

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**NORD-TEST Rot 3000 Spray**

Print date: 18.08.2016

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

NORD-TEST Rot 3000 Spray

**Further trade names**

Article no. (user):

121.300.301

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

Penetration test

**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:** +49-4122-922-0 (8:00 - 16:00)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Aerosol: 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****Hazard components for labelling**

3',6'-bis(diethylamino)spiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one

**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.

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to industrial incineration plant.

#### 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 according to Regulation (EC) No. 1272/2008 [CLP]			
106-97-8	butane			25-30 %
	203-448-7	601-004-00-0		
	Flam. Gas 1; H220			
111-90-0	2-(2-ethoxyethoxy)ethanol			10 - 12 %
	203-919-7		02-2119679655-21	
74-98-6	propane			7 - 10 %
	200-827-9	601-003-00-5		
	Flam. Gas 1; H220			
64-17-5	ethanol, ethyl alcohol			1 - 4 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
509-34-2	3',6'-bis(diethylamino)spiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one			1,4 - 1,8 %
	208-096-8			
	Acute Tox. 4, Eye Irrit. 2, Aquatic Chronic 3; H302 H319 H412			

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

### 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 all cases of doubt, or when symptoms persist, seek medical advice.

##### 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.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

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

No information available.

**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**

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**

Combustible. Vapours may form explosive mixtures with air.

Heating causes rise in pressure with risk of bursting.

**5.3. Advice for firefighters**

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

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

**6.2. Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Explosion hazard.

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

Ventilate affected area.

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

**6.4. Reference to other sections**

Disposal: see section 13.

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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/vapour/aerosol. When using do not eat, drink or smoke. Use only in well-ventilated areas.

**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.

**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.

**Advice on storage compatibility**

Do not store together with: Oxidising agent

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

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Please refer to our internet website for more information: [www.hellinggmbh.de](http://www.hellinggmbh.de)

## 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
		-	-		STEL (15 min)	WEL

### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation. Do not breathe gas/vapour/aerosol.

#### Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

Before starting work, apply solvent-resistant skincare preparations.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

#### 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:	red
Odour:	characteristic

#### Test method

pH-Value:	not applicable
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#### Changes in the physical state

Melting point:	not applicable
Initial boiling point and boiling range:	not applicable
Flash point:	not determined
Lower explosion limits:	not determined

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Upper explosion limits:	not determined
Ignition temperature:	not determined
Vapour pressure: (at 20 °C)	3600 hPa
Density (at 20 °C):	0,698 g/cm <sup>3</sup>
Water solubility:	emulsifiable
<b>Solubility in other solvents</b> not determined	
Partition coefficient:	not determined
Viscosity / dynamic:	not applicable
Viscosity / kinematic:	not applicable
Solvent separation test:	not applicable
Solvent content:	< 12 %

**9.2. Other information**

No information available.

**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**

Vapours may form explosive mixtures with air.

**10.4. Conditions to avoid**

Keep away from heat. Ignition hazard.

**10.5. Incompatible materials**

Oxidizing agents, strong.

**10.6. Hazardous decomposition products**

Carbon dioxide. Carbon monoxide.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

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#### Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
111-90-0	2-(2-ethoxyethoxy)ethanol			
	oral	LD50 5540 mg/kg	Rat	
	dermal	LD50 5940 mg/kg	Rat	
	inhalative (4 h) vapour	LC50 > 5,2 mg/l	Rat	
64-17-5	ethanol, ethyl alcohol			
	oral	LD50 10470 mg/kg	Rat	OECD 401
	dermal	LD50 > 2000 mg/kg	Rabbit	OECD 402
	inhalative (4 h) vapour	LC50 117 - 125 mg/l	Rat	OECD 403
509-34-2	3',6'-bis(diethylamino)spiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one			
	oral	LD50 1830 mg/kg	Rat	

#### Irritation and corrosivity

slightly irritant but not relevant for classification.

#### Sensitising effects

No sensitizing effect known.

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

According to current knowledge not a carcinogen. According to current knowledge not mutagen. According to current knowledge not reproduction toxic.

#### STOT-repeated exposure

No data available

### SECTION 12: Ecological information

#### 12.1. Toxicity

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
111-90-0	2-(2-ethoxyethoxy)ethanol				
	Acute fish toxicity	LC50 12900 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EC50 3940 mg/l	48 h	Daphnia magna	
64-17-5	ethanol, ethyl alcohol				
	Acute fish toxicity	LC50 13000 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203
	Acute algae toxicity	ErC50 12900 mg/l		Scenedesmus subspicatus	OECD 201
	Acute crustacea toxicity	EC50 12340 mg/l	48 h	Daphnia magna	
509-34-2	3',6'-bis(diethylamino)spiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one				
	Acute fish toxicity	LC50 40 mg/l	96 h	Leuciscus idus (golden orfe)	

#### 12.2. Persistence and degradability

The product has not been tested.

Part of the components is biodegradable.

#### 12.3. Bioaccumulative potential

The product has not been tested.

No indication of bioaccumulation potential.

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#### Partition coefficient n-octanol/water

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

#### 12.4. Mobility in soil

No information available.

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

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other adverse effects

Do not empty into drains.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

Dispose of waste according to applicable legislation.

##### Waste disposal number of waste from 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  
Classified as hazardous waste.

##### Waste disposal number of 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

Water (with cleaning agent). Completely emptied packages can be recycled.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
 Hazard label: 2.1



Classification code: 5F  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L  
 Transport category: 2  
 Tunnel restriction code: D

#### Other applicable information (land transport)

#### Inland waterways transport (ADN)

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS

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#### **14.3. Transport hazard class(es):**

2

Hazard label:

2.1



Classification code:

5F

Special Provisions:

190 327 344 625

Limited quantity:

1 L

**Other applicable information (inland waterways transport)**

#### **Marine transport (IMDG)**

##### **14.1. UN number:**

UN1950

##### **14.2. UN proper shipping name:**

AEROSOLS

##### **14.3. Transport hazard class(es):**

2

##### **14.4. Packing group:**

-

Hazard label:

2, see SP63



Special Provisions:

63, 190, 277, 327, 344, 959

Limited quantity:

See SP277

EmS:

F-D, S-U

**Other applicable information (marine transport)**

#### **Air transport (ICAO)**

##### **14.1. UN number:**

UN1950

##### **14.2. UN proper shipping name:**

AEROSOLS, flammable

##### **14.3. Transport hazard class(es):**

2.1

Hazard label:

2.1



Special Provisions:

A145 A167 A803

Limited quantity Passenger:

30 kg G

IATA-packing instructions - Passenger:

203

IATA-max. quantity - Passenger:

75 kg

IATA-packing instructions - Cargo:

203

IATA-max. quantity - Cargo:

150 kg

**Other applicable information (air transport)**

E0

Passenger-LQ: Y203

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

#### **14.6. Special precautions for user**

No information available.

#### **14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

none



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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 38 % (265,24 g/l)

**Additional information**

aerosol directive (75/324/EEC).

Safety data sheet available for professional user on request.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Keep out of the reach of children.

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

2-(2-ethoxyethoxy)ethanol

ethanol, ethyl alcohol

**SECTION 16: Other information****Changes**

section 7

**Abbreviations and acronyms**ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**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.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

**Further Information**

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.

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