

**SECTION 1: Identification of the substance/mixture and of the company/
undertaking****1.1 Product identifier****Trade name** **REVELL SPRAY COLOR****Article number:**

Dreisol:

mat:

R3600-0102; R3600-1115; R3600-1116; R3600-1188; R3600-2125; R3600-3136;
R3600-5156; R3600-6149; R3600-7109; R3600-7157; R3600-7176; R3600-7178;
R3600-8185; R3600-9105; R3600-9108; R3600-9190; R3600-9191; R3600-9194

satin:

R3620-3300; R3620-7371; R3620-7374; R3620-9301; R3620-9302

glossy:

R3680-0101; R3680-1112; R3680-3131; R3680-3134; R3680-5152; R3680-5200;
R3680-9104; R3680-9107

Revell:

mat:

34102; 34115; 34116; 34188; 34125; 34136; 34156; 34146; 34109; 34157; 34176;
34178; 34185; 34105; 34108; 34190; 34191; 34194; 34199

satin:

34330; 34371; 34374; 34301; 34302

glossy:

34101; 34112; 34131; 34134; 34152; 34200; 34104; 34107

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

No further relevant information available.

Application of the substance / the mixture

toy lacquer

repair-spray for imperfection of varnished undergrounds.

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:**

Dreisol Coatings GmbH & Co.KG.

Industriestraße 4

D-32361 Pr. Oldendorf-Bad Holzhausen

Tel.: +49(0)5742-9300-0(Zentrale)

Fax : +49(0)5742-9300-49

E-Mail: mail@dreisol.de<http://www.dreisol.de>

Revell GmbH

Henschelstr. 20-30

D-32257 Bünde

Tel.: +49(0)5223-965-0

<http://www.revell.de>**Informing department:**

department product safety

e-mail adress of competent person:

Tel.: +49(0)5742/9300-41

sdb@dreisol.de**1.4 Emergency telephone number:** Poison Information Centre (GIZ-Nord): Tel.: +49(0)551-19240

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SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

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



GHS07

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

Asp. Tox. 1 H304 *May be fatal if swallowed and enters airways.*

Aquatic Chronic 3 H412 *Harmful to aquatic life with long lasting effects.*

- **Additional information:**

A marking with aspiration GHS 08 and H304 is in accordance with Regulation (EC) No 1272/2008 Annex I Nr. 1.3.3. not necessary (aerosol packaging)

- **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:**
Naphtha (petroleum), hydrotreated light
- **Hazard statements**
H222-H229 *Extremely flammable aerosol. Pressurised container: May burst if heated.*
H336 *May cause drowsiness or dizziness.*
H412 *Harmful to aquatic life with long lasting effects.*
- **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.*
P405 *Store locked up.*
P410+P412 *Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.*
P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

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- **Labelling of packages where the contents do not exceed 125 ml**
- **Hazard pictograms**



GHS02 GHS07

- **Signal word Danger**
- **Hazard-determining components of labelling:**
Naphtha (petroleum), hydrotreated light
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.
- **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.
P405 Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:**
Paint mixture based on acryl-copolymer and/or pigment/extender with the following components.

· **Dangerous components:**

CAS: 115-10-6 EINECS: 204-065-8	dimethyl ether ⚠ Flam. Gas 1, H220 ⚠ Press. Gas C, H280	50 - 100%
EC number: 920-750-0	Naphtha (petroleum), hydrotreated light ⚠ Flam. Liq. 2, H225 ⚠ Asp. Tox. 1, H304 ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	15-<20%
CAS: 64-17-5 EINECS: 200-578-6	ethanol ⚠ Flam. Liq. 2, H225	7-<10%
CAS: 64742-95-6 EC number: 918-668-5	Solvent naphtha (petroleum), light arom. ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ Aquatic Chronic 2, H411 ⚠ STOT SE 3, H335-H336	7-<10%
CAS: 110-12-3 EINECS: 203-737-8	5-methylhexan-2-one ⚠ Flam. Liq. 3, H226 ⚠ Acute Tox. 4, H332	5.0-7.0%

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· Additional information

**) Benzene content is less than 0.1% (EINECS-No. 200-753-7). It is P. Note
Contains no other ingredients ($\geq 0,1\%$) that are classified as hazardous to health or the environment according to the current knowledge of the supplier and must be mentioned in this section.
The wording of the listed risk phrases refer to section 16.*

SECTION 4: First aid measures**· 4.1 Description of first aid measures**

· General information Remove contaminated, saturated clothing immediately.

· After inhalation

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

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

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· After swallowing Do not induce vomiting; instantly call for medical help.

SECTION 5: Firefighting measures**· 5.1 Extinguishing media****· Suitable extinguishing agents**

recommended: foam (if necessary alcohol resistant), carbon dioxide, extinguishing powder

· For safety reasons unsuitable extinguishing agents Water.

· 5.2 Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazards.

· 5.3 Advice for firefighters

· Protective equipment: Wear self-contained breathing apparatus.

· Additional information

Cool closed containers exposed to fire with water.

Do not allow run-off from fire fighting to enter drains or water courses.

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

Remove all sources of ignition. Provide adequate ventilation. Refer to protective measurer, listed in sections 7 and 8.

· 6.2 Environmental precautions:

Do not allow product to enter into sewerage systems or water bodies.

Inform respective authorities in case of product reaches water or sewage systems.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 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 information on disposal.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at working place.

Keep containers tightly sealed.

Avoid contact with skin and eyes.

Information about protection against explosions and fires:

Protect against electrostatic charges.

Keep ignition sources away - Do not smoke.

Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50°C.

Do not open by force or throw into fire even after use.

Do not spray on flames or red-hot objects.

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixture with air.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by warehouses and containers:

Store in cool location.

Store only in the original container.

Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility:

Keep away from foodstuffs, beverages and food.

Further information about storage conditions:

Do not seal container gastight.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

Storage class 2 B

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems:

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

115-10-6 dimethyl ether

WEL (Great Britain)	Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
IOELV (European Union)	Long-term value: 1920 mg/m ³ , 1000 ppm

64-17-5 ethanol

WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
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110-12-3 5-methylhexan-2-one

WEL (Great Britain)	Short-term value: 475 mg/m ³ , 100 ppm Long-term value: 95 mg/m ³ , 20 ppm Sk
IOELV (European Union)	Long-term value: 95 mg/m ³ , 20 ppm

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· **DNELs**

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	DNEL	11 mg/kg/day (General population, long-term exposure)
Dermal	DNEL	11 mg/kg/day (General population, long-term exposure)
		25 mg/kg/day (Workers, long-term exposure)
Inhalative	DNEL	32 mg/m ³ (General population, long-term exposure)
		150 mg/m ³ (Workers, long-term exposure)

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Instantly remove any spoiled and impregnated garments.

After skin contact clean with water and soap or use appropriate detergents . Do not use organic solvent.

· **Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus, independent of circulating air.

Filter A/P2.

· **Protection of hands:**

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect the exposed areas of the skin.

· **Material of gloves**

Nitrile rubber or fluorine rubber (0.4 mm). Breakthrough time > 480min with full contact. Notice., The information provided by the glove manufacturer to permeability and breakthrough times and the specific workplace conditions When cracking or change in color, shape or elasticity, the gloves should be changed immediately.

· **Eye protection:** Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Aerosol
· Colour:	According to product specification
· Smell:	Characteristic
· Odour threshold:	Not determined.

· **Flash point:** -42 °C (DIN/ISO 3679)

· **Inflammability (solid, gaseous)** Not applicable.

· **Ignition temperature:** 235 °C (DIN 51794)

· **Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not self-igniting.

· **Explosive properties:** Not determined.

· **Critical values for explosion:**

· **Lower:** 0.1 Vol %

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Upper:	27.7 Vol %
· Density at 20 °C	0.82 g/cm ³ (DIN/ISO 2811)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Viscosity: dynamic:	Not determined.
kinematic:	Not determined.
· Solvent content:	
Organic solvents:	84.1 %
Water:	0.0 %
· Solids content:	10.6 %
· 9.2 Other information	The values of specific gravity and viscosity are an orienting information.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Stable under recommended storage and handling conditions (see section 7).
Hazardous products of decomposition could result at high temperatures.
- **10.3 Possibility of hazardous reactions**
In case of completely combustion toxic gases are developed including carbon monoxide.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Strong oxidizing agent.
Strong acids and bases
- **10.6 Hazardous decomposition products:**
such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.
- **Additional information:** Protect from head, fire and electrostatic.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
There are no data available on the preparation itself.
The mixture is classified under Regulation No 1272/2008 = CLP (EU-GHS) Regulation and the toxicological hazards. See Section 3 and 15 for details.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Other observations:**
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system.

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Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

The liquid splashed in the eyes may cause irritation and reversible damage.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

64742-95-6 Solvent naphtha (petroleum), light arom.

EC50	>100 mg/l (bacteria)
EC50/48h	3.2 mg/l (daphnia magna (Wasserfloh))
EC50/72h	2.9-2.9 mg/l (algae)
EC50/96h	9.2 mg/l (fish)

- **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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Other information:** There are no data available on the preparation itself.
- **Additional ecological information:**
- **General notes:**
Harmful to aquatic organisms
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage systems.
Danger to drinking water if even small quantities leak into soil.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

The respective EU-directives, as well as local, regional and national instructions, should be paid attention to.

Must not be disposed of together with household garbage. Do not allow product to enter into sewage systems.

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- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
Emptied containers are to be scrap processed or reconditioned. Vessels not properly emptied are special waste (Waste code no. 150110).

SECTION 14: Transport information

- **14.1 UN-Number**
· **ADR, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
· **ADR** 1950 AEROSOLS
· **IMDG** AEROSOLS
· **IATA** AEROSOLS, flammable
- **14.3 Transport hazard class(es)**
· **ADR**
 2
· **Class** 2 5F Gases.
· **Label** 2.1

- **IMDG, IATA**
 2
· **Class** 2.1
· **Label** 2.1
- **14.4 Packing group**
· **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:**
· **Marine pollutant:** No
- **14.6 Special precautions for user** Warning: Gases.
· **Kemler Number:** -
· **EMS Number:** F-D,S-U
· **Stowage Code** SW1 Protected from sources of heat.
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

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· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	120 ml
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	1
· Tunnel restriction code	D
· Transport in accordance with ADR/RID, IMDG and ICAO/IATA.	
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40
- **National regulations**
- **Water hazard class:**
Water hazard class 2 (Self-assessment): hazardous for water.
(AwSV 2017)
- **VOC value EC %:** 84.07 %
- **Switzerland VOC value:** 68.24 %
- **VOC (EU)** 689.4 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product : it is not to be considered as a guarantee of the products' properties.

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· Relevant phrases*Danger notes of the contents substances listed under item 3.**H220 Extremely flammable gas.**H225 Highly flammable liquid and vapour.**H226 Flammable liquid and vapour.**H280 Contains gas under pressure; may explode if heated.**H304 May be fatal if swallowed and enters airways.**H315 Causes skin irritation.**H332 Harmful if inhaled.**H335 May cause respiratory irritation.**H336 May cause drowsiness or dizziness.**H411 Toxic to aquatic life with long lasting effects.***· Department issuing data specification sheet: department product safety****· 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 Harmonised 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)**DNEL: Derived No-Effect Level (REACH)**Flam. Gas 1: Flammable gases – Category 1**Aerosol 1: Aerosols – Category 1**Press. Gas C: Gases under pressure – Compressed gas**Flam. Liq. 2: Flammable liquids – Category 2**Flam. Liq. 3: Flammable liquids – Category 3**Acute Tox. 4: Acute toxicity – Category 4**Skin Irrit. 2: Skin corrosion/irritation – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Asp. Tox. 1: Aspiration hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*