

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac Disbocolor 781 sm. Gold

Version	Revision Date:	Print Date	Date of last issue: -
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Capalac Disbocolor 781 sm. Gold

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

Use of the Sub-  
stance/Mixture : Spray paint

Recommended restrictions : within adequate application - none on use

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

Company : Caparol Farben Lacke GmbH  
Roßdörfer Straße 50  
64372 Ober-Ramstadt

Telephone : +496154710  
Telefax : +49615471222  
E-mail address Responsible/issuing person : msds@dr-rmi.com

#### 1.4 Emergency telephone number

Emergency telephone number 1 : +49615471202

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.  
H229: Pressurised container: May burst if heated.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Specific target organ toxicity - single exposure, Category 3, Central nervous system H336: May cause drowsiness or dizziness.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

### Prevention:

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 vapours/ spray.  
P271 Use only outdoors or in a well-ventilated area.

### Storage:

P405 Store locked up.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label:

acetone  
n-butyl acetate  
2-methoxy-1-methylethyl acetate

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
acetone	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	>= 20 - < 30

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xylene	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Asp. Tox. 1; H304 STOT RE 2; H373	>= 1 - < 10
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Eye Irrit. 2; H319 Flam. Liq. 2; H225	>= 1 - < 10
Substances with a workplace exposure limit :			
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	>= 10 - < 20
propane	74-98-6 200-827-9 601-003-00-5 01-2119486944-21	Flam. Gas 1; H220 Press. GasH280	>= 10 - < 20
butane	106-97-8 203-448-7 601-004-00-0 01-2119474691-32	Flam. Gas 1; H220 Press. GasH280	>= 10 - < 20
isobutane	75-28-5 200-857-2 601-004-00-0 01-2119485395-27	Flam. Gas 1; H220 Press. GasH280	>= 1 - < 10
aluminium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1 01-2119529243-45	Flam. Sol. 1; H228 Water-react. 2; H261	>= 1 - < 10
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336	>= 1 - < 10

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : First aider needs to protect himself.  
Move out of dangerous area.  
If you feel unwell, seek medical advice (show the label where possible).  
Never give anything by mouth to an unconscious person.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Take off all contaminated clothing immediately.  
In case of contact, immediately flush skin with soap and plenty

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- of water.  
Do NOT use solvents or thinners.
- In case of eye contact : IF IN EYES: 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.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Clean mouth with water and drink afterwards plenty of water.  
Seek medical advice.

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

None known.

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

Treatment : No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.

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

- Specific hazards during fire-fighting : In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).  
Cool closed containers exposed to fire with water spray.

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : In the event of fire and/or explosion do not breathe fumes.  
Standard procedure for chemical fires.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

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

- Personal precautions : Remove all sources of ignition.  
Ensure adequate ventilation.

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

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Prevent further leakage or spillage if safe to do so.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8., For further information see Section 7 of the safety data sheet.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding the given occupational exposure limits (see section 8). For personal protection see section 8.

Advice on protection against fire and explosion : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before eating, drinking, or smoking. Avoid contact with the skin and the eyes.

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

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in original container. Store in accordance with the particular national regulations.

Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in accordance with the particular national regulations.

Storage class (TRGS 510) : 2B, Aerosol cans and lighters

### 7.3 Specific end use(s)

Specific use(s) : Please follow the technical information.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
acetone	67-64-1	TWA	500 ppm 1.210 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			
		AGW	500 ppm 1.200 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(I)			
Further information	Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., European Union (The EU has established a limit value: deviations in value and peak limit are possible), When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
n-butyl acetate	123-86-4	AGW	62 ppm 300 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(I)			
Further information	Commission for dangerous substances, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
propane	74-98-6	AGW	1.000 ppm 1.800 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
butane	106-97-8	AGW	1.000 ppm 2.400 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
isobutane	75-28-5	AGW	1.000 ppm 2.400 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
xylene	1330-20-7	TWA	50 ppm 221 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm	2000/39/EC

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			442 mg/m <sup>3</sup>	
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		AGW	100 ppm 440 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., European Union (The EU has established a limit value: deviations in value and peak limit are possible), Skin absorption			
		AGW	200 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	Group exposure limit for hydrocarbon solvent mixtures, Commission for dangerous substances, See also No. 2.9 of the TRGS 900			
aluminium powder (stabilised)	7429-90-5	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
ethanol	64-17-5	AGW	500 ppm 960 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
2-methoxy-1-methylethyl acetate	108-65-6	STEL	100 ppm 550 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 275 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		AGW	50 ppm 270 mg/m <sup>3</sup>	DE TRGS 900

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Peak-limit: excursion factor (category)	1;(I)
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., European Union (The EU has established a limit value: deviations in value and peak limit are possible), When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
acetone	67-64-1	Acetone: 80 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
xylene	1330-20-7	xylene: 1,5 mg/l (Blood)	Immediately after exposure or after working hours	TRGS 903
		methylhippuric acid (all isomers): 2 g/l (Urine)	Immediately after exposure or after working hours	TRGS 903

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
acetone	Consumers	Inhalation	Long-term systemic effects	200,00 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	62,00 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	62,00 mg/kg bw/day
n-butyl acetate	Consumers	Inhalation	Long-term systemic effects	12,00 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	3,40 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	3,40 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	859,70 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	102,34 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	102,34 mg/m <sup>3</sup>
xylene	Consumers	Inhalation	Acute local effects	859,70 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	174,00 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	108,00 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	174,00 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	1,60 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	14,80 mg/m <sup>3</sup>
aluminium powder (stabilised)	Consumers	Ingestion	Long-term systemic effects	7,90 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic	158,00 mg/kg



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			effects	bw/day
	Consumers	Ingestion	Long-term systemic effects	3,95 mg/kg bw/day
ethanol	Consumers	Inhalation	Long-term systemic effects	114,00 mg/m3
	Consumers	Skin contact	Long-term systemic effects	206,00 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	87,00 mg/kg bw/day
	Consumers	Inhalation	Acute local effects	950,00 mg/m3
2-methoxy-1-methylethyl acetate	Consumers	Ingestion	Long-term systemic effects	36,00 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	33,00 mg/m3
	Consumers	Ingestion	Long-term systemic effects	1000,00 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33,00 mg/m3
	Consumers	Skin contact	Long-term systemic effects	320,00 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	5732,00 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	54,80 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1,67 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
acetone	Fresh water sediment	30,4 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Marine sediment	3,04 mg/kg dry weight (d.w.)
	Fresh water	10,6 mg/l
	Marine water	1,06 mg/l
	Intermittent use/release	21 mg/l
	Soil	29,5 mg/kg dry weight (d.w.)
n-butyl acetate	Fresh water sediment	0,981 mg/kg dry weight (d.w.)
	Soil	0,0903 mg/kg dry weight (d.w.)
	Marine sediment	0,0981 mg/kg dry weight (d.w.)
	Intermittent use/release	0,36 mg/l
	Sewage treatment plant	35,6 mg/l
	Marine water	0,018 mg/l
	Fresh water	0,18 mg/l
xylene	Fresh water	0,327 mg/l
	Intermittent use/release	0,327 mg/l
	Soil	2,31 mg/kg dry weight (d.w.)
	Fresh water sediment	12,46 mg/kg dry weight (d.w.)

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	Sewage treatment plant	6,58 mg/l
	Marine water	0,327 mg/l
	Marine sediment	12,46 mg/kg dry weight (d.w.)
aluminium powder (stabilised)	Sewage treatment plant	20 mg/l
	Fresh water	74,9 µg/l
ethanol	Marine sediment	2,9 mg/kg dry weight (d.w.)
	Sewage treatment plant	580 mg/l
	Fresh water sediment	3,6 mg/kg dry weight (d.w.)
	Marine water	0,79 mg/l
	Soil	0,63 mg/kg dry weight (d.w.)
	Intermittent use/release	2,75 mg/l
	Fresh water	0,96 mg/l
	Secondary Poisoning	0,72 g/kg food
2-methoxy-1-methylethyl acetate	Fresh water	0,635 mg/l
	Intermittent use/release	6,35 mg/l
	Marine sediment	0,329 mg/kg dry weight (d.w.)
	Fresh water sediment	3,29 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Marine water	0,0635 mg/l
	Soil	0,29 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : German trade association rules - BGR 192 Eye protection  
Tightly fitting safety goggles

#### Hand protection

Material : Nitrile rubber  
Glove thickness : 0,2 mm  
Protective index : Class 3

Remarks : Wear suitable gloves tested to EN374. Before removing gloves clean them with soap and water. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.  
German trade association leaflet: Carry gloves (ZH 1/706)

Skin and body protection : Long sleeved clothing  
Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Skin should be washed after contact.

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Respiratory protection : During spray application: impervious clothing  
: German trade association rules - BGR 190 Breathing protection  
During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

### SECTION 9: Physical and chemical properties

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

Appearance	: aerosol
Colour	: No data available
Odour	: No data available
Odour Threshold	: Not relevant
pH	: not determined
Melting point/freezing point	: not determined
Boiling point/boiling range	: not determined
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Sustains combustion
Upper explosion limit / Upper flammability limit	: 13,0 %(V)
Lower explosion limit / Lower flammability limit	: 1,2 %(V)
Vapour pressure	: 8.300 hPa
Relative vapour density	: not determined
Relative density	: not determined
Density	: 0,78 g/cm <sup>3</sup>
Solubility(ies) Water solubility	: insoluble
Partition coefficient: n-octanol/water	: not determined
Auto-ignition temperature	: 365 °C
Decomposition temperature	: Not applicable

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Viscosity  
Viscosity, dynamic : No data available

Explosive properties : Not applicable

Oxidizing properties : Not applicable

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous decomposition products formed under fire conditions.  
Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.  
Risk of bursting.

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

### 10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.  
Incompatible with acids and bases.

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Product:

Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.

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Acute inhalation toxicity : Acute toxicity estimate: > 20000 ppm  
Exposure time: 4 h  
Test atmosphere: gas  
Method: Calculation method

Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Remarks: Based on available data, the classification criteria are not met.

### Components:

#### **acetone:**

Acute oral toxicity : LD50 Oral (Rat): 5.800 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 20.000 mg/kg

#### **xylene:**

Acute inhalation toxicity : LC50 (Rat): 5000 ppm  
Exposure time: 4 h  
Test atmosphere: gas

#### **n-butyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): 14.000 mg/kg

### **Skin corrosion/irritation**

#### Product:

Remarks : May cause skin irritation in susceptible persons.

### **Serious eye damage/eye irritation**

#### Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

### **Respiratory or skin sensitisation**

#### Product:

Remarks : No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

**Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

**Components:**

**acetone:**

Partition coefficient: n-octanol/water : log Pow: -0,24 (20 °C)

**n-butyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 2,3 (25 °C)  
Method: OECD Test Guideline 117

**2-methoxy-1-methylethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 1,2 (20 °C)  
Method: OECD Test Guideline 117

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

#### 12.6 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : .

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Waste should not be disposed of via wastewater.

Contaminated packaging : Only completely emptied containers should be given for recycling.

Waste Code : used product  
080112, waste paint and varnish other than those mentioned  
in 08 01 11\*

### SECTION 14: Transport information

#### 14.1 UN number

ADN : UN 1950  
ADR : UN 1950  
RID : UN 1950  
IMDG : UN 1950  
IATA : UN 1950

#### 14.2 UN proper shipping name

ADN : AEROSOLS  
ADR : AEROSOLS  
RID : AEROSOLS  
IMDG : AEROSOLS  
IATA : Aerosols, flammable

#### 14.3 Transport hazard class(es)

ADN : 2  
ADR : 2  
RID : 2  
IMDG : 2.1  
IATA : 2.1

#### 14.4 Packing group

**ADN**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

**RID**  
Packing group : Not assigned by regulation

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Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1

### IMDG

Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

### IATA (Cargo)

Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

### IATA (Passenger)

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be generated.

REACH - List of substances subject to authorisation : None



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(Annex XIV)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P3a FLAMMABLE AEROSOLS

18 Liquefied extremely flammable gases (including LPG) and natural gas

Water contaminating class : 2 significantly water endangering

(Germany)

Volatile organic compounds : < 87 %  
< 680 g/l

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16: Other information

### Full text of H-Statements

EUH066 : Repeated exposure may cause skin dryness or cracking.  
H220 : Extremely flammable gas.  
H225 : Highly flammable liquid and vapour.  
H226 : Flammable liquid and vapour.  
H228 : Flammable solid.  
H261 : In contact with water releases flammable gases.  
H280 : Contains gas under pressure; may explode if heated.  
H304 : May be fatal if swallowed and enters airways.  
H312 : Harmful in contact with skin.  
H315 : Causes skin irritation.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H373 : May cause damage to organs through prolonged or repeated exposure.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Asp. Tox. : Aspiration hazard  
Eye Irrit. : Eye irritation  
Flam. Gas : Flammable gases  
Flam. Liq. : Flammable liquids  
Flam. Sol. : Flammable solids  
Press. Gas : Gases under pressure  
Skin Irrit. : Skin irritation

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STOT RE : Specific target organ toxicity - repeated exposure  
STOT SE : Specific target organ toxicity - single exposure  
Water-react. : Substances and mixtures, which in contact with water, emit flammable gases  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
TRGS 903 : TRGS 903 - Biological limit values  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### **Classification of the mixture:**

Aerosol 1 H222, H229  
Eye Irrit. 2 H319  
STOT SE 3 H336

#### **Classification procedure:**

Calculation method  
Calculation method  
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

DE / EN