



SAFETY DATA SHEET

Issuing Date: 04-24-2015

Revision Date: 04-29-2015

Version 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.

Product identifier

Product Code(s): 73014683-M
Product Name CINDOLUBE 4683
Product Registration number
Denmark -
Norway -
Sweden -
EC # Not Applicable
Pure substance/preparation

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

Recommended use Metalworking fluid, Forming, Drawing

Uses advised against Any other purpose.

1.3. Details of the supplier of the safety data sheet

Manufacturer, Importer, Supplier

Houghton plc
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Trafford Park
Manchester
M17 1AF
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E-mail: MSDS@uk.houghtonglobal.com

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13, Prirechnaya St.
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Houghton Kimya San. A.Ş
Kosuyolu Mah
Asma Dall Sok
No: 1434718 Kadıköy
İstanbul
Türkiye
Phone Number: +90 216 325 15 15

1.4. Emergency telephone number

3E Company: (+)1 760 476 3961 (Code 333938)

| | |
|-----------------------|--|
| Austria | Notfall-Telefonnummer +43 (0) 1 406 4343 |
| Bulgaria | Телефон за спешни случаи +359 2 9154 409 |
| Switzerland | 145; +41 (0) 44 254 51 51 |
| Czech Republic | Telefonní číslo pro naléhavé situace +420 224 919 293 |
| Denmark | Ring til Giftlinjen på +45 82 12 12 12 |
| Finland | Hätäpuhelinumero +358 09 471 977 |
| France | Numéro d'appel d'urgence +33 (0)1 45 42 5959 |
| Hungary | Díjmentesen hívható zöld szám +36 80 20 11 99 |
| Ireland | Emergency telephone number +353 01 809 2166 |
| Netherlands | Telefoonnummer voor +31 30 274 88 88 |
| Norway | Nødnummer +47 22 59 13 00 |
| Poland | 112 |
| Portugal | Número de telefone de emergência +351 808 250 143 |
| Romania | Număr de telefon care poate fi apelat în caz de urgență +021 318 36 06 (08:00-15:00) |
| Spain | Número de teléfono de emergencia +34 91 562 0420 |
| Sweden | Telefonnummer för nödsituationer +46 08 33 12 31 (09:00-17:00) |
| Turkey | (+)1 760 476 3959 (Code 333938) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

| | |
|---------------------------------|---------------------|
| Chronic aquatic toxicity | Category 3 - (H412) |
|---------------------------------|---------------------|

2.2. Label Elements

Hazard Statements

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

No information available.

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 18.7 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 18.7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 18.7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 18.7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

SECTION 3: Composition/information on ingredients

3.1. Substances / 3.2. Mixtures

This product is a mixture. Health hazard information is based on its ingredients

| Chemical Name | EC-No | CAS-No | Weight % | Classification (Reg. 1272/2008) | REACH Registration Number |
|---|-----------|----------|------------|--|---|
| Highly refined base oil (Viscosity >20.5 cSt @40°C) | - | - | 50% - 100% | ** | - |
| 2,6-Di-tert-butyl-p-cresol | 204-881-4 | 128-37-0 | 0% - 1% | Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | 01-2119565113-46-xxx x 01-2119480433-40-xxx x 01-2119555270-46-xxx x |

Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346 See Section 15 for additional information on base oils.

** Substances for which there are Community workplace exposure limits

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first-aid measures

| | |
|-----------------------------------|---|
| General advice | If symptoms persist, call a physician. |
| Inhalation | Move to fresh air. |
| Skin contact | Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. |
| Ingestion | Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. |
| Protection of First-aiders | Use personal protective equipment. |

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

Main Symptoms None

4.3. Indication of immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment; Use CO2, dry chemical, or foam, Water spray or fog, Cool containers / tanks with water spray

Extinguishing media which shall not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Special Hazard

In the event of fire and/or explosion do not breathe fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). This material creates a fire hazard because it floats on water. Thermal decomposition can lead to release of irritating gases and vapors. Water runoff can cause environmental damage.

Hazardous Decomposition Products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide

5.3. Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ensure adequate ventilation.

Advice for non-emergency personnel

Material can create slippery conditions.

Advice for emergency responders For personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

After cleaning, flush away traces with water.

6.4. Reference to other sections

See Section 8/12/13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition.

7.2. Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

Recommended Shelf Life

No information available.

Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

7.3. Specific end uses**Specific use(s)**

Metalworking fluid, Forming, Drawing

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

| Chemical Name | European Union | United Kingdom | France | Spain |
|--|----------------|---|---------------------------|---|
| Highly refined base oil (Viscosity >20.5 cSt @40°C) | | | | VLA-EC: 10 mg/m ³ VLA-ED: 5 mg/m ³ |
| 2,6-Di-tert-butyl-p-cresol | | STEL: 30 mg/m ³ TWA: 10 mg/m ³ | VME: 10 mg/m ³ | |

| Chemical Name | Germany | Italy | Portugal | The Netherlands |
|----------------------------|---|-------|--------------------------|-----------------|
| 2,6-Di-tert-butyl-p-cresol | MAK: 20 mg/m ³ Ceiling / Peak: 40 mg/m ³ Skin | | TWA: 2 mg/m ³ | |

| Chemical Name | Austria | Switzerland | Poland | Ireland |
|--|---------------------------|---------------------------|--------|--|
| Highly refined base oil (Viscosity >20.5 cSt @40°C) | | | | STEL: 10 mg/m ³ TWA: 5 mg/m ³ (Mist) |
| 2,6-Di-tert-butyl-p-cresol | MAK: 10 mg/m ³ | MAK: 10 mg/m ³ | | TWA: 10 mg/m ³ |

| Chemical Name | Finland | Denmark | Norway | Sweden |
|--|---|-------------------------------------|-------------------------------------|---|
| Highly refined base oil (Viscosity >20.5 cSt @40°C) | TWA: 5mg/m ³ (Öljysumu) | TWA: 1 mg/m ³ (Olietåge) | TWA: 1 mg/m ³ (Oljetåke) | LLV: 1 mg/m ³ STV: 3 mg/m ³ (Oljedimma) |
| 2,6-Di-tert-butyl-p-cresol | TWA: 10 mg/m ³ STEL: 20 mg/m ³ | TWA: 10 mg/m ³ | | |

| Chemical Name | Czech Republic | Hungary | Bulgaria | Romania |
|----------------------------|----------------|---------|---|---------|
| 2,6-Di-tert-butyl-p-cresol | | | STEL: 50.0 mg/m ³ TWA: 10.0 mg/m ³ | |

Workers Systemic toxicity

| Chemical Name | Long term - Oral exposure | Long term - Dermal exposure | Long term - Inhalation exposure | Short term - Oral Exposure | Short term - Dermal exposure | Short term - Inhalation exposure |
|----------------------------|---------------------------|-----------------------------|---------------------------------|----------------------------|------------------------------|----------------------------------|
| 2,6-Di-tert-butyl-p-cresol | | 8.3 mg/kg | 5.8 mg/m ³ | | | |

Workers Local effects

Consumers Systemic toxicity

| Chemical Name | Long term - Oral exposure | Long term - Dermal exposure | Long term - Inhalation exposure | Short term - Oral Exposure | Short term - Dermal exposure | Short term - Inhalation exposure |
|----------------------------|---------------------------|-----------------------------|---------------------------------|----------------------------|------------------------------|----------------------------------|
| 2,6-Di-tert-butyl-p-cresol | | 5 mg/kg | 1.74 mg/m ³ | | | |

Consumers Local effects**Predicted No Effect Concentration (PNEC)**

| Chemical Name | Fresh water | Sea water | Fresh water sediment | Sea sediment | Soil |
|----------------------------|-------------|-------------|----------------------|--------------|------------|
| 2,6-Di-tert-butyl-p-cresol | 1.29 mg/kg | 0.0004 mg/L | 1.29 mg/kg | | 1.04 mg/kg |

8.2. Exposure controls**Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment**Eye Protection**

Safety glasses with side-shields.

Hand Protection

Protective gloves. 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. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.

Skin and body protection

Long sleeved clothing.

Respiratory protection

No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hygiene measures

Regular cleaning of equipment, work area and clothing is recommended.

Environmental Exposure Controls

Do not allow material to contaminate ground water system.

Thermal hazards

None under normal use conditions

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Physical state @20°C**

liquid

Appearance

clear , amber

Odor

Slight

Odor Threshold

Not Applicable

PropertyValuesNote**pH**

Not applicable

Melting Point / Freezing Point

No information available.

Boiling point/boiling range

No information available.

Flash point

> 180 °C / > 356 °F

ASTM D 92

Evaporation rate

No information available

Flammability (solid, gas)

No information available

Flammability Limits in Air**upper flammability limit**

No information available.

Lower flammability limit

No information available.

Vapor pressure

No information available.

Vapor density

No information available.

Relative density

0.9000

g/cm³ @20°C

Solubility(ies)

Insoluble in water

Partition coefficient: n-octanol/water

Not Applicable

Autoignition temperature

No information available

Decomposition temperature

No information available

Viscosity, kinematic

> 140 cSt @ 40 °C

ASTM D 445

Explosive properties Not Applicable
Oxidizing Properties Not Applicable

9.2 Other information

Viscosity, kinematic (100°C) No information available
Pour point No information available
VOC Content No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal use conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use conditions

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition

10.5. Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

10.6. Hazardous decomposition products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects**Product Information - Principle Routes of Exposure**

Inhalation None known
Eye contact None known
Skin contact None known
Ingestion None known

Acute toxicity - Product Information

Product does not present an acute toxicity hazard based on known information.

Acute toxicity - Component Information

| Chemical Name | LD50 Oral (Rat) | LD50 Dermal (Rat/Rabbit) | LC50 Inhalation |
|---|--------------------|--------------------------|-----------------|
| Highly refined base oil (Viscosity >20.5 cSt @40°C) | >2000 mg/kg | >2000 mg/kg | |
| 2,6-Di-tert-butyl-p-cresol | 5000 mg/kg (Rat) | 5000 mg/kg (Rabbit) | |

| | |
|--|-------------|
| Skin corrosion/irritation | None known. |
| Serious eye damage/eye irritation | None known. |
| Sensitization | |
| Respiratory Sensitization | None known. |
| Skin sensitization | None known. |
| Germ Cell Mutagenicity | None known. |
| Carcinogenicity | None known. |
| Reproductive toxicity | None known. |
| Specific target organ systemic toxicity (single exposure) | None known |
| Specific target organ systemic toxicity (repeated exposure) | None known. |
| Aspiration hazard | None known. |

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|----------------------------|---|-----------------------------------|----------------------------|---|
| 2,6-Di-tert-butyl-p-cresol | 6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50 | 5: 48 h Oryzias latipes mg/L LC50 | | |

12.2. Persistence and degradability

The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

12.3. Bioaccumulative potential

No information available

| Chemical Name | log Pow |
|----------------------------|---------|
| 2,6-Di-tert-butyl-p-cresol | 4.17 |

12.4. Mobility in soil

The product is insoluble and floats on water.

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused Products

Dispose of as hazardous waste in compliance with local and national regulations

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other Data

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.

SECTION 14: Transport information

14.1. UN-Number

Not regulated

14.2. UN proper shipping name

Not regulated

14.3. Transport hazard class

Not regulated

14.4. Packing group

Not regulated

14.5. Environmental Hazards

None.

14.6. Special precautions for users

None.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

IMDG/IMO

Not regulated

ADR/RID

Not regulated

ICAO/IATA

Not regulated

SECTION 15: Regulatory information

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

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)
Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

Statutory Instruments: Control of Substances Hazardous to Health Regulations 2002. Chemicals (Hazard Information and Packaging) Regulations 2009.

Acts of Parliament: The Health and Safety at Work etc. Act 1974. Environment Protection Act 1990.
 Regulation on classification, labeling, of hazardous chemicals (2002 changing 2005). Appendix VI to Regulation on classification, labeling etc. of hazardous chemicals (2002 changing 2010), list of hazardous substances (as amended). Guidelines for submission and declaration of hazardous waste (2009). Transport of dangerous goods: ADR, RID, IMDG and IATA. Administrative norms for pollution of the atmosphere, 2009.
 Workplace exposure limits (EH40)

WGK Classification

Hazard to water/Class 2

The highly refined base oil (Viscosity >20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

| Chemical Name | CAS-No | EC-No | REACH Registration Number |
|--|-------------|-----------|---------------------------|
| Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated | 101316-72-7 | 309-877-7 | 01-2119489969-06-xxxx |
| Lubricating oils (petroleum), used, noncatalytically refined | 101316-73-8 | 309-878-2 | 02-2119822310-56-xxxx |
| Distillates (petroleum), solvent-refined heavy paraffinic | 64741-88-4 | 265-090-8 | |
| Residual oils (petroleum), solvent-refined | 64742-01-4 | 265-101-6 | 01-2119488707-21-xxxx |
| Extracts (petroleum), residual oil solvent | 64742-10-5 | 265-110-5 | 01-2119488175-30-xxxx |
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | 265-155-0 | 01-2119467170-45-xxxx |
| Distillates (petroleum), hydrotreated light naphthenic | 64742-53-6 | 265-156-6 | |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | 265-157-1 | 01-2119484627-25-xxxx |
| Residual oils (petroleum), hydrotreated | 64742-57-0 | 265-160-8 | 01-2119489287-22-xxxx |
| Lubricating oils (petroleum), hydrotreated spent | 64742-58-1 | 265-161-3 | |
| Residual oils (petroleum), solvent-dewaxed | 64742-62-7 | 265-166-0 | 01-2119480472-38-xxxx |
| Distillates (petroleum), solvent-dewaxed heavy, paraffinic | 64742-65-0 | 265-169-7 | 01-2119471299-27-xxxx |
| Paraffin oils (petroleum), catalytic dewaxed heavy | 64742-70-7 | 265-174-4 | 01-2119487080-42-xxxx |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 72623-86-0 | 276-737-9 | 01-2119474878-16-xxxx |
| Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based | 72623-87-1 | 276-738-4 | 01-2119474889-13-xxxx |
| Lubricating oils | 74869-22-0 | 278-012-2 | |
| Paraffin oils | 8012-95-1 | 232-384-2 | |
| White mineral oil (petroleum) | 8042-47-5 | 232-455-8 | 01-2119487078-27-xxxx |

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet**

Repr.-Reproduction toxicity
 Asp. Tox. - Aspiration Toxicity
 Acute Tox. - Acute Toxicity
 Aquatic Acute - Acute Aquatic Toxicity
 Aquatic Chronic - Chronic Aquatic Toxicity
 Eye Dam. - Eye Damage
 Eye Irrit. - Eye Irritation
 Skin Corr. - Skin Corrosion
 Skin Irrit. - Skin Irritation
 Skin Sens. - Skin Sensitizer
 Resp. Sens. - Respiratory Sensitizer
 STOT SE - Specific target organ systemic toxicity (Single exposure)
 STOT RE - Specific target organ systemic toxicity (repeated exposure)
 VOC - Volatile organic compounds

Full text of H-Statements referred to under sections 2 and 3

| | |
|---|--|
| <ul style="list-style-type: none"> • H224 - Extremely flammable liquid and vapor • H225 - Highly flammable liquid and vapor • H226 - Flammable liquid and vapor • H270 - May cause or intensify fire; oxidizer • H271 - May cause fire or explosion; strong oxidizer • H272 - May intensify fire; oxidizer • H290 - May be corrosive to metals • H300 - Fatal if swallowed • H301 - Toxic if swallowed • H302 - Harmful if swallowed • H304 - May be fatal if swallowed and enters airways • H310 - Fatal in contact with skin • H311 - Toxic in contact with skin • H312 - Harmful in contact with skin • H314 - Causes severe skin burns and eye damage • H315 - Causes skin irritation • H317 - May cause an allergic skin reaction • H318 - Causes serious eye damage • H319 - Causes serious eye irritation • H330 - Fatal if inhaled • H331 - Toxic if inhaled • H332 - Harmful if inhaled • H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled • H335 - May cause respiratory irritation • H336 - May cause drowsiness or dizziness • H340 - May cause genetic defects | <ul style="list-style-type: none"> • H341 - Suspected of causing genetic defects • H350 - May cause cancer • H351 - Suspected of causing cancer • H360 - May damage fertility or the unborn child • H361 - Suspected of damaging fertility or the unborn child • H362 - May cause harm to breast-fed children • H370 - Causes damage to organs • H371 - May cause damage to organs • H372 - Causes damage to organs through prolonged or repeated exposure • H373 - May cause damage to organs through prolonged or repeated exposure • H400 - Very toxic to aquatic life • H410 - Very toxic to aquatic life with long lasting effects • H411 - Toxic to aquatic life with long lasting effects • H412 - Harmful to aquatic life with long lasting effects • H413 - May cause long lasting harmful effects to aquatic life. • H360Df - May damage the unborn child. Suspected of damaging fertility • H360D - May damage the unborn child • H360FD - May damage fertility. May damage the unborn child • H360F - May damage fertility • H361d - Suspected of damaging the unborn child • H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child • H361f - Suspected of damaging fertility • EUH066 - Repeated exposure may cause skin dryness or cracking • EUH210 - Safety data sheet available on request. • EUH208 - May produce an allergic reaction |
|---|--|

Exposure scenario

No information available.

Issuing Date: 04-24-2015**Revision Date:** 04-29-2015**Revision Note****Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.