristic

### 9.1 Change in Physical State

**Boiling Point** > 300 °C  
°C  
°C

**9.2 Density** ( 20 °C ) 0.930 g/cm<sup>3</sup>  
( °C ) g/cm<sup>3</sup>

**Bulk Density** ( 20 °C ) not applicable kg/m<sup>3</sup>

**9.3 Vapour Pressure** ( 20 °C ) neglectable hPa  
( °C ) hPa

**9.4 Viscosity** ( 40 °C ) 39 mm<sup>2</sup>/s  
( °C )

**9.5 Water Solubility** ( 20 °C ) practically insoluble g/l  
**Fat Solubility** soluble in the commonly used organic solvents

**9.6 pH-Value** ( 20 °C ) not applicable (at g/l H<sub>2</sub>O)

**9.7 Flashpoint** > 200 °C Cleveland [ISO 2592]

**9.8 Auto-ignition temperature** °C no data available

**9.9 Exposure Limits** lower: - upper: - no data available

The product is a non-oxidizing material [Directive 67/548/EEC, Annex A.16].

**9.10 Partition coefficient [n-octanol/water; log Pow]** no data available

**9.11 Further Data** VOC-Share: not concerned [Lit 1].



**BRANDNAME:** INDUOIL HL 42

**Supplier:** MENZEL METALLCHEMIE GMBH

**Address:** IM GEWERBEPARK 14 D-73329 KUCHEN

## 10. STABILITY AND REACTIVITY

**Conditions to Avoid:**

The product is stable by appropriate use at ambient temperatures.

Thermal influence [decomposition].

**Products to Avoid:**

strong oxidizing agents [reaction].

**Hazardous Decomposition Products:**

Hazardous combustion gases and/or vapours: carbon monoxide and carbon dioxide - nitrogen oxides - sulfur oxides.

## 11. TOXICOLOGICAL INFORMATION

In case the general instructions of good occupational hygiene are respected and any breathing of product vapours and product dusts is avoided the handling of the product does not imply a special health hazard. Prolonged/repeated contact with the product is weakly irritating to the eyes and the skin. [Lit 1]

[acute toxicity]

LD(50)oral/ rat: > 5000 mg/kg [calculated, Lit 1].

## 12. ECOLOGICAL INFORMATION

Suitable data for the product relating to the ecotoxicity are not available. In case of strict observance of appropriate disposal methods [see section 13] the product presents no special risk to the environment. Possible impact on sewage treatment plants: no impact of a probable damage.

Water Hazard Classification [Germany]: slightly water hazardous [WGK 1].

The product is practically insoluble in water. The product is biodegradable. [> 95 %]

[Lit 1]

Do not release the product in the environment. Decant and purify polluted waste water before its release into the drains.

**BRANDNAME:** INDUOIL HL 42

**Supplier:** MENZEL METALLCHEMIE GMBH  
**Address:** IM GEWERBEPARK 14 D-73329 KUCHEN

### 13. DISPOSAL CONSIDERATIONS

Dispose substance/preparation [landfilling - category: commercial wastes]. Dilute substance/preparation in an inflammable solvent and incinerate [authorised chemical incinerator].

Separate different packaging material. Clean container/drums with a suitable organic solvent. Incinerate/recycle organic solvents. Appropriate methods of disposal for container: incineration/recycling. [landfilling - category: commercial wastes/landfilling - category: municipal wastes].

List of hazardous waste [Directive 75/442/EEC]: classification has to be carried out in own responsibility.

[Recommendation]:

**EEC Waste Code:**  
 13 02 07 readily biodegradable engine, gear and lubricating oils  
**EEC Waste Code:**

**EEC Waste Code:**

### 14. TRANSPORT INFORMATION

Preparation/formulation: no dangerous good.

#### 14.1 Transport Regulations Road

<b>UN-No.:</b> 0000	RID/ADR: -	Pack-Group: -
Danger-Code: -	Label: -	Limited. Quantity: -
Shipping Name: no dangerous good		
Hazard caused by:		

#### 14.2 Transport Regulations Sea

<b>UN-No.:</b> 0000	IMO/IMDG-Class: -	Limited Quantity: -
EMS-No.: -	MFAG-No.: -	MarPol: - ADNR: -
Pack-Group: -	Label: -	
Shipping Name: no dangerous good		
Hazard caused by:		

#### 14.3 Transport Regulations Air

<b>UN-No.:</b> 0000	ICAO/IATA-Class: -	Limited. Quantity: -
Label: -		Pack-Group: -
Passenger Aircraft/Quantity: -	Cargo Aircraft/Quantity: -	
Shipping Name: no dangerous good		
Hazard caused by:		





**BRANDNAME:** INDUOIL HL 42

**Supplier:** MENZEL METALLCHEMIE GMBH

**Address:** IM GEWERBEPARK 14 D-73329 KUCHEN

## 15.1 REGULATORY INFORMATION

**Warning Sign(s):**

**Labelling [Directives 67/548/EEC and 1999/45/EC]:** not concerned.

**R-Phrase(s):** none

**S-Phrase(s):** none

Additional labelling [Directives 67/548/EEC and 1999/45/EC]: not applicable.

Preparation and/or components are listed in: European Inventory of Existing Commercial Chemical Substances Listing [EINECS/ELINCS]

### Product Classification

Water-Hazard Classification: WGK 1 [Lit 1].



**BRANDNAME:** INDUOIL HL 42

**Supplier:** MENZEL METALLCHEMIE GMBH

**Address:** IM GEWERBEPARK 14 D-73329 KUCHEN

## ADDITIONAL INFORMATION

### 16.1 References

[Lit 1]: Unpublished producer results.

Abbreviations:

nc: not classified.

### 16.2 The following Sections of the MSDS compared to Version dated 01.03.2006 has been revised:

Adaption to Regulation EC 1907/2006 [Reach]. All sections are concerned.

### 16.3 R Phrases Referring to Headings 2 and 3 :

R999 - none.