

# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Date of the previous version: 2013-03-07 Revision Date: 2013-01-28

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## Innocut Mikro 461

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

#### 1.1. Product identifier

Product name innocut Mikro 461

Number 03-101...

Pure substance/mixture Mixture

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

Identified uses Lubricating grease.Non Water-Mixed Metal Work Oil

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Innotech Vertriebs GmbH, Junkersstrasse 16, D-93055 Regensburg (Germany)

Phone: 0049-(0)941-700878, Fax: 0049-(0)941-704660

E-Mail: info@innotech-r.de

#### 1.4. Emergency telephone number

Phone: 0049-(0)941-700878

### 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

This preparation is not classified as dangerous according to 1999/45/EC.

#### 2.2. Label elements

Labelled according to: Not classified/No labelling required

R-phrases(s)

none

S-phrases(s)

none

#### 2.3. Other hazards

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixture

Chemical characterization (preparation)

Description: Hydrocarbon-based synthetic oil formulation

Additional information Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

For the full text of the R-phrases mentioned in this Section, see Section 16

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

#### 4.1. Description of first-aid measures

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin contact Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse.

High pressure jets may cause skin damage. Take victim immediately to hospital.

Inhalation Move to fresh air

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

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

Eye contact	Not classified.
Skin contact	Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
Inhalation	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptomatically
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## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Suitable Extinguishing Media	Carbon dioxide (CO <sub>2</sub> ). ABC powder. Foam. Water spray or fog.
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Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire
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### 5.2. Special hazards arising from the substance or mixture

Special Hazard	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.
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### 5.3. Advice for fire-fighters

Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit
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Other information	Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

General Information	Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
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### 6.2. Environmental precautions

General Information	Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
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### 6.3. Methods and materials for containment and cleaning up

Methods for cleaning up	Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Collect free product with suitable mechanical means. Keep in suitable, closed containers for disposal.
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### 6.4. Reference to other sections

Personal Protective Equipment	See Section 8 for more detail
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Waste treatment	See section 13
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## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Advice on safe handling	When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.
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**Prevention of fire and explosion** Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.

**Hygiene measures** Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

## 7.2. Conditions for safe storage, including any incompatibilities

### Technical measures/Storage

**Conditions** Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

**Materials to Avoid** Strong oxidizing agents.

## 7.3. Specific end uses

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

**Exposure limits** -

### 8.2. Exposure controls

#### Occupational Exposure Controls

**Engineering Measures** Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

#### Personal Protective Equipment

**General Information** If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

**Respiratory protection** None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 141). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

**Eye Protection** If splashes are likely to occur, wear: Safety glasses with side-shields.

**Skin and body protection** Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

**Hand Protection** Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

#### Environmental exposure controls

**General Information** The product should not be allowed to enter drains, water courses or the soil

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Color	light yellow
Physical State @20 °C	liquid
Odor	Characteristic

Property	Values	Remarks	Method
ph		Not applicable	
Boiling point/boiling range		Not applicable	

Flash point	> 175 °C	
Evaporation rate		No information available
Flammability Limits in Air		No information available
Vapor Pressure		No information available
Vapor density		No information available
Density	~ 850 kg/m <sup>3</sup>	@ 20 °C
Water solubility		Insoluble
Solubility in other solvents		No information available
logPow		No information available
Autoignition temperature	> 250 °C	ASTM E659
Viscosity, kinematic	21 mm <sup>2</sup> /s	@ 40 °C
Explosive properties	Not explosive	
Oxidizing Properties	Not applicable	
Possibility of hazardous reactions	Not applicable	

## 9.2. Other information

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

### 10.2. Chemical stability

Stability Stable under recommended storage conditions

### 10.3. Possibility of hazardous reactions

Hazardous Reactions None under normal processing

### 10.4. Conditions to Avoid

Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

### 10.5. Incompatible Materials

Materials to Avoid Strong oxidizing agents.

### 10.6. Hazardous Decomposition Products

Hazardous Decomposition Products None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

**Skin contact** Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.

**Eye contact** Not classified.

**Inhalation** Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Ingestion** Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Acute toxicity Component Information

Sensitization

Sensitization Not classified as a sensitizer.

Specific effects

**Carcinogenicity** This product is not classified carcinogenic.

**Mutagenicity** This product is not classified as mutagenic.

**Reproductive toxicity** This product does not contain any known or suspected reproductive hazards.

**Repeated Dose Toxicity**

**Subchronic toxicity** No information available.

**Target Organ Effects (STOT)**

**Target Organ Effects (STOT)** No information available.

**Other information**

**Other adverse effects** Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

## **12. ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

Not classified.

#### **Acute aquatic toxicity Product Information**

No information available.

#### **Acute aquatic toxicity Component Information**

No information available.

#### **Chronic aquatic toxicity Product Information**

No information available

#### **Chronic aquatic toxicity Component Information**

No information available.

#### **Effects on terrestrial organisms**

No information available.

### **12.2. Persistence and degradability**

#### **General Information**

No information available.

### **12.3. Bioaccumulative potential**

#### **Product Information**

No information available

#### **logPow**

No information available

#### **Component Information**

### **12.4. Mobility in soil**

#### **Soil**

Given its physical and chemical characteristics, the product has no soil mobility.

#### **Air**

Loss by evaporation is limited.

#### **Water**

The product is insoluble and floats on water.

### **12.5. Results of PBT and vPvB assessment**

#### **PBT and vPvB assessment**

No information available.

### **12.6. Other adverse effects**

#### **General Information**

No information available.

## **13. DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

#### **Waste from Residues / Unused**

##### **Products**

Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal

#### **EWC Waste Disposal No.**

The following Waste Codes are only suggestions: 12 01 10. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## **14. TRANSPORT INFORMATION**

#### **ADR/RID**

Not regulated

#### **IMDG/IMO**

Not regulated

#### **ICAO/IATA**

Not regulated

#### **ADN**

Not regulated

## **15. REGULATORY INFORMATION**

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

### European Union

#### International Inventories

EINECS/ELINCS	-
TSCA	-
DSL	-
ENCS	-
IECSC	-
KECL	-
PICCS	-
AICS	-
NZIoC	-

#### Legend

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

### Further information

## 15.2. Chemical Safety Assessment

**Chemical Safety Assessment** No information available

## 15.3. National regulatory information

### France

- Avoid exceeding occupational exposure limits (see section 8).
- FR - Art. R. 4624-19 to 4624-20 and decree of november, 7th 1977 (Special medical surveillance).

Occupational Illnesses      Applicable table(s) n° 36  
Illnesses recognized as professionnall illnesses (annex to article D461-1 of national health insurance code): 601

## 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

Not applicable

**Abbreviations, acronyms**

Legend Section 8

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

Revision Date: 2012-02-22

End of the safety data sheet

Revision Note \*\*\* Indicates updated section

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006