

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printingdate 06.08.2007

Revision: 30.07.2007

1 Identification of the substance/preparation and of the company/undertaking

Product details**Trade name:** Metaflux RAL Colour-Spray**Article number:** 70-90**Application of the substance / the preparation** Lackierung**Manufacturer/Supplier:**

TECHNO-SERVICE GmbH

Detmolder Str. 515

D-33605 Bielefeld

- **Further information obtainable from:** Product safety department
- **Information in case of emergency:** Tel.: +49 (0) 521-924440

2 Hazards identification

Hazard description:*Xi Irritant**F+ Extremely flammable***Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurized container.

R 12 Extremely flammable.

R 18 In use, may form flammable/explosive vapour-air mixture.

R 36 Irritating to eyes.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

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

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

Chemical characterization

Description: Lacquer on the basis of the following fillers, resins and other components.

Dangerous components:

CAS: 67-64-1 EINECS: 200-662-2	acetone Xi, F; R 11-36-66-67	25-50%
CAS: 106-97-8 EINECS: 203-448-7	butane (containing $\geq 0,1\%$ butadiene (203-450-8)) F+; R 12	10-25%

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CAS: 74-98-6 EINECS: 200-827-9	propane F+; R 12-18	10-25%
CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate R 10-66-67	5-10%
CAS: 1330-20-7 EINECS: 215-535-7	xylene Xn, Xi; R 10-20/21-38	2.5-5%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate Xi; R 10-36	2.5-5%
CAS: 71-36-3 EINECS: 200-751-6	butan-1-ol Xn, Xi; R 10-22-37/38-41-67	≤ 2.5%

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

4 First-aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

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

After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Cool container with water

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards caused by the substance, its products of combustion or resulting gases:

Can form explosive gas-air mixtures.

Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

7 Handling and storage

Handling:

Information for safe handling:

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Take note of emission threshold.

Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about fire - and explosion protection:

Do not spray onto naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

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Pressurizedcontainer: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Donot pierce or burn, even after use.

- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings withpressurizedcontainers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat anddirect sunlight.

8Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoringat the workplace:

67-64-1 acetone

WEL ()	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
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106-97-8 butane (containing ≥ 0,1 % butadiene (203-450-8))

WEL ()	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1%of buta-1.3-diene)
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123-86-4 n-butyl acetate

WEL ()	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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1330-20-7 xylene

WEL ()	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
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108-65-6 2-methoxy-1-methylethyl acetate

WEL ()	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
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71-36-3 butan-1-ol

WEL ()	Short-term value: 154 mg/m ³ , 50 ppm Sk
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Additional information: The lists valid duringthe making were used as basis.

Personal protective equipment:

General protective andhygienic measures:

Keep away from foodstuffs, beverages andfeed.
Immediately remove all soiled and contaminated clothing
Washhands before breaks and at the end of work.
Donot inhale gases / fumes / aerosols.
Avoid contact withthe eyes.
Avoid contact withthe eyes andskin.

Respiratory protection:

Use suitable respiratory protective device incase of insufficient ventilation.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Half mask with combination filter, class A1P2 minimum, or breathing mask with outer air supply.

Protection of hands:

The glove material has to be impermeable andresistant tothe product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves** Nitrile rubber, NBR

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- **Penetration time of glove material**
Gloves must be changed after every contamination.
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

General Information

Form: Aerosol
Colour: Various colours
Odour: Characteristic

- **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: -44°C

- **Flash point:** -4°C
Without propellant gas.

- **Ignition temperature:** 365.0°C

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

- **Danger of explosion:** Inuse, may form flammable/explosive vapour-air mixture.
Not determined

- **Explosion limits:**

Lower: 1.5 Vol %
Upper: 13.0 Vol %

- **Vapour pressure at 20°C:** 3600.0 hPa

- **Density at 20°C:** 0.75000 g/cm³

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

- **Solvent content:**

Organic solvents: 83.9 %
With propellant gas. Content given by weight.

- **Solids content:** 16.1 %

10 Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions Reacts with acids, alkalis and oxidizing agents.

Dangerous decomposition products: Possible in traces.

11 Toxicological information

Acute toxicity:

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

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- **on the eye:** Irritatingeffect.
- **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

General notes: Water hazard class 1 (GermanRegulation) (Self-assessment): slightly hazardous for water

13 Disposal considerations

Product:

Recommendation

Must not be disposed together with householdgarbage. Do not allowproduct to reach sewage system.

Empty aerosols can be disposedwith the ordinary waste.

European waste catalogue

1501 10	packaging containingresidues of or contaminatedby dangerous substances
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Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID (cross-border)



- **ADR/RIDclass:** 2 5F Gases.
- **Danger code (Kemler):** 23
- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label** 2.1
- **Description of goods:** 1950 AEROSOLS
- **Limited quantities (LQ)** LQ1
- **Transport category** 2
- **Tunnel restriction code** B1D

Maritime transport IMDG:



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No

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Trade name: **Metaflux RAL Colour-Spray 70-90**

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• **Proper shipping name:** AEROSOLS• **Air transport ICAO-TI and IATA-DGR:**

• **ICAO/IATA Class:** 2.1
 • **UN/IDNumber:** 1950
 • **Label:** 2.1
 • **Packaging group:** -
 • **Proper shipping name:** AEROSOLS, flammable

15 Regulatory information

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



Xi Irritant

F+ Extremely flammable

Risk phrases:

12 Extremely flammable.
 18 Inuse, may form flammable/explosive vapour-air mixture.
 36 Irritating to eyes.
 66 Repeated exposure may cause skin dryness or cracking.
 67 Vapours may cause drowsiness and dizziness.

Safety phrases:

2 Keep out of the reach of children.
 3/7 Keep container tightly closed in a cool place.
 23 Do not breathe aerosol.
 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
 46 If swallowed, seek medical advice immediately and show this container or label.
 51 Use only in well-ventilated areas.

• Special labelling of certain preparations:

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

• National regulations:

• Technical instructions (air):

Class	Share in %
NK	50-100

• **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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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 R-phrases**

- 10 Flammable.
- 11 Highly flammable.
- 12 Extremely flammable.
- 18 In use, may form flammable/explosive vapour-air mixture.
- 20/21 Harmful by inhalation and in contact with skin.
- 22 Harmful if swallowed.
- 36 Irritating to eyes.
- 37/38 Irritating to respiratory system and skin.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

• **Department issuing MSDS: Product safety department**

GB