

Fortynder

**Safety data sheet in accordance with 91/155/EEC**

Trade name : Hesse CN-Thinner

Product no. : RV 173

Print date : 21.11.2003

Revised: 21.11.2003

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**1. Identification of the substance/preparation and company**

Product details

Hesse CN-Thinner RV 173

Recommended use

Surface treatment of wood and other materials

Supplier details :

Hesse GmbH &amp; Co

Warendorfer Str. 21

D-59075 Hamm

Telephone no. : 0 23 81 / 963 00    Telefax : 0 23 81 / 963 849

Information provided by :

Emergency telephone number : 0 23 81 / 788 612

**2. Composition/information on ingredients**

Hazardous ingredients

- Designation of substance

EC number    CAS number    Concentration    Hazard symbols, R phrases

- n-butyl acetate

204-658-1    123-86-4    50 - 100 %    10-66-67

- dipropylenglycol monomethyl ether

252-104-2    34590-94-8    10 - 25 %

- 2-(2-butoxyethoxy)ethanol

203-961-6    112-34-5    1 - 2.5 %    Xi    36

- 1-methoxypropyl acetate

203-603-9    108-65-6    10 - 25 %    Xi    10-36

Full text of R-phrases see under section 16.

**3. Hazards identification**

Hazard indication

Irritant

Special hints about risks for man and environment

Flammable.

Irritating to eyes.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

**4. First aid measures**

General information

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

after inhalation

Ensure supply of fresh air.

Keep patient warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

If unconscious place in recovery position and seek medical advice.

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after contact with skin

Remove contaminated clothes, underwear and shoes immediately.  
Wash skin thoroughly with soap and water or use recognized skin cleanser.

Do NOT use solvents or thinners.

after contact with eyes

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

after ingestion

If accidentally swallowed obtain immediate medical attention.  
Do not induce vomiting.

**5. Fire-fighting measures**

Suitable extinguishing media

Alcohol-resistant foam

Carbon dioxide

Dry powder

Water spray (partly applicable)

Extinguishing media that must not be used for safety reasons

Full water jet

Special hazards from the material itself or its combustion products

Fire will produce dense black smoke.

Inhalation of dangerous decomposition products may cause severe health hazards.

Special protective equipment for fire-fighting procedures

Appropriate breathing apparatus may be required.

Cool closed containers exposed to fire with water.

**6. Accidental release measures**

Personal precautions

Keep away sources of ignition!

Ensure adequate ventilation.

Avoid inhalation of vapour!

Refer to protective instructions (see sections 7 and 8).

Environmental precautions

Do not allow to enter drains.

In case of penetration into waters, earth or sewers inform the appropriate authorities.

Methods for cleaning up/taking up

Soak up spillage with non-combustible absorbent material (e.g. sand, earth, kieselguhr, vermiculite) and collect in suitable containers for disposal according to the local regulations.

**7. Handling and storage**

Handling

Advice on safe handling

Prevent the formation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

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The material should only be used in areas from which all naked lights, fire and other sources of ignition have been excluded.

Material may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic clothing and footwear.

No sparking tools should be used.

Avoid skin and eye contact.

Avoid inhalation of vapour and spray mist.

Smoking, eating and drinking should be prohibited in application area.

For personal protection see section 8.

Comply with the health and safety at work laws.

Advice on protection against fire and explosion

The vapours of the product are heavier than air.

They may bridge a considerable distance to any source of ignition.

Vapours may form explosive mixtures with air.

### Storage

Requirements for storage rooms and containers

Electrical equipment must be explosion protected according to the appropriate standards.

Floors should be of conducting type.

Keep container tightly closed.

Never use pressure to empty; container is not a pressure vessel!

No Smoking!

No unauthorized entry.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on storage compatibility

Keep away from strongly acid and strongly alkaline materials as well as from oxidizing agents.

Further informations on storage conditions

Always keep in containers of same material as the original one.

Pay attention to the advices on the label.

Keep container tightly closed in a cool, dry, well-ventilated place.

Protect from heat and direct sunlight.

Keep away from sources of ignition.

### 8. Exposure controls/personal protection

Additional advice on system design

Provide adequate ventilation. This should be achieved by the use of local exhaust ventilation and good general extraction.

If these are not sufficient to maintain concentrations of solvent vapour below the OEL-value, suitable respiratory protection must be worn.

Ingredients with occupational exposure limits to be monitored

- Designation of substance

CAS number    Type                      Limit value

- n-butyl acetate

123-86-4    !!! 832 / DK !! 150 ppm                      710 mg/m3

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- dipropylenglycol monomethyl ether		
34590-94-8	!!! 832 / DK !!	50 ppm 300 mg/m <sup>3</sup>
- 2-(2-butoxyethoxy)ethanol		
112-34-5	!!! 832 / DK !!	100 mg/m <sup>3</sup>
- 1-methoxypropyl acetate		
108-65-6	!!! 832 / DK !!	50 ppm 270 mg/m <sup>3</sup>

Values according to the valid lists (e.g. TRGS 900 for Federal Republic of Germany).

### Personal protective equipment

**Respiratory protection** If the concentrations of solvents are above the exposure limits an appropriate certified respirator must be worn.

**Hand protection** Wear suitable protective gloves (EN 374). Multilayer-gloves of butyl/fluorocarbon rubber are recommended. Observe instructions of the manufacturers and break-through terms. Replace damaged gloves immediately.

**Eye protection** For protection against splashes wear goggles with lateral protection (EN 166).

**Body protection** Personnel should wear antistatic clothings made of natural fibre (cotton) or of high temperature resistant synthetic fibre. All parts of the body should be washed after contact.

### 9. Physical and chemical properties

#### Appearance

Form	liquid
Colour	colourless
Odour	of organic solvents

#### Flash point

32 °C

#### Density

0.911 kg/l

at 20 °C

#### Viscosity DIN 4 mm

10 until 12 sec

at 20 °C

#### VOC-content

97.7 %

### 10. Stability and reactivity

#### hazardous reactions

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

#### Hazardous decomposition products

When exposed to high temperatures hazardous decomposition products may be formed such as carbon monoxide and dioxide, nitrogen oxides, smoke.

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### 11. Toxicological information

#### Remarks

The preparation is classified according to the calculation method of the directive 1999/45/EC.  
 Inhalation of solvents above the OEL-value may cause damages to health such as irritation of mucous membranes and respiratory tract and adverse effects on kidney, liver and central nervous system.  
 Signs and symptoms: headache, vertigo, tiredness, muscular weakness, daze and, in exceptional cases, unconsciousness.  
 Prolonged or repeated contact with the product may cause removal of natural fat from the skin resulting in drying-out.  
 The product can penetrate through the skin into the body.  
 The liquid splashed in the eyes may cause irritation and reversible damage.

#### Further toxicological comments

According to our knowledge and informations on hand the product does not cause any health hazard, if handled properly and used as intended.

### 12. Ecological information

#### Remarks

There are no data available on the preparation itself.  
 Do not empty into drains.

### 13. Advice on disposal

#### Product

Do not dispose together with household waste.  
 Codes of waste according to the European Waste Catalogue (EWC):  
     14 06 03 other solvents and solvent mixtures  
     20 01 13 solvents

#### Uncleaned packaging

Containers must be completely emptied (spatula clean) before they can be reused. Disposal according to regulations!

### 14. Transport information

#### ADR/RID (Land transport)

UN 1263 Class 3 Packaging group: III

#### Proper shipping name

PAINT RELATED MATERIAL

#### Further information

Special provision 640E

#### IMDG-Code (Marine transport)

UN 1263 Class 3 Packaging group: III

Ems 3-05

#### Proper shipping name

PAINT RELATED MATERIAL

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

UN 1263 Class 3 Packaging group: III

#### Proper shipping name

PAINT RELATED MATERIAL

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**15. Regulatory information**

Labelling in accordance with GefStoffV/EC-directives

The product is classified and labelled in accordance with  
EC directives on dangerous substances.

Hazard symbols            Xi Irritant

R phrases

- 10            Flammable.  
36            Irritating to eyes.  
66            Repeated exposure may cause skin dryness or cracking.  
67            Vapours may cause drowsiness and dizziness.

S phrases

- 23            Do not breathe vapour/spray.  
25            Avoid contact with eyes.  
51            Use only in well ventilated areas.

Special labelling of certain preparations

Young persons under 18 years may not work with this product.

Angaben zum Malcode (Dänemark)

Malcode : 4-1

Malzahl : 2812.82

**16. Other informations**

asterisk (\*) on left margin marks modification of previous version

R-phrases of the ingredients listed in chapter 2

- 10            Flammable.  
36            Irritating to eyes.  
66            Repeated exposure may cause skin dryness or cracking.  
67            Vapours may cause drowsiness and dizziness.

These informations are based on the present state of our knowledge.  
They are meant as a description of the safety requirements of our  
product and are not to be considered as a guarantee of the product's  
properties.  
Without authorization in writing the product may not be used for any  
other purpose. The user is responsible for the keeping of all relevant  
legal requirements.