

# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

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# BOCK

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture  
Product name : Farbspray RAL5000 Violet-blue  
UFI : -

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Varnish

#### 1.2.2. Uses advised against

No additional information available

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

#### Supplier

BOCK GmbH  
Benzstraße 7  
72636 Frickenhausen - Germany  
T: +49 7022 9454 0  
Mail: info@bock.de

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: sds@dlac-gmbh.de

### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency telephone number
GERMANY	Giftinformationszentrum-Nord Zentrum Pharmakologie und Toxikologie der Universität Göttingen	Robert-Koch Strasse 40 D-37075 Göttingen	+49 551 19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol, Category 1 H222;H229  
Serious eye damage/eye irritation, Category 2 H319  
Specific target organ toxicity — Single exposure, Category 3, Narcosis H336  
Carcinogenicity, Category 2 H351  
Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Extremely flammable aerosol. Pressurised container: May burst if heated. May cause drowsiness or dizziness. Causes serious eye irritation. Suspected of causing cancer.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

Signal word (CLP) :

Danger

Hazardous ingredients :

Acetone, 4-Methylpentan-2-one, n-Butyl acetate

Hazard statements (CLP) :

H222 - Extremely flammable aerosol  
H229 - Pressurised container: May burst if heated  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
H351 - Suspected of causing cancer

Precautionary statements (CLP) :

P101 - If medical advice is needed, have product container or label at hand  
P102 - Keep out of reach of children  
P103 - Read label before use  
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

# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

P271 - Use only outdoors or in a well-ventilated area  
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  
P312 - Call a POISON CENTER/doctor if you feel unwell  
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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 %.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetone, propan-2-one, propanone	(CAS no) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8 (REACH no) 01-2119471330-49-xxxx	25 - < 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Butane	(CAS no) 106-97-8 (EC no) 203-448-7 (EC index no) 601-004-00-0 (REACH no) 01-2119474691-32-xxxx	10 - < 25	Flam. Gas 1, H220 Press. Gas Compressed gas, H280
Propane	(CAS no) 74-98-6 (EC no) 200-827-9 (EC index no) 601-003-00-5 (REACH no) 01-2119486944-21-xxxx	10 - < 25	Flam. Gas 1, H220 Compressed gas, H280
n-Butyl acetate	(CAS no) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1 (REACH no) 01-2119485493-29-xxxx	5 - < 10	Flam. Liq. 3, H226 STOT SE 3, H336
Cellulose nitrate	(CAS no) 9004-70-0	5 - < 10	Expl. 1.1, H201
Xylene	(CAS no) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 (REACH no) 01-2119488216-32-xxxx	5 - < 10	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
2-Methoxy-1-methylethyl acetate	(CAS no) 108-65-6 (EC no) 203-603-9 (EC index no) 607-195-00-7 (REACH no) 01-2119475791-29-xxxx	2.5 - < 5	Flam. Liq. 3, H226
Ethanol, ethyl alcohol	(CAS no) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5 (REACH no) 01-2119457610-43-xxxx	2.5 - < 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319
4-Methylpentan-2-one, isobutyl methyl ketone	(CAS no) 108-10-1 (EC no) 203-550-1 (EC index no) 606-004-00-4 (REACH no) 01-2119473980-30-xxxx	2.5 - < 5	Flam. Liq. 2, H225 Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT SE 3, H336 Inhalation: ATE = 11 mg/L (Vapours)
Glycolic acid, n-butyl ester	(CAS no) 7397-62-8 (EC no) 230-991-7 (REACH no) 01-2119514685-36-xxxx	< 1	Eye Dam. 1, H318 Repr. 2, H361
2-Butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve	(CAS no) 111-76-2 (EC no) 203-905-0 (EC index no) 603-014-00-0 (REACH no) 01-2119475108-36-xxxx	< 1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Oral: ATE = 1200 mg/kg Inhalation: ATE = 3 mg/L (Vapours)

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : Assure fresh air breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash with plenty of soap and water. Flush contaminated areas with plenty of water.

# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Call a POISON CENTER/doctor/physician if you feel unwell.

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

- Symptoms/injuries after inhalation : May cause drowsiness or dizziness.
- Symptoms/injuries after eye contact : Causes serious eye irritation.

### 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. Dry extinguishing powder. Water spray. Foam.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

- Fire hazard : Extremely flammable aerosol.
- Explosion hazard : May form flammable/explosive vapour-air mixture. Pressurised container: May burst if heated.
- Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid contact with skin and eyes. Do not breathe vapour/aerosol. Ensure adequate air ventilation. No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

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

- Methods for cleaning up : Use appropriate ventilation. Mechanically recover the product. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

See section 8. Exposure controls and personal protection. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Without adequate ventilation formation of explosive mixtures may be possible. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking. Pressurised container. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Avoid breathing vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing.

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

- Storage conditions : Store in a cool, well-ventilated place. Keep out of direct sunlight. Keep away from heat. Do not expose to temperatures exceeding 50 °C/ 122 °F.
- Prohibitions on mixed storage : Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

Colour. Varnish.

# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Acetone, propan-2-one, propanone (67-64-1)		
EU	Local name	Acetone
EU	IOELV TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	500 ppm
Ireland	Local name	Acetone
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	500 ppm
Ireland	Notes (IE)	IOELV
Ireland	Local name	Acetone
Ireland	BLV	50 mg/l Parameter: acetone - Medium: urine - Sampling time: End of shift - Notations: Ns (Non-specific)
Malta	Local name	Acetone
Malta	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	500 ppm
United Kingdom	Local name	Acetone
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	500 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	3620 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	1500 ppm
Butane (106-97-8)		
Ireland	Local name	Butane
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
United Kingdom	Local name	Butane
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1450 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	600 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1810 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	750 ppm
United Kingdom	Remark (WEL)	Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene)
n-Butyl acetate (123-86-4)		
EU	Local name	n-butyl acetate
EU	IOELV TWA (mg/m <sup>3</sup> )	241 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	723 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	150 ppm
Ireland	Local name	Butyl acetate
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	241 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	723 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	150 ppm
Ireland	Notes (IE)	IOELV
Malta	Local name	n-Butyl acetate
Malta	OEL TWA (mg/m <sup>3</sup> )	241 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	723 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	150 ppm
United Kingdom	Local name	Butyl acetate
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	150 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	966 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	200 ppm

# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

<b>2-Methoxy-1-methylethyl acetate (108-65-6)</b>		
EU	Local name	2-Methoxy-1-methylethylacetate
EU	IOELV TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Skin
Ireland	Local name	2-Methoxy-1-methylethylacetate
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	100 ppm
Ireland	Notes (IE)	Sk, IOELV
Malta	Local name	2-Methoxy-1-methylethyl acetate
Malta	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	100 ppm
Malta	Notation	skin
United Kingdom	Local name	1-Methoxypropyl acetate
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	274 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	548 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Sk
<b>Ethanol, ethyl alcohol (64-17-5)</b>		
Ireland	Local name	Ethanol
Ireland	OEL (15 min ref) (ppm)	1000 ppm
United Kingdom	Local name	Ethanol
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1920 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	1000 ppm
<b>4-Methylpentan-2-one, isobutyl methyl ketone (108-10-1)</b>		
EU	Local name	4-Methylpentan-2-one
EU	IOELV TWA (mg/m <sup>3</sup> )	83 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	208 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	50 ppm
Ireland	Local name	Methyl isobutyl ketone (MIBK)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	83 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	208 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	50 ppm
Ireland	Notes (IE)	Sk, IOELV
Ireland	Local name	Methyl isobutyl ketone (MIBK)/ 4-methylpentan-2-one
Ireland	BLV	1 mg/l Parameter: MIBK - Medium: urine - Sampling time: End of shift
Malta	Local name	4-Methylpentan-2-one
Malta	OEL TWA (mg/m <sup>3</sup> )	83 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	20 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	208 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	50 ppm
United Kingdom	Local name	4-Methylpentan-2-one

# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

4-Methylpentan-2-one, isobutyl methyl ketone (108-10-1)		
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	208 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	416 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Sk, BMGV
United Kingdom	Local name	4-methylpentan-2-one
United Kingdom	BMGV	20 µmol/l Parameter: 4-methylpentan-2-one - Medium: urine - Sampling time: Post shift

Xylene (1330-20-7)		
EU	Local name	Xylene, mixed isomers, pure
EU	IOELV TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Skin
Ireland	Local name	Xylene, mixed isomers
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	100 ppm
Ireland	Notes (IE)	Sk, IOELV
Ireland	Local name	Xylene
Ireland	BLV	1,5 g/g creatinine Parameter: methylhippuric acids - Medium: urine - Sampling time: End of Shift
Malta	Local name	Xylene, mixed isomers, pure
Malta	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	100 ppm
Malta	Remark (MT)	Skin
United Kingdom	Local name	Xylene, o-, m-, p- or mixed isomers
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	441 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Sk, BMGV
United Kingdom	Local name	Xylene, o-, m-, p- or mixed isomers
United Kingdom	BMGV	650 mmol/mol creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift

2-Butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)		
EU	Local name	2-Butoxyethanol
EU	IOELV TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	50 ppm
EU	Notes	Skin
Ireland	Local name	2-Butoxyethanol (EGBE)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>

# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

2-Butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)		
Ireland	OEL (15 min ref) (ppm)	50 ppm
Ireland	Notes (IE)	Sk, IOELV
Ireland	Local name	2-Butoxyethanol
Ireland	BLV	200 mg/g creatinine Parameter: BAA - Medium: urine - Sampling time: End of Shift
Malta	Local name	2-Butoxyethanol
Malta	OEL TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	20 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	50 ppm
Malta	Remark (MT)	Skin
United Kingdom	Local name	2-Butoxyethanol
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	123 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	50 ppm
United Kingdom	Remark (WEL)	Sk, BMGV
United Kingdom	Local name	Xylene, o-, m-, p- or mixed isomers
United Kingdom	BMGV	240 mmol/mol creatinine Parameter: butoxyacetic acid - Medium: urine - Sampling time: Post shift

Acetone, propan-2-one, propanone (67-64-1)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	2420 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	186 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1210 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	62 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	200 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	62 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	10.6 mg/l
PNEC aqua (marine water)	1.06 mg/l
PNEC aqua (intermittent, freshwater)	21 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	30.4 mg/kg dwt
PNEC sediment (marine water)	3.04 mg/kg dwt
PNEC (Soil)	
PNEC soil	29.5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

### 8.2. Exposure controls

Appropriate engineering controls	: Provide local exhaust or general room ventilation to minimize vapour concentrations.
Hand protection	: Wear suitable gloves. Nitrile rubber. Short term < 15 min. Butyl rubber. 0.7 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: If the occupational exposure limit is exceeded : Wear respiratory protection. Combined gas/dust mask with filter type A1/P2. Wear a self contained breathing apparatus.
Environmental exposure controls	: Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Aerosol
Colour	: Grey

# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

Odour	: Characteristic
Melting point/freezing point	: No data available
Boiling point or initial boiling point and boiling range	: -44.5 °C
Flammability	: No data available
Lower and upper explosion limit	: 1.5 - 13 vol %
Flash point	: -97 °C
Auto-ignition temperature	: 365 °C
Decomposition temperature	: No data available
pH	: Not determined
Kinematic viscosity	: No data available
Solubility	: Water: Slightly miscible
Partition coefficient n-octanol/water (log value)	: Not applicable
Vapour pressure	: 3600 hPa (20 °C)
Density and/or relative density	: No data available
Relative vapour density	: No data available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Explosive properties	: In use, may form flammable/explosive vapour-air mixture.
Oxidising properties	: None

#### 9.2.2. Other safety characteristics

VOC content	: 80.74 %
Solid content	: 17.3 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with : Oxidizing agent. Acids and bases.

### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

### 10.3. Possibility of hazardous reactions

Reacts with oxidising compounds. Acids and bases.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

No information available about this product.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	: Not classified
	Based on available data, the classification criteria are not met

Acetone, propan-2-one, propanone (67-64-1)	
LD50 oral rat	5800 mg/kg
LD50 dermal rabbit	> 7426 mg/kg
LC50 inhalation rat	76000 mg/m <sup>3</sup> /4 h
n-Butyl acetate (123-86-4)	
LD50 oral rat	10760 mg/kg
LD50 dermal rabbit	> 14112 mg/kg
LC50 inhalation rat (Vapours)	0.74 mg/l, 4 h
Xylene (1330-20-7)	
LD50 oral rat	3523 mg/kg
LD50 dermal rabbit	12126 mg/kg
LC50 inhalation rat (Dust/Mist)	27124 mg/m <sup>3</sup> /4 h



# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met

### 11.2. Information on other hazards

Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met
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## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

#### Acetone, propan-2-one, propanone (67-64-1)

LC50 fish	2.6 mg/l 96 h, Oncorhynchus mykiss
LC50 daphnia	8800 mg/l 48 h, Daphnia pulex
NOEC daphnia	>1106 - < 2212 mg/l 28 d, Daphnia magna
NOEC algae	530 mg/l 8 d, Microcystis aeruginosa

#### n-Butyl acetate (123-86-4)

LC50 fish	18 mg/l 96 h, Pimephales promelas
EC50 daphnia	44 mg/l 48 h, Daphnia sp.
EC50 algae	335 mg/l 72 h, Raphidocelis subcapitata
NOEC daphnia	23.2 mg/l 21 d, Daphnia magna
NOEC algae	196 mg/l 72 h, Raphidocelis subcapitata

#### Xylene (1330-20-7)

LC50 fish	8.4 mg/l 96 h, Oncorhynchus mykiss
EC50 algae	4.9 mg/l 72 h, Raphidocelis subcapitata
NOEC fish	> 1.3 mg/l 56 d, Oncorhynchus mykiss
NOEC daphnia	1.17 mg/l 7 d, Ceriodaphnia dubia
NOEC microorganisms	16 mg/l 28 d, activated sludge

### 12.2. Persistence and degradability

#### Acetone, propan-2-one, propanone (67-64-1)

Persistence and degradability	Readily biodegradable
Biodegradation	90.9 %, 28 d (OECD 301 B)

#### n-Butyl acetate (123-86-4)

Persistence and degradability	Readily biodegradable
Biodegradation	96 %, 28 d (OECD 301 D)

#### Xylene (1330-20-7)

Persistence and degradability	Readily biodegradable
Biodegradation	98 %, 28 d (OECD 301 F)

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Do not dispose of with domestic waste. Do not empty into drains.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
European List of Waste (LoW) code	: 15 01 10* - packaging containing residues of or contaminated by dangerous substances
Waste code number	: The valid EWC waste code numbers are source related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

### 14.1. UN number or ID number

UN-No. (ADR)	: UN 1950
UN-No. (IMDG)	: UN 1950
UN-No. (IATA)	: UN 1950

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: AEROSOLS
Proper Shipping Name (IMDG)	: AEROSOLS
Proper Shipping Name (IATA)	: Aerosols, flammable
Transport document description (ADR)	: UN 1950 AEROSOLS, 2.1, (D)
Transport document description (IMDG)	: UN 1950 AEROSOLS, 2.1
Transport document description (IATA)	: UN 1950 Aerosols, flammable, 2.1

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR)	: 2.1
Danger labels (ADR)	: 2.1



#### IMDG

Transport hazard class(es) (IMDG)	: 2.1
Danger labels (IMDG)	: 2.1



#### IATA

Transport hazard class(es) (IATA)	: 2.1
Danger labels (IATA)	: 2.1



# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

### 14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable

### 14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

#### Transport by sea

Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Packing instructions (IMDG)	: P207, LP200
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69

#### Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 80.74 %

# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to the previous version : Section 2.1  
Section 2.2  
Section 3.2  
Section 8.1  
Section 9.1  
Section 11.1  
Section 12.1  
Section 16

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-phrases:

Acute Tox. 3 (Inhalation)	Acute toxicity (Inhalation), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
Carc. 2	Carcinogenicity, Category 2
Compressed gas	Gases under pressure : Compressed gas
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Expl. 1	Explosives, Division 1.1
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Press. Gas	Gases under pressure
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H201	Explosive; mass explosion hazard.
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H229	Pressurised container: May burst if heated

# Farbspray RAL5000 Violet-blue

## Safety Data Sheet

according to Regulation (EU) 2020/878

H280	Contains gas under pressure; may explode if heated
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.