

# Safety Data Sheet

## HCF

Replaces date: 28/08/2023

Revision date: 01/04/2025  
Version: 1.4.0

### SECTION 1: Identification

#### 1.1. GHS Product identifier

Trade name: HCF

#### 1.2. Recommended use of the chemical and restrictions on use

Recommended uses: Release agent.

#### 1.3. Supplier's details

##### Supplier

Company: Mouldpro ApS  
Address: Baltorpbakken 10  
Zip code: 2750  
City: Ballerup  
Country: DENMARK  
Email: sales@mouldpro.com  
Phone: +45 70 20 31 31  
Homepage: www.mouldpro.com

#### 1.4. Emergency phone Number

+ 45 70 20 31 31 (Mouldpro) The emergency telephone is open between 8 a.m. and 4 p.m. on workdays.

### SECTION 2: Hazard(s) identification

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

**GHS classification:** Flammable liquids, Category 2;H225  
Eye irritation, Category 2/2A;H319  
Specific target organ toxicity - single exposure, Category 3;H336

**Most serious harmful effects:** Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. The product releases vapors which may cause drowsiness and dizziness. At high concentrations, the vapors may cause headache and intoxication.

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### 2.2. GHS label elements, including precautionary statements

#### Pictograms



**Signal word:** Danger

#### Contains

**Substance:** propan-2-ol;

#### Hazard Statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P264 Wash skin thoroughly after handling.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313 If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards which do not result in classification

None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Substance   | CAS No  | Concentration | Notes |
|-------------|---------|---------------|-------|
| propan-2-ol | 67-63-0 | 80 - 100 %    |       |

## SECTION 4: First-aid measures

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

**Inhalation:** Seek fresh air. Seek medical advice in case of persistent discomfort.

**Ingestion:** Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.

**Skin contact:** Remove contaminated clothing. Seek medical advice in case of persistent discomfort. Wash the skin with water.

**Eye contact:** Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.

**Burns:** Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.

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

If ingested, can be irritating to mucous membranes of the mouth and gastrointestinal tract. Irritating to eyes. Causes a burning sensation and tearing. The product releases organic solvent vapors which may cause drowsiness and dizziness. At high concentrations, the vapors may cause headache and intoxication.

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

Treat symptoms. No special immediate treatment required.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

**Suitable extinguishing media:** Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.

**Unsuitable extinguishing media:** Do not use a jet of water, as it may spread the fire.

### 5.2. Specific hazards arising from the chemical

The product decomposes when combusted and the following toxic gases can be formed: formaldehyde/ Carbon monoxide and carbon dioxide.

### 5.3. Special protective actions for fire-fighters

Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Move containers from danger area if it can be done without risk. Avoid inhalation of vapor and smoke gases - seek fresh air.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel:** Stay upwind/keep distance from source. Stop leak if this can be done without risk. Smoking and naked flames prohibited. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment. Wear respiratory protective equipment. Wear gloves. Wear safety goggles.

**For emergency responders:** In addition to the above: Protective suit is recommended.

### 6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

### 6.3. Methods and materials for containment and cleaning up

Contain and absorb spills using sand or other absorbent, non-combustible material and transfer to suitable waste containers.

### 6.4. Reference to other sections

See section 8 for type of protective equipment.

See section 13 for instructions on disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work. Smoking and naked flames prohibited. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment.

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

Store safely, out of reach of children and away from food, animal feeding stuffs, drugs, etc. Keep in tightly closed original packaging. Store in a dry, cool, well-ventilated area. Do not store with the following: Strong acids/ Strong alkalis/ Oxidizers.

### 7.3. Specific end use(s)

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None.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Occupational exposure limit:** There are no official GHS occupational exposure limits. Be aware of possible national occupational exposure limits.

**Measuring methods:** Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

#### 8.2. Exposure controls

**Appropriate engineering controls:** Wear the personal protective equipment specified below. Work under effective process ventilation (e.g. local exhaust ventilation).

**Personal protective equipment, eye/face protection:** Wear safety goggles.

**Personal protective equipment, hand protection:** Wear gloves. Type of material: Butyl rubber. Penetration time: >8 hours. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

**Personal protective equipment, respiratory protection:** Light use (small volume, short term contact (below 10 min.)): Not required.  
Medium use (medium volume, medium contact (1-2 hours)): Filter type: A.

**Environmental exposure controls:** Ensure compliance with local regulations for emissions.

### SECTION 9: Physical and chemical properties

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

| Parameter      | Value/unit                       |
|----------------|----------------------------------|
| Physical state | Liquid                           |
| Color          | Colourless                       |
| Odour          | Mild                             |
| Solubility     | Soluble in the following: Water. |

| Parameter  | Value/unit             | Remarks |
|--|------------------------|---------|
| Odour threshold  | No data                |         |
| Melting point  | No data                |         |
| Freezing point   | No data                |         |
| Boiling point or initial boiling point and boiling range | > 82 °C                |         |
| Flammability   | No data                |         |
| Lower and upper flammability limit                       | No data                |         |
| Lower and upper explosion limit                          | 2 - 13 vol%            |         |
| Flash Point  | 12 °C                  |         |
| Auto-ignition temperature                                | 399 °C                 |         |
| Decomposition temperature                                | No data                |         |
| pH (solution for use)                                    | No data                |         |
| pH (concentrate)   | No data                |         |
| Kinematic viscosity                                      | 1.7 mm <sup>2</sup> /s |         |
| Viscosity  | No data                |         |
| Partition coefficient n-octanol/water (log value)        | No data                |         |
| Vapour pressure  | No data                |         |

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|                             |         |  |
|-----------------------------|---------|--|
| Density                     | No data |  |
| Relative density            | 0.998   |  |
| Relative vapour density     | No data |  |
| Relative density (sat. air) | No data |  |
| Particle characteristics    | No data |  |

### 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with the following: Strong acids/ Strong alkalis/ Oxidizers.

### 10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

Product vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

### 10.4. Conditions to avoid

Avoid heating and contact with ignition sources. Avoid direct sunlight.

### 10.5. Incompatible materials

Strong acids/ Strong alkalis/ Oxidizers.

### 10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed: formaldehyde/ Carbon monoxide and carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on health hazard classes

#### Acute toxicity - oral

##### propan-2-ol, cas-no 67-63-0

| Organism | Test Type | Exposure time | Value      | Conclusion | Test method | Source |
|----------|-----------|---------------|------------|------------|-------------|--------|
| Rat      | LD50      |               | 5840 mg/kg |            |             |        |

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. Ingestion may cause discomfort.

#### Acute toxicity - dermal

##### propan-2-ol, cas-no 67-63-0

| Organism | Test Type | Exposure time | Value      | Conclusion | Test method | Source |
|----------|-----------|---------------|------------|------------|-------------|--------|
| Rabbit   | LD50      |               | 16.4 ml/kg |            |             |        |

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

#### Acute toxicity - inhalation

##### propan-2-ol, cas-no 67-63-0

| Organism | Test Type | Exposure time | Value       | Conclusion | Test method | Source |
|----------|-----------|---------------|-------------|------------|-------------|--------|
| Rat      | LD50      | 1 h           | 1666.66 ppm |            |             |        |

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

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**Skin corrosion/irritation:** The product does not have to be classified. Test data are not available. May irritate the skin - may cause reddening.

**Serious eye damage/eye irritation:** Irritating to eyes. Causes a burning sensation and tearing.

**Respiratory sensitization or skin sensitization:** The product does not have to be classified. Test data are not available.

**Germ cell mutagenicity:** The product does not have to be classified. Test data are not available.

**Carcinogenic properties:** The product does not have to be classified. Test data are not available.

**Reproductive toxicity:** The product does not have to be classified. Test data are not available.

**Single STOT exposure:** If ingested, can be irritating to mucous membranes of the mouth and gastrointestinal tract. The product releases organic solvent vapors which may cause drowsiness and dizziness. At high concentrations, the vapors may cause headache and intoxication.

**Repeated STOT exposure:** The product does not have to be classified. Test data are not available.

### Aspiration hazard

#### propan-2-ol, cas-no 67-63-0

| Organism | Test Type             | Exposure time | Value                   | Conclusion | Test method | Source |
|----------|-----------------------|---------------|-------------------------|------------|-------------|--------|
|          | Viscosity (kinematic) |               | 2.58 mm <sup>2</sup> /s |            |             |        |

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

### 11.2. Information on other hazards

**Endocrine disrupting properties:** None known.

**Other toxicological effects:** None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### propan-2-ol, cas-no 67-63-0

| Organism  | Species             | Exposure time | Test Type | Value             | Conclusion | Test method | Source |
|-----------|---------------------|---------------|-----------|-------------------|------------|-------------|--------|
| Crustacea |                     |               | EC50      | > 10000 mg/l      |            |             |        |
| Crustacea |                     |               | NOEC      | 3.37 mg/l         |            |             |        |
| Fish      | Pimephales promelas |               | LC50      | 9640 - 10000 mg/l |            |             |        |

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

### 12.2. Persistence and degradability

#### propan-2-ol, cas-no 67-63-0

| Organism | Species | Exposure time | Test Type | Value | Conclusion             | Test method | Source |
|----------|---------|---------------|-----------|-------|------------------------|-------------|--------|
|          |         |               |           |       | Readily biodegradable. |             |        |

The product contains at least one readily biodegradable substance.

### 12.3. Bioaccumulative potential

#### propan-2-ol, cas-no 67-63-0

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| Organism | Species | Exposure time | Test Type | Value | Conclusion | Test method | Source |
|----------|---------|---------------|-----------|-------|------------|-------------|--------|
| Fish     |         |               | BCF       | 3     |            |             |        |
|          |         |               | Log Kow   | 0.05  |            |             |        |

The product contains at least one substance with low bioaccumulative potential.

### 12.4. Mobility in soil

#### propan-2-ol, cas-no 67-63-0

| Organism | Species | Exposure time | Test Type | Value | Conclusion | Test method | Source |
|----------|---------|---------------|-----------|-------|------------|-------------|--------|
|          |         |               | Log Koc   | 1.5   |            |             |        |

The product contains at least one substance with high soil mobility.

### 12.5. Results of PBT and vPvB assessment

No assessment has been made.

### 12.6. Endocrine disrupting properties

None known.

### 12.7. Other adverse effects

None known.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## SECTION 14: Transport information

### Land transport (ADR/RID)

|                                   |                   |                                     |  |
|-----------------------------------|-------------------|-------------------------------------|--|
| 14.1. UN number:                  | 1219              | 14.4. Packing group, if applicable: | II   |
| 14.2. UN proper shipping name:    | ISOPROPYL ALCOHOL | 14.5. Environmental hazards:        | The product should not be labelled as an environmental hazard (symbol: fish and tree). |
| 14.3. Transport hazard class(es): | 3                 |                                     |  |
| Hazard label(s):                  | 3                 |                                     |  |
| Hazard identification number:     | 33                | Tunnel restriction code:            | D/E  |

### Inland water ways transport (ADN)

|                                   |                   |                                     |  |
|-----------------------------------|-------------------|-------------------------------------|--|
| 14.1. UN number:                  | 1219              | 14.4. Packing group, if applicable: | II   |
| 14.2. UN proper shipping name:    | ISOPROPYL ALCOHOL | 14.5. Environmental hazards:        | The product should not be labelled as an environmental hazard (symbol: fish and tree). |
| 14.3. Transport hazard class(es): | 3                 |                                     |  |
| Hazard label(s):                  | 3                 |                                     |  |
| Transport in tank vessels:        |                   |                                     |  |

### Sea transport (IMDG)

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|  |                   |   |   |
|--|-------------------|---|---|
| <b>14.1. UN number:</b>                  | 1219              | <b>14.4. Packing group, if applicable:</b>        | II  |
| <b>14.2. UN proper shipping name:</b>    | ISOPROPYL ALCOHOL | <b>14.5. Environmental hazards:</b>               | The product is not a Marine Pollutant (MP). |
| <b>14.3. Transport hazard class(es):</b> | 3                 | <b>Environmental Hazardous Substance Name(s):</b> |   |
| <b>Hazard label(s):</b>                  | 3                 |   |   |
| <b>EmS:</b>                              | F-E, S-D          | <b>IMDG Code segregation group:</b>               | - None -                                    |

### Air transport (ICAO-TI / IATA-DGR)

|  |                   |  |  |
|--|-------------------|--|--|
| <b>14.1. UN number:</b>                  | 1219              | <b>14.4. Packing group, if applicable:</b> | II   |
| <b>14.2. UN proper shipping name:</b>    | ISOPROPYL ALCOHOL | <b>14.5. Environmental hazards:</b>        | The product should not be labelled as an environmental hazard (symbol: fish and tree). |
| <b>14.3. Transport hazard class(es):</b> | 3                 |  |  |
| <b>Hazard label(s):</b>                  | 3                 |  |  |

### 14.6. Special precautions for user

None.

### 14.7. Transport in bulk according to IMO instruments

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations specific for the product in question

**Special Provisions:** None.

### 15.2. Chemical Safety Assessment

**Other Information:** Chemical safety assessment has not been performed.

## SECTION 16: Other information

### Version history and indication of changes

| Version | Revision date | Responsible | Changes                      |
|---------|---------------|-------------|------------------------------|
| 1.4.0   | 01/04/2025    | DOL         | 1,2,3,5,7,8,9,10,11,12,13,16 |

**Abbreviations:**  
PBT: Persistent, Bioaccumulative and Toxic  
STOT: Specific Target Organ Toxicity  
vPvB: Very Persistent and Very Bioaccumulative

**Other Information:** This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with GHS Rev. 10 (2023).

**Training advice:** A thorough knowledge of this safety data sheet should be a prerequisite condition.

**Classification method:** Calculation based on the hazards of the known components. Test data.

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### SDS is prepared by

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