

# Safety data sheet

according to Regulation (EC) No 1907/2006, Annex II

Date of printing: 01.01.2018

Identcode: 22

Revision: 01.01.2018

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

- **Trade name:** Forstmarkierfarbe Neon, LOS5602, 5603, 5604, 5605, 5606, 5607

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### - Sector of Use:

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services,

#### - Application of the substance / the preparation: color spray

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

- **Manufacturer/Supplier:** EURO-LOCK Vertriebs-GmbH

Nordweststr. 3

D-59387 Ascheberg

Tel.: +49 (0) 2593 95887-0

info@euro-lock.de

www.euro-lock.de

- **Further information obtainable from:** +49 (0) 2593 95887-0

### 1.4. Emergency telephone number:

+49 (0) 2593 95887-0

Monday to Thursday 8:00 - 17:00 CET, Friday 8:00 - 13:00 CET

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

- **Classification according to Regulation (EC) Nr. 1272/2008**

*Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.*

*Eye Irrit. 2 H319 Causes serious eye irritation..*

*STOT SE. 3 H336 May cause drowsiness or dizziness.*

### 2.2. Label elements

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.



- **Hazard pictograms** GHS02

GHS07

- **Signal word** Danger

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

*Ethylacetat, n-Butylacetat*

- **Hazard statements**

*H222-229 Extremely flammable aerosol. Pressurised container: May burst if heated.*

*H319 Causes serious eye irritation.*

*H336 May cause drowsiness or dizziness*

*EUH066 Repeated exposure may cause skin dryness or cracking.*

*EUH018 In use may form flammable/explosive vapour-air mixture.*

- **Precautionary statements**

*P101 If medical advice is needed, have product container or label at hand.*

*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.*

*P260 Do not breathe spray.*

*P262 Do not get in eyes, on skin, or on clothing.*

*P271 Use only outdoors or in a well-ventilated area.*

*P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.*

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*P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*P403 Store in a well-ventilated place.*

*P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.*

*P501 Dispose of contents / container in accordance with local regulations.*

## 2.3. other hazards










**-Results of PBT and vPvB assessment- PBT:** Not applicable-**vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **Chemical characterisation:** Mixtures

- **Description:** · Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS-No. EINECS-No. INDEX-No.	Description	Symbol	%
109-87-5 203-714-2	Methylal		10-20
01-2119664781-31-xxxx	 <i>Entz. Fl. 2, H225;</i>		
123-86-4 204-658-1	n-butyl acetate		5-15
607-025-00-1	 <i>Flam. Liq. Fl. 3, H226;</i>  <i>STOT SE. 3, H336</i>		
141-78-6 205-500-4	ethyl acetate		5-15
607-022-00-5	 <i>Flam.Liq. 2, H225;</i>  <i>Eye Irrit. 2, H319; STOT SE 3,H336</i>		
74-98-6 200-827-9	propane liquefied		5-15
601-003-00-5	 <i>Flam. Gas 1, H220;</i>  <i>Press.Gas, H280</i>		
106-97-8 203-448-7	butan, pure (<0,1% Butadien)		15-30
601-004-00-0	 <i>Flam. Gas 1, H220;</i>  <i>Press.Gas , H280</i>		

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

## 4.First aid measures

### 4.1. Description of first aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**

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

No further relevant information available.

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

No further relevant information available.

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**5. Fire-fighting measures****- Extinguishing media****- Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**- For safety reasons unsuitable extinguishing agents:** Water with full jet**- Special hazards arising from the substance or mixture** No further relevant information available.**- Advice for firefighters****- Protective equipment:** No special measures required.**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**6.2. Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

**6.3. Methods and material for containment and cleaning up:** Ensure adequate ventilation.**6.4. Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**7. Handling and storage****7.1. Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.**- Information about fire - and explosion protection:**

Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke.

**7.2. Conditions for safe storage, including any incompatibilities****- Storage:****- Requirements to be met by storerooms and receptacles:**

Store in a cool location. TRGS 510. Observe official regulations on storing packagings with pressurized containers.

**- Information about storage in one common storage facility:** Not required.**- Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

Recommended storage temperature: 10-30 °C.

**- Warehouse class:** 2B**7.3. Specific end use(s)** No further relevant information available.**8. Exposure controls/personal protection****- Additional information about design of technical facilities:** No further data; see item 7.**8.1. Control parameters****- Ingredients with limit values that require monitoring at the workplace:**

CAS-No.	Name of the substance	%	Type	Value	Unit
109-87-5	Methylal	10-20	MAK	3100 1000	mg/m <sup>3</sup> ml/m <sup>3</sup>
123-86-4	n-butyl acetate	5-15	MWC	300 62	mg/m <sup>3</sup> ppm
141-78-6	ethyl acetate	5-15	MWC	1500 400	mg/m <sup>3</sup> ppm
74-98-6	propane liquefied	5-15	MWC	1800 1000	mg/m <sup>3</sup> ppm
106-97-8	butane, pure	15-30	MWC	2400 1000	mg/m <sup>3</sup> ppm

(\*MWC = Maximum Workplace Concentration, WEL (Great Britain Long-term value))

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- **Additional information:** The lists valid during the making were used as basis.

## 8.2. Exposure controls

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.

- **Respiratory protection:**

Not necessary if room is well-ventilated. When used properly and under normal conditions, breathing protection is not required.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **As protection from splashes gloves made of the following materials are suitable:**

Nitrilkautschuk or Butylkautschuk

- **Eye protection:** Tightly sealed goggles



- **Body protection:** Light weight protective clothing

## 9. Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

- **Form:** Aerosol

- **Colour:** in accordance with product description

- **Odour:** Characteristic

- **Odour threshold:** Not determined

- **pH-value:** Not applicable for an aerosol

- **Change in condition**

- **Melting point/Melting range:** Undetermined.

- **Boiling point/Boiling range:** Not applicable, as aerosol.

- **Flash point:** Not applicable, as aerosol.

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 490° Celsius

- **Decomposition temperature:** Not determined.

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Protect from sunlight and temperatures above 50 °C. Development of explosive vapor / air mixtures.

- **Explosion limits:** lower: 1,5 volume % upper: 9,5 volume %

- **Vapour pressure:** at 20° C 3-4 bar at 50° C 10,4 bar

- **Density:** at 20° C 0.95 g/ml lacquer

- **Relative density** Not determined. - **Vapour density** Not determined.

- **Evaporation rate** Not applicable.

- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

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- **Viscosity:** Dynamic: Not determined. Kinematic: Not determined.

- **Solvent content:** VOC (EC) 68 % 340 gr per can 500ml, 680 gr per l

**9.2 other information:** No further relevant information available.

## 10. Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**10.3. Possibility of hazardous reactions** No dangerous reactions known.

**10.4. Conditions to avoid** No further relevant information available.

**10.5. Incompatible materials:** No further relevant information available

**10.6. Hazardous decomposition products:** No dangerous decomposition products known.

## 11. Toxicological information

### 11.1. Information on toxicological effects

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

"-Einstufungsrelevante LD/LC50-Werte"		
<b>109-87-5 Methylal</b>		
Oral	LD50	6950 mg/kg mouse
Dermal	LD50	> 5000 mg/kg (rabbit)
Inhalativ	LC50	15000 mg/l (rat)
<b>123-86-4 n-Butylacetat</b>		
Oral	LD50	10760 mg/kg rat
Dermal	LD50	>14112 mg/kg (rabbit)
Inhalativ	LC50/4 h	23,4 mg/l (rat)
<b>141-78-6 Ethylacetat</b>		
Oral	LD50	5600 mg/kg rat
Dermal	LD50	>1800 mg/kg (rabbit)
<b>106-97-8 Butan</b>		
Inhalativ	LC50/4 h	658 mg/l (rat)
<b>74-98-6 Propan</b>		
Inhalativ	LC50/4 h	> 20 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:** No irritant effect. - **on the eye:** irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

## 12. Ecological information

### 12.1. Toxicity

- **Aquatic toxicity**

<b>109-87-5 Methylal</b>	
EC50/48 h	> 1200 mg/l (daphnia magna)
LC50/96 h	>1000 mg/l (Fisch)
<b>141-78-6 Ethylacetat</b>	
EC50	717 mg/l (Daphnia) (48h), 230 mg/l (Fisch) (96h)
IC50	3300 mg/l (Algen) (48h)

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<b>123-86-4 n-Butylacetat</b>	
EC50/24 h	73 mg/l (daphnia magna)
EC50/48 h	44 mg/l (daphnia magna)
EC50/72 h	647,7 mg/l (S)
LC50(96h)	18 mg/l (Pimephales promelas)

**12.2. Persistence and degradability** No further relevant information available.

**12.3. Bioaccumulative potential** No further relevant information available.

**12.4. Mobility in soil** No further relevant information available.

**- Additional ecological information:**

**- General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**12.5.-Results of PBT and vPvB assessment- PBT:** Not applicable-**vPvB:** Not applicable.

**12.6. Other adverse effects** No further relevant information available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

**- Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.



**- European waste catalogue**

08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
15 01 04	metallic packaging
15 01 11	metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

**- Uncleaned packaging:**

**- Recommendation:** Disposal must be made according to official regulations.

## 14. Transport information

<b>14.1 UN-Number</b> · ADR, IMDG, IATA	UN1950
<b>14.2 UN proper shipping name</b> · ADR · IMDG · IATA	1950 AEROSOLS, AEROSOLS AEROSOLS, flammable
<b>14.3 Transport hazard class(es)</b> · ADR 	
· Class · Label	2 5F Gases. 2.1
· IMDG, IATA 	
· Class · Label	2.1 2.1
<b>14.4 Packing group</b> · ADR, IMDG, IATA	Void
<b>14.5. Environmental hazards:</b> · Marine pollutant:	No

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<b>14.6. Special precautions for user</b>	Warning: Gases.
· <b>Danger code (Kemler):</b>	-
· <b>EMS Number:</b>	F-D,S-U
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D
· <b>UN "Model Regulation":</b>	UN1950, AEROSOLS, 2.1,

## 15. Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** No further relevant information available.

**15.2. Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may be explode if heated.

H 319 Causes serious eye irritation.

H 336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

### -Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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 (division of the American Chemical Society)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

Flam. Gas 1: Flammable gases, Hazard Category 1 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3