

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**NORD-TEST Reiniger U 87 Spray**

Revision date: 05.06.2023

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

NORD-TEST Reiniger U 87 Spray

**Further trade names**

121.300.101

UFI:

2PJ5-JX6G-JQ68-WYX8

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

Washing and cleaning products (including solvent based products)

**1.3. Details of the supplier of the safety data sheet**

Company name: Helling GmbH  
Street: Spoekerdamm 2  
Place: D-25436 Heidgraben  
Telephone: +49-4122-922-0  
e-mail: info@helling.de  
Internet: www.helling.de

Telefax: +49-4122-922-201

**1.4. Emergency telephone number:**

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Hazard categories:

Aerosols: Aerosol 1

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes serious eye irritation.

**2.2. Label elements****Regulation (EC) No 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H319 Causes serious eye irritation.

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.

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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No   | Chemical name                                 |              |                  | Quantity  |
|----------|-----------------------------------------------|--------------|------------------|-----------|
|          | EC No                                         | Index No     | REACH No         |           |
|          | Classification (Regulation (EC) No 1272/2008) |              |                  |           |
| 64-17-5  | ethanol, ethyl alcohol                        |              |                  | 75 - 85 % |
|          | 200-578-6                                     | 603-002-00-5 | 01-2119457610-43 |           |
|          | Flam. Liq. 2, Eye Irrit. 2; H225 H319         |              |                  |           |
| 106-97-8 | butane                                        |              |                  | 10 - 16 % |
|          | 203-448-7                                     | 601-004-00-0 | 01-2119474691-32 |           |
|          | Flam. Gas 1; H220                             |              |                  |           |
| 74-98-6  | propane                                       |              |                  | 4 - 8 %   |
|          | 200-827-9                                     | 601-003-00-5 | 01-2119486944-21 |           |
|          | Flam. Gas 1; H220                             |              |                  |           |

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

| CAS No   | EC No     | Chemical name                                                                                 | Quantity  |
|----------|-----------|-----------------------------------------------------------------------------------------------|-----------|
|          |           | Specific Conc. Limits, M-factors and ATE                                                      |           |
| 64-17-5  | 200-578-6 | ethanol, ethyl alcohol                                                                        | 75 - 85 % |
|          |           | inhalation: LC50 = 95,6 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 10470 mg/kg |           |
| 106-97-8 | 203-448-7 | butane                                                                                        | 10 - 16 % |
|          |           | inhalation: LC50 = 658 mg/l (dusts or mists)                                                  |           |
| 74-98-6  | 200-827-9 | propane                                                                                       | 4 - 8 %   |
|          |           | inhalation: LC50 = > 20 mg/l (vapours)                                                        |           |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection!

#### After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If victim is at risk of losing consciousness, position and transport on their side.

#### After contact with skin

Wash with plenty of water. Change contaminated clothing.

#### After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

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**After ingestion**

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

Following inhalation: Headache, drowsiness, Dizziness, unconsciousness.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder. Atomized water.  
Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Vapours may form explosive mixtures with air.  
Heating causes rise in pressure with risk of bursting.  
In case of fire may be liberated: Carbon monoxide Carbon dioxide.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.  
Provide adequate ventilation. Remove all sources of ignition.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Remove persons to safety.

**6.2. Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Explosion hazard. Suppress gases/vapours/mists with water spray jet.

**6.3. Methods and material for containment and cleaning up****Other information**

Ventilate affected area.  
Flammable liquids: Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink. Keep away from food, drink and animal feedingstuffs. Do not breathe gas/vapour/aerosol. Avoid contact with eyes and skin.

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

##### Requirements for storage rooms and vessels

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

Keep away from sources of ignition - No smoking. Protect from direct sunlight. Heating causes rise in pressure with risk of bursting.

##### Hints on joint storage

Do not store together with: Oxidizing agents.

#### 7.3. Specific end use(s)

No information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

| CAS No   | Substance | ppm  | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|----------|-----------|------|-------------------|-----------|---------------|--------|
| 106-97-8 | Butane    | 600  | 1450              |           | TWA (8 h)     | WEL    |
|          |           | 750  | 1810              |           | STEL (15 min) | WEL    |
| 64-17-5  | Ethanol   | 1000 | 1920              |           | TWA (8 h)     | WEL    |

##### DNEL/DMEL values

| CAS No                   | Substance              | Exposure route | Effect   | Value                  |
|--------------------------|------------------------|----------------|----------|------------------------|
| 64-17-5                  | ethanol, ethyl alcohol |                |          |                        |
| Consumer DNEL, long-term |                        | oral           | systemic | 87 mg/kg bw/day        |
| Consumer DNEL, long-term |                        | dermal         | systemic | 206 mg/kg bw/day       |
| Worker DNEL, long-term   |                        | dermal         | systemic | 343 mg/kg bw/day       |
| Consumer DNEL, acute     |                        | inhalation     | local    | 950 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term |                        | inhalation     | systemic | 114 mg/m <sup>3</sup>  |
| Worker DNEL, acute       |                        | inhalation     | local    | 1900 mg/m <sup>3</sup> |
| Worker DNEL, long-term   |                        | inhalation     | systemic | 950 mg/m <sup>3</sup>  |

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#### PNEC values

| CAS No  | Substance                                        |            |
|---------|--------------------------------------------------|------------|
|         | Environmental compartment                        | Value      |
| 64-17-5 | ethanol, ethyl alcohol                           |            |
|         | Freshwater                                       | 0,96 mg/l  |
|         | Marine water                                     | 0,79 mg/l  |
|         | Freshwater sediment                              | 3,6 mg/kg  |
|         | Marine sediment                                  | 2,9 mg/kg  |
|         | Micro-organisms in sewage treatment plants (STP) | 580 mg/l   |
|         | Soil                                             | 0,63 mg/kg |

#### Additional advice on limit values

DNEL/DMEL and PNEC values: No data available

#### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

Tested protective gloves are to be worn: Solvent-proof.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Before using check leak tightness / impermeability.

Recommended protective gloves brand:

NBR (Nitrile rubber). Butyl rubber. FKM (fluororubber).

penetration time (maximum wearing period): > 8 h (DIN EN 374)

Protective gloves have to be replaced at the first sign of deterioration.

##### Skin protection

Body protection: not required.

##### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

##### Environmental exposure controls

No information available.

### SECTION 9: Physical and chemical properties

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

|                                                           |            |                |
|-----------------------------------------------------------|------------|----------------|
| Physical state:                                           | Aerosol    |                |
| Colour:                                                   | colourless |                |
| Odour:                                                    | Alcohol    |                |
| Melting point/freezing point:                             |            | not applicable |
| Boiling point or initial boiling point and boiling range: |            | not applicable |
| Flammability                                              |            |                |

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|                                        |                                 |
|----------------------------------------|---------------------------------|
| Gas:                                   | Extremely flammable.            |
| Lower explosion limits:                | 1,4 vol. %                      |
| Upper explosion limits:                | 10,8 vol. %                     |
| Flash point:                           | not applicable                  |
| Auto-ignition temperature:             | not determined                  |
| pH-Value:                              | not applicable                  |
| Viscosity / kinematic:                 | not determined                  |
| Water solubility:                      | completely miscible             |
| Solubility in other solvents           |                                 |
| miscible with most organic solvents    |                                 |
| Partition coefficient n-octanol/water: | No data available               |
| Vapour pressure:                       | 3100 hPa                        |
| (at 20 °C)                             |                                 |
| Density (at 20 °C):                    | 0,784 - 0,786 g/cm <sup>3</sup> |
| Bulk density:                          | not applicable                  |
| Relative vapour density:               | not determined                  |

**9.2. Other information****Information with regard to physical hazard classes****Explosive properties**

In use may form flammable/explosive vapour-air mixture.

**Self-ignition temperature**

Gas:

not determined

**Oxidizing properties**

Not oxidising.

**Other safety characteristics**

Evaporation rate:

not determined

Solvent content:

~70%

Viscosity / dynamic:

not determined

(at 20 °C)

**Further Information**

Temperature of decomposition in °C: not applicable

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No risks worthy of mention.

**10.2. Chemical stability**

No risks worthy of mention.

**10.3. Possibility of hazardous reactions**

Heating causes rise in pressure with risk of bursting. Vapours may form explosive mixtures with air.

**10.4. Conditions to avoid**

Remove all sources of ignition. Keep away from heat.

**10.5. Incompatible materials**

Oxidizing agents, strong.

**10.6. Hazardous decomposition products**

Carbon monoxide Carbon dioxide.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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#### Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No   | Chemical name              |                   |         |        |        |
|----------|----------------------------|-------------------|---------|--------|--------|
|          | Exposure route             | Dose              | Species | Source | Method |
| 64-17-5  | ethanol, ethyl alcohol     |                   |         |        |        |
|          | oral                       | LD50 10470 mg/kg  | Rat     | IUCLID |        |
|          | dermal                     | LD50 > 2000 mg/kg | Rabbit  |        |        |
|          | inhalation (4 h) vapour    | LC50 95,6 mg/l    | Rat     | RTECS  |        |
| 106-97-8 | butane                     |                   |         |        |        |
|          | inhalation (4 h) dust/mist | LC50 658 mg/l     | Rat     |        |        |
| 74-98-6  | propane                    |                   |         |        |        |
|          | inhalation (4 h) vapour    | LC50 > 20 mg/l    | Rat     |        |        |

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

Vapours may cause drowsiness and dizziness.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

see section 12

### SECTION 12: Ecological information

#### 12.1. Toxicity

Based on available data, the classification criteria are not met.

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| CAS No  | Chemical name            |               |           |         |                              |        |
|---------|--------------------------|---------------|-----------|---------|------------------------------|--------|
|         | Aquatic toxicity         | Dose          | [h]   [d] | Species | Source                       | Method |
| 64-17-5 | ethanol, ethyl alcohol   |               |           |         |                              |        |
|         | Acute fish toxicity      | LC50<br>mg/l  | 8140      | 96 h    | Leuciscus idus (golden orfe) |        |
|         | Acute algae toxicity     | ErC50<br>mg/l | 275       | 72 h    | Chlorella vulgaris           |        |
|         | Acute crustacea toxicity | EC50<br>mg/l  | > 10000   | 48 h    | Daphnia magna                | IUCLID |
| 74-98-6 | propane                  |               |           |         |                              |        |
|         | Acute fish toxicity      | LC50<br>mg/l  | > 100     | 96 h    |                              |        |
|         | Acute algae toxicity     | ErC50<br>mg/l | > 100     |         |                              |        |
|         | Acute crustacea toxicity | EC50<br>mg/l  | > 100     | 48 h    |                              |        |

#### 12.2. Persistence and degradability

Easily biodegradable (concerning to the criteria of the OECD)

#### 12.3. Bioaccumulative potential

No information available.

#### Partition coefficient n-octanol/water

| CAS No   | Chemical name          | Log Pow |
|----------|------------------------|---------|
| 64-17-5  | ethanol, ethyl alcohol | -0,31   |
| 106-97-8 | butane                 | 2,89    |
| 74-98-6  | propane                | 2,36    |

#### 12.4. Mobility in soil

No information available.

Chemical Oxygen Demand (COD): not determined

Biochemical oxygen demand (BOD): not determined

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

#### Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Recommendation:



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#### List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1  
  
Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0  
Transport category: 2  
Tunnel restriction code: D



#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1



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Special Provisions: 63, 190, 277, 327, 344, 381, 959  
 Limited quantity: 1000 mL  
 Excepted quantity: E0  
 EmS: F-D, S-U

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

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS, FLAMMABLE  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
 Hazard label: 2.1



Special Provisions: A145 A167 A802  
 Limited quantity Passenger: 30 kg G  
 Passenger LQ: Y203  
 Excepted quantity: E0  
 IATA-packing instructions - Passenger: 203  
 IATA-max. quantity - Passenger: 75 kg  
 IATA-packing instructions - Cargo: 203  
 IATA-max. quantity - Cargo: 150 kg

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

No information available.

#### 14.7. Maritime transport in bulk according to IMO instruments

not determined

### SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 40

2004/42/EC (VOC): 100 % (784 g/l)

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

section 1, 16

#### Abbreviations and acronyms

ADN: Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route

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(European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

EC50: medium effective concentration

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

ErC50: medium effective concentration (plants, algae)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NOEC: No observed effect concentration

PNEC: Predicted No Effect Concentration

RID: Règlement concernant le transport international ferroviaire de marchandises da

**Key literature references and sources for data**

General review and adaption to regulation (EC) 2020/878

**Relevant H and EUH statements (number and full text)**

|      |                                             |
|------|---------------------------------------------|
| H220 | Extremely flammable gas.                    |
| H222 | Extremely flammable aerosol.                |
| H225 | Highly flammable liquid and vapour.         |
| H229 | Pressurised container: May burst if heated. |
| H319 | Causes serious eye irritation.              |

**Further Information**

Data sources: safety data sheets of raw materials

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*