

## 1 Identification of substance

- **Product details**
- **Trade name:** Distil
- **Article number:** 2237-AA-001
- **Application of the substance / the preparation**  
Distillation anti-foaming agent for organic solvents. Usable in perc and hydrocarbon solvents.
- **Manufacturer/Supplier:**  
Chemische Fabrik Kreussler & Co. GmbH  
Postfach 120454  
D-65082 Wiesbaden
- **Information department:**  
Abteilung TQM  
Herr Vogel  
+49 (0) 611 9271-175

## 2 Composition/Data on components

- **Chemical characterization:**
- **CAS No. Description**  
alkylating and naphthening hydrocarbons
- **Identification number(s) -**
- **Chemical characterization**
- **Description:** Solution of fluorsilicone oil in alkylacetates

## 3 Hazards identification

- **Hazard description:**  
Xn Harmful
- **Information pertaining to particular dangers for man 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.  
R 65 Harmful: may cause lung damage if swallowed.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**  
Health = 0  
Fire = 2  
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**  
Health = 0  
Fire = 2  
Reactivity = 0

## 4 First aid measures

- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Seek medical treatment.  
Rinse opened eye for several minutes under running water.

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

## 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**  
Fumes can combine with air to form an explosive mixture.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in a cool place.  
Keep receptacle tightly sealed.

## 8 Exposure controls and 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:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:** Protective gloves
- **Material of gloves:** Nitrile rubber, NBR
- **Penetration time of glove material:**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- **Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

### · General Information

|               |              |
|---------------|--------------|
| <b>Form:</b>  | Fluid        |
| <b>Color:</b> | Colorless    |
| <b>Odor:</b>  | Recognizable |

### · Change in condition

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>Melting point/Melting range:</b> | Undetermined.         |
| <b>Boiling point/Boiling range:</b> | 180-210°C (356-410°F) |

· **Flash point:** 62°C (144°F)

· **Ignition temperature:** 240°C (464°F)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

### · Explosion limits:

|               |           |
|---------------|-----------|
| <b>Lower:</b> | 0.5 Vol % |
| <b>Upper:</b> | 6.5 Vol % |

· **Vapor pressure at 20°C (68°F):** 3 hPa (2 mm Hg)

· **Density at 20°C (68°F):** 0.785 g/cm<sup>3</sup>

### · Solubility in / Miscibility with

**Water at 20°C (68°F):** 0.04 g/l

### · Viscosity:

|                                |        |
|--------------------------------|--------|
| <b>Dynamic at 20°C (68°F):</b> | 5 mPas |
| <b>Organic solvents:</b>       | 93 %   |

## 10 Stability and reactivity

### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous products of decomposition:** No dangerous decomposition products known.

## 11 Toxicological information

### · Acute toxicity:

### · LD/LC50 values that are relevant for classification:

#### alkylating and naphthening hydrocarbons

|        |       |                   |
|--------|-------|-------------------|
| Oral   | LD-50 | >5000 mg/kg (rat) |
| Dermal | LD-50 | >3000 mg/kg (rab) |

### · Primary irritant effect:

· **on the skin:** No irritant effect.

· **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:

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Harmful

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## 12 Ecological information

- **General notes:** bio-degradable

## 13 Disposal considerations

- **Product:**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Packing group:** -
- **Label:** -
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Danger code (Kemler):** -
- **UN-Number:** -
- **Packaging group:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **UN Number:** -
- **Label:** -
- **Packaging group:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **UN/ID Number:** -
- **Label:** -
- **Packaging group:** -

## 15 Regulations

- **Sara**
- **Section 355 (extremely hazardous substances):**  
Substance is not listed.
- **Section 313 (Specific toxic chemical listings):**  
Substance is not listed.
- **TSCA (Toxic Substances Control Act):**  
Substance is listed.
- **Proposition 65**
- **Chemicals known to cause cancer:**  
Substance is not listed.

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**· Chemicals known to cause reproductive toxicity:**

Substance is not listed.

**· Cancerogenity categories**
**· EPA (Environmental Protection Agency)**

Substance is not listed.

**· IARC (International Agency for Research on Cancer)**

Substance is not listed.

**· NTP (National Toxicology Program)**

Substance is not listed.

**· TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

**· MAK (German Maximum Workplace Concentration)**

Substance is not listed.

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

**· OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

**· Canada WHMIS**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the informations required by the CPR.

**· WHMIS Class** Not regulated under WHMIS

**· Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

**· Hazard symbols:**

Xn Harmful

**· Risk phrases:**

65 Harmful: may cause lung damage if swallowed.

**· Safety phrases:**

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

24 Avoid contact with skin.

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## 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.

**· Department issuing MSDS:**

Abteilung TQM

Herr Vogel

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**· Contact:** Herr Vogel