

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 05.05.2015

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Revision: 05.05.2015

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

- **1.1 Product identifier**
  - **Trade name:** CARSYSTEM BUMPER PAINT SPRAY schwarz
  - **1.2 Relevant identified uses of the substance or mixture and uses advised against** Not determined
  - **Application of the substance / the mixture** Paint
  - **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
Vosschemie GmbH  
Esinger Steinweg 50  
D-25436 Uetersen  
Phone: +49 (0)4122 717 0; Fax: +49 (0)4122 717158; info@vosschemie.de
  - **Further information obtainable from:**  
Abteilung Labor / +49 (0)4122 717 0  
s.schaller@vosschemie.de
  - **1.4 Emergency telephone number:**  
Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland  
Phone: +49 (0)551 19240
- 

**SECTION 2: Hazards identification**

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



GHS02 flame

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

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GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

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STOT SE 3    H336    May cause drowsiness or dizziness.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

 Xi; Irritant

R36: Irritating to eyes.

 F+; Extremely flammable

R12: Extremely flammable.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

· **Information concerning particular hazards for human and environment:**

Has a narcotising effect.

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

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

Warning! Pressurised container.

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.

· **Classification system:**

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

· **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:**

acetone

n-butyl acetate

butan-1-ol

propan-2-ol

· **Hazard statements**

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

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

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

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P211 Do not spray on an open flame or other ignition source.

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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· **Additional information:**  
EUH066 Repeated exposure may cause skin dryness or cracking.

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

**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	acetone ☒ Xi R36; ☒ F R11 R66-67 ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	dimethyl ether ☒ F+ R12 ☒ Flam. Gas 1, H220; Press. Gas C, H280	20-25%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate R10-66-67 ☒ Flam. Liq. 3, H226; ☒ STOT SE 3, H336	10-12.5%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane ☒ F+ R12 ☒ Flam. Gas 1, H220; Press. Gas C, H280	5-10%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing ≤ 0.1% butadiene (203-450-8)) ☒ F+ R12 ☒ Flam. Gas 1, H220; Press. Gas C, H280	5-10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane ☒ F+ R12 ☒ Flam. Gas 1, H220; Press. Gas C, H280	5-10%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate R10 ☒ Flam. Liq. 3, H226	5-10%
CAS: 71-36-3 EINECS: 200-751-6 Reg.nr.: 01-2119484630-38	butan-1-ol ☒ Xn R22; ☒ Xi R37/38-41 R10-67 ☒ Flam. Liq. 3, H226; ☒ Eye Dam. 1, H318; ☒ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	1.0-2.5%
CAS: 9004-70-0	cellulose nitrate ☒ F R11 ☒ Flam. Sol. 1, H228	1.0-2.5%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	propan-2-ol ☒ Xi R36; ☒ F R11 R67 ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319; STOT SE 3, H336	1.0-2.5%

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· **Additional information:** For 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:**

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**· After inhalation:**

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

In case of unconsciousness place patient stably in side position for transportation.

**· After skin contact:**

Immediately 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 a doctor.

**· After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.**· 4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.**· 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**· For safety reasons unsuitable extinguishing agents:** Water with full jet**· 5.2 Special hazards arising from the substance or mixture**

Carbon monoxide and carbon dioxide

Formation of toxic gases is possible during heating or in case of fire.

**· 5.3 Advice for firefighters****· Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

**· Additional information**

Cool endangered receptacles with water spray.

Remove undamaged containers from the danger zone.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

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Ensure adequate ventilation

Do not inhale gases / fumes / aerosols.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with the eyes and skin.

· **6.2 Environmental precautions:**

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

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

· **6.3 Methods and material for containment and cleaning up:**

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

Dispose contaminated material as waste according to item 13.

Do not flush with water or aqueous cleansing agents

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Open and handle receptacle with care.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

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

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Information about fire - and explosion protection:**

Fumes can combine with air to form an explosive mixture.

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Keep container tightly sealed.

Protect from heat and direct sunlight.

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

## SECTION 8: Exposure controls/personal protection

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

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**· 8.1 Control parameters**

**· Ingredients with limit values that require monitoring at the workplace:**

**67-64-1 acetone**

WEL (Great Britain)	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
IOELV (EU)	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm

**115-10-6 dimethyl ether**

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

**123-86-4 n-butyl acetate**

WEL (Great Britain)	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm
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**106-97-8 butane (containing ≤0.1% butadiene (203-450-8))**

WEL (Great Britain)	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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**108-65-6 2-methoxy-1-methylethyl acetate**

WEL (Great Britain)	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
IOELV (EU)	Short-term value: 550 mg/m <sup>3</sup> , 100 ppm Long-term value: 275 mg/m <sup>3</sup> , 50 ppm Skin

**71-36-3 butan-1-ol**

WEL (Great Britain)	Short-term value: 154 mg/m <sup>3</sup> , 50 ppm Sk
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**67-63-0 propan-2-ol**

WEL (Great Britain)	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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**· DNELs**

**67-64-1 acetone**

Oral	Long-term exposure - systemic effects	62 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	62 mg/kg bw/day (general population) 186 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	2420 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	200 mg/m <sup>3</sup> (general population) 1210 mg/m <sup>3</sup> (worker)

**123-86-4 n-butyl acetate**

Oral	Long-term exposure - systemic effects	3.4 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	3.4 mg/kg bw/day (general population) 7 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	859.7 mg/m <sup>3</sup> (general population) 960 mg/m <sup>3</sup> (worker)

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	Acute/short-term exposure - systemic effects	859.7 mg/m <sup>3</sup> (general population) 960 mg/m <sup>3</sup> (worker)
	Long-term exposure - local effects	102.34 mg/m <sup>3</sup> (general population) 480 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	102.34 mg/m <sup>3</sup> (general population) 480 mg/m <sup>3</sup> (worker)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
Oral	Long-term exposure - systemic effects	1.67 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	54.8 mg/kg bw/day (general population) 153.5 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	33 mg/m <sup>3</sup> (general population) 275 mg/m <sup>3</sup> (worker)
<b>67-63-0 propan-2-ol</b>		
Oral	Long-term exposure - systemic effects	26 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	319 mg/kg bw/day (general population) 888 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	89 mg/m <sup>3</sup> (general population) 500 mg/m <sup>3</sup> (worker)

**· PNECs**
**67-64-1 acetone**

PNEC STP	100 mg/l (-)
PNEC aqua	10.6 mg/l (freshwater) 1.06 mg/l (marine water) 21 mg/l (intermittent releases)
PNEC sediment	30.4 mg/kg (freshwater) 3.04 mg/kg (marine water)
PNEC soil	29.5 mg/kg (-)

**123-86-4 n-butyl acetate**

PNEC STP	35.6 mg/l (-)
PNEC aqua	0.18 mg/l (freshwater) 0.018 mg/l (marine water) 0.36 mg/l (intermittent releases)
PNEC sediment	0.981 mg/kg (freshwater) 0.0981 mg/kg (marine water)
PNEC soil	0.0903 mg/kg (soil dw)

**108-65-6 2-methoxy-1-methylethyl acetate**

PNEC STP	100 mg/l (-)
PNEC aqua	0.635 mg/l (freshwater) 0.0635 mg/l (marine water) 6.35 mg/l (intermittent releases)
PNEC sediment	3.29 mg/kg (freshwater) 0.329 mg/kg (marine water)

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PNEC soil	0.29 mg/kg (soil dw)
<b>67-63-0 propan-2-ol</b>	
PNEC STP	2251 mg/l (-)
PNEC aqua	140.9 mg/l (freshwater)
	140.9 mg/l (marine water)
PNEC sediment	522 mg/kg (freshwater)
	522 mg/kg (marine water)
PNEC soil	28 mg/kg (-)

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

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Do not inhale gases / fumes / aerosols.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Store protective clothing separately.

Avoid contact with the eyes and skin.

Use skin protection cream for skin protection.

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

No special procedures required if all workplace limit values are continuously respected.

· **Protection of hands:**



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check the permeability prior to each renewed use of the glove.

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Preventive skin protection by use of skin-protecting agents is recommended.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

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· Eye protection:



Tightly sealed goggles

· 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:	Black
Odour:	Characteristic

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.

· Flash point: Not applicable, as aerosol.

· Ignition temperature: 240 °C

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower:	1.2 Vol %
Upper:	26.2 Vol %

· Vapour pressure at 20 °C: 4000 hPa

· Density at 20 °C: 0.75 g/cm<sup>3</sup>

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

· Partition coefficient (n-octanol/water): Not determined

· Viscosity:

Dynamic:	Not determined
Kinematic:	Not determined

· 9.2 Other information No further relevant information available.

### SECTION 10: Stability and reactivity

· 10.1 Reactivity No decomposition if used according to specifications.

· 10.2 Chemical stability No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

Forms explosive gas mixture with air.

Danger of bursting.

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- **10.4 Conditions to avoid**  
Avoid naked flames, sparks, other ignition sources and sunlight.  
Protect from heat.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

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

#### 67-64-1 acetone

Oral	LD50	5800 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 7400 mg/kg (rat) > 15800 mg/kg (rabbit)
Inhalative	LC50 /4h	76 mg/l (rat)

#### 115-10-6 dimethyl ether

Inhalative	LC50 /4h	308 mg/l (rat)
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#### 123-86-4 n-butyl acetate

Oral	LD50	10760 mg/kg (rat) (OECD 423)
Dermal	LD 50	> 5000 mg/kg (rabbit)
Inhalative	LC 50 / 4h	23.4 mg/l (rat) (OECD 403, aerosol)
	LC50 /4h	> 21 mg/l (rat) (OECD 403, vapour)

#### 74-98-6 propane

Inhalative	LC 50 / 4h	> 31 mg/l (rat) (vapour)
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#### 106-97-8 butane (containing ≤0.1% butadiene (203-450-8))

Inhalative	LC 50 / 4h	> 31 mg/l (rat) (vapour)
	LC50 /4h	> 13023 ppm (rat)

#### 75-28-5 isobutane

Inhalative	LC50 /4h	> 13023 ppm (rat) (vapour)
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#### 108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD 50	> 5000 mg/kg (rat)
Dermal	LD 50	> 2000 mg/kg (rat)
		> 5000 mg/kg (rabbit)
Inhalative	LC50 /4h	35.7 mg/l (rat)
	LC50 /6h	>23.8 mg/l (rat) (Dust/Mist)

#### 71-36-3 butan-1-ol

Oral	LD50	2292 mg/kg (rat)
Dermal	LD50	3400 mg/kg (rabbit)
Inhalative	LC50 /4h	25 mg/m <sup>3</sup> (rat)

#### 67-63-0 propan-2-ol

Oral	LD50	5840 mg/kg (rat) (OECD 401)
Dermal	LD50	13900 mg/kg (rabbit) (OECD 402)

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Inhalative	LC50 /4h	> 25 mg/l (rat) (OECD 403)
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- **Primary irritant effect:**
- **on the skin:** Repeated exposure may cause skin dryness or cracking.
- **on the eye:** Irritating effect.

· **Subacute to chronic toxicity:**

**67-64-1 acetone**

Oral	NOAEL	900 mg/kg (rat) (OECD 408, rat (male), 13 weeks)
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- **Additional toxicological information:** Vapours may cause drowsiness and dizziness.
- **Sensitisation** No sensitising effects known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No further relevant information available.

## SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**67-64-1 acetone**

EC10	530 mg/l (Microcystis aeruginosa) (8 d)
EC10/0,5h	1000 mg/l (bacteria)
EC50/48h	8800 mg/l (daphnia)
LC50/96h	8300 mg/l (Lepomis macrochirus)
	5540 mg/l (oncorhynchus mykiss)
NOEC	2212 mg/l (daphnia magna) (OECD 211, 28 d)

**115-10-6 dimethyl ether**

EC50/48h	> 4.4 mg/l (daphnia magna)
LC50/96h	> 4.1 mg/l (poecilia reticulata)

**123-86-4 n-butyl acetate**

EC50	356 mg/l (bacteria) (Tetrahymena, 40h)
EC50/48h	44 mg/l (daphnia magna)
EC50/72h	674.7 mg/l (scenedesmus subspicatus)
	647.7 mg/l (desmodesmus subspicatus)
LC50	64 mg/l (danio rerio) (48h)
LC50/96h	18 mg/l (pimephales promelas) (OECD 203)
NOEC	200 mg/l (desmodesmus subspicatus)

**108-65-6 2-methoxy-1-methylethyl acetate**

EC10/0,5h	>1000 mg/l (activated slugde) (OECD 209)
EC50/48h	>500 mg/l (daphnia magna) (67/548/EWG Apendix V, C.2.)
EC50/72h	> 1000 mg/l (Pseudokirchneriella subcapitata) (OECD- 201)
LC50/96h	134 mg/l (oncorhynchus mykiss) (OECD- 203)
	> 100 mg/l (Oryzias latipes) (OECD 203)
NOEC	≥ 100 mg/l (daphnia magna) (21d, OECD 202)
	47.5 mg/l (Oryzias latipes) (14d, OECD 204)

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**71-36-3 butan-1-ol**

EC50/48h	1983 mg/l ( <i>daphnia magna</i> )
EC50/72h	> 500 mg/l ( <i>Pseudokirchneriella subcapitata</i> )
LC50/96h	1730 mg/l ( <i>pimephales promelas</i> )

**67-63-0 propan-2-ol**

EC50	> 100 mg/l ( <i>bacteria</i> )
EC50/48h	1099 mg/l ( <i>crangon crangon</i> ) 13299 mg/l ( <i>daphnia magna</i> )
EC50/72h	> 100 mg/l ( <i>algae</i> ) > 1000 mg/l ( <i>scenedesmus subspicatus</i> )
LC50/96h	> 100 mg/l ( <i>fish</i> ) 9640 mg/l ( <i>pimephales promelas</i> )

**12.2 Persistence and degradability**
**67-64-1 acetone**

BSB (BOD)	1760 mg/g (-)
Biodegradation	91 % (-) (OECD 301B, 28 d)

**123-86-4 n-butyl acetate**

Biodegradation	83 % (-) (OECD 301 D 28d)
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**108-65-6 2-methoxy-1-methylethyl acetate**

BSB	83 % (activated sludge) (28d, OECD 301 F)
Biodegradation	100 % (-) (OECD 302 B, 8d)

**71-36-3 butan-1-ol**

Biodegradation	92 % (-) (20d)
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**67-63-0 propan-2-ol**

Biodegradation	> 95 % (-) (OECD 301E, C.4-B, 21d)
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**12.3 Bioaccumulative potential**
**67-64-1 acetone**

BCF	3 (-)
log Pow	-0.24 (-)

**123-86-4 n-butyl acetate**

BCF	15.3 (-)
log Pow	2.3 (-) (OECD 117)

**106-97-8 butane (containing ≤0.1% butadiene (203-450-8))**

log Pow	2.8 (-)
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**108-65-6 2-methoxy-1-methylethyl acetate**

log Pow	0.43 (-)
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**71-36-3 butan-1-ol**

BCF	3.16 (-)
log Pow	1 (-)

**67-63-0 propan-2-ol**

log Pow	0.05 (-)
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- **Behaviour in environmental systems:**
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
Disposal must be made according to official regulations.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key:**  
The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

· **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
15 01 04	metallic packaging

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

**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**



- **Class** 2 5F Gases.
- **Label** 2.1

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· **IMDG, IATA**

· <b>Class</b>	2.1
· <b>Label</b>	2.1
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Warning: Gases.
· <b>EMS Number:</b>	F-D,S-U
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Information about limitation of use:**  
Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

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

- **Relevant phrases**
- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H228 Flammable solid.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.

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*H335 May cause respiratory irritation.**H336 May cause drowsiness or dizziness.**R10 Flammable.**R11 Highly flammable.**R12 Extremely flammable.**R22 Harmful if swallowed.**R36 Irritating to eyes.**R37/38 Irritating to respiratory system and skin.**R41 Risk of serious damage to eyes.**R66 Repeated exposure may cause skin dryness or cracking.**R67 Vapours may cause drowsiness and dizziness.*

- **Department issuing MSDS:** Abteilung Labor

- **Contact:** Frau S. Schaller

- **Abbreviations and acronyms:**

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

*ICAO: International Civil Aviation Organisation*

*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)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*Flam. Gas 1: Flammable gases, Hazard Category 1*

*Flam. Aerosol 1: Flammable aerosols, Hazard Category 1*

*Press. Gas C: Gases under pressure: Compressed gas*

*Flam. Liq. 2: Flammable liquids, Hazard Category 2*

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

*Flam. Sol. 1: Flammable solids, Hazard Category 1*

*Acute Tox. 4: Acute toxicity, Hazard Category 4*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1*

*Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2*

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