
1 Identification of substance:

- **Product details:**

- **Trade name:** Frekote 700NC

- **Article number:** FK0799

- **Application of the substance / the preparation**

Mould release agent

Solvents

- **Manufacturer/Supplier:**

Henkel Loctite Adhesives Ltd.

Kelsey House, Wood Lane End

Hemel Hempstead, Herts. HP2 4RQ, U.K.

Tel. +44 (0)1442 233 233, Fax +44 (0)1442 269 554

- **Informing department:** Product Safety & Regulatory Affairs (PS/RA) - see section 16.

2 Composition/Data on components:

- **Chemical characterization**

- **Description:** Mixture of the substances listed below with harmless additions.

- **Dangerous components:**

| | | |
|-------------------|---|---------|
| CAS: 64742-48-9 | Naphtha (petroleum), hydrotreated heavy | 70-100% |
| EINECS: 265-150-3 | Xn; R 65 | |

| | | |
|-------------------|-------------------|-------|
| CAS: 142-96-1 | di-n-butyl ether | 5-20% |
| EINECS: 205-575-3 | Xi; R 10-36/37/38 | |

| | | |
|-------------------|-------------------------------------|----------|
| CAS: 64741-66-8 | Naphtha (petroleum), light alkylate | 1.0-5.0% |
| EINECS: 265-068-8 | Xn; R 65 | |

| | | |
|-------------------|-------------------------------|----------|
| CAS: 111-65-9 | octane | 1.0-5.0% |
| EINECS: 203-892-1 | Xn, F, N; R 11-38-50/53-65-67 | |

- **Additional information** For the wording of the listed risk phrases refer to section 16.

* 3 Hazards identification

- **Hazard designation:**



Xn Harmful

N Dangerous for the environment

- **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 10 Flammable.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

- **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4 First aid measures

- **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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In case of unconsciousness bring patient into stable side position for transport.

- **After skin contact** Wash with water and acidic soap.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing**
A person vomiting while lying on their back should be turned onto their side.
Call a doctor immediately.
- **Information for doctor**
- **The following symptoms may occur:**
Breathing difficulty
Unconsciousness
see section 3.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Can form explosive gas-air mixtures.
see section 10
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Person-related safety precautions:**
Keep away from ignition sources
Wear protective equipment. Keep unprotected persons away.
Keep people at a distance and stay on the windward side.
Use breathing protection against the effects of fumes/dust/aerosol.
- **Measures for environmental protection:**
Do not allow to enter drainage system, surface or ground water.
Prevent from spreading (e.g. by damming-in or oil barriers).
Inform respective authorities in case product reaches water or sewage system.
- **Measures for cleaning/collecting:**
Collect mechanically.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Allow material to evaporate.
Ensure adequate ventilation.
- **Additional information:** See Section 7 for information on safe handling

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Avoid splashes or spray in enclosed areas.
Restrict the quantity stored in the work place.
Ensure that suitable extractors are available on processing machines
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Use solvent-proof equipment.
Wear breathing protection when decanting larger quantities without extractor facilities.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Do not spray on flames or red-hot objects.
Protect against electrostatic charges.
The product forms flammable fumes when heated.

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Substance/product can reduce the ignition temperature of flammable substances.

- **Storage**
- **Requirements to be met by storerooms and containers:**
 - Provide floor trough without outlet.
 - Prevent any penetration into the ground.
- **Information about storage in one common storage facility:** see section 10
- **Further information about storage conditions:**
 - Keep container tightly sealed.
 - Protect from heat and direct sunlight.
 - Store only outside or in explosion proof rooms.
 - Must be stored in a collecting room.

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:**
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Avoid contact with the eyes and skin.
 - Do not inhale gases / fumes / aerosols.
 - Do not eat, drink or smoke while working.
 - Wash hands during breaks and at the end of the work.
 - Apply solvent resistant skin protective compounds before beginning work.
- **Breathing equipment:**
 - Use breathing protection in case of insufficient ventilation (acc. to EN 141, EN 143 ...).
 - Filter A/P2.
- **Protection of hands (EN420,EN388,EN374 etc.):** Solvent resistant gloves
- **Material of gloves**
 - Fluorocarbon rubber (Viton)
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
 - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**
 - Tightly sealed safety glasses.
 - Face protection
- **Body protection:** Solvent resistant protective clothing

9 Physical and chemical properties:

- **General Information**

| | |
|----------------|------------|
| Form: | Liquid |
| Colour: | Colourless |
| Odour: | Mild |
- **Change in condition**
 - Melting point/Melting range:** Not determined
 - Boiling point/Boiling range:** > 113°C
- **Flash point:** 31°C (TCC)

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- **Ignition temperature:** > 174°C
 - **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.
see section 7. & 10.
 - **Critical values for explosion:**
 - Lower:** 0.6 Vol %
 - Upper:** 8.5 Vol %
 - **Density at 20°C** 0.75 g/cm³
 - **Solubility in / Miscibility with**
 - Water:** Not miscible or difficult to mix
 - **Organic solvents:** Soluble in many organic solvents
 - **Solvent content:**
 - Organic solvents:** 99.0 % (VOC)
-

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
Stable at ambient temperature
To avoid thermal decomposition do not overheat.
 - **Dangerous reactions**
Reacts with strong oxidizing agents
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised
Used empty containers may contain product gases which form explosive mixtures with air
 - **Dangerous products of decomposition:**
Inflammable gases/vapours
Hydrocarbons
Carbon monoxide and carbon dioxide
-

*** 11 Toxicological information**

- **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:**

111-65-9 octane
Inhalative LC50/4 h 118 mg/l (rat)
 - **Primary irritant effect:**
 - **on the skin:** ---
 - **on the eye:** Irritant effect.
 - **Sensitization:** ---
 - **Additional toxicological information:**
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
-

12 Ecological information:

- **General notes:**
The product contains materials that are harmful to the environment.
Do not allow product to reach ground water, water bodies or sewage system.
-

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

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08 01 17 wastes from paint or varnish removal containing organic solvents or other dangerous substances

04 02 14 wastes from finishing containing organic solvents

- **Uncleaned packagings:**

- **Recommendation:**

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

- **Recommended cleaning agent:** 2-Butanone, MEK (Caution: flammable !)

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID-GGVS/E Class:** 3 Flammable liquids.

- **Kemler Number:** 30

- **UN-Number:** 1866

- **Packaging group:** III

- **Label** 3

- **Designation of goods:** 1866 RESIN SOLUTION (not viscous)

- **Maritime transport IMDG:**



- **IMDG Class:** 3

- **UN Number:** 1866

- **Label** 3

- **Packaging group:** III

- **EMS Number:** F-E,S-E

- **Marine pollutant:** Not a marine pollutant

- **Correct technical name:** RESIN SOLUTION

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3

- **UN/ID Number:** 1866

- **Label** 3

- **Packaging group:** III

- **Correct technical name:** RESIN SOLUTION

*** 15 Regulatory information**

- **Designation according to EC guidelines:**

The product has been labelled in accordance with EC Directives / relevant national laws.

- **Code letter and hazard designation of product:**

Xn Harmful

N Dangerous for the environment

- **Hazard-determining components of labelling:**

Naphtha (petroleum), hydrotreated heavy

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· Risk phrases:

- 10 Flammable.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.

· Safety phrases:

- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe fumes/aerosol.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 33 Take precautionary measures against static discharges.
- 51 Use only in well-ventilated areas.
- 57 Use appropriate container to avoid environmental contamination.

· National regulations**· Technical instructions on air emissions in Germany ("TA Luft"):****· Class Share in %**

- III 1,0-5,0
- NK 70-100

· Water hazard class (as established in Germany):

Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant R-phrases

- 10 Flammable.
- 11 Highly flammable.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 38 Irritating to skin.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

· Department issuing data specification sheet:

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---- Product Safety & Regulatory Affairs
---- Tel. (+49-89) 92 68-0, Fax (+49-89) 92 68-1659

· * Data compared to the previous version altered.