

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

Printing date 14.05.2013

V - 6

Revision: 14.05.2013



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

- **Product identifier**
 - **Trade name:** CARSYSTEM CONTROL-SPRAY
 - **Relevant identified uses of the substance or mixture and uses advised against** *Not determined*
 - **Application of the substance / the preparation** *Paint*

 - **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
 - **Emergency telephone number:**
Giftnformationszentrum (GIZ)-Nord, Goettingen, Deutschland
Phone: +49 (0)551 19240, +49 (0)551 383180
-

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
-  **Xi; Irritant**
R36: Irritating to eyes.
-  **F+; Extremely flammable**
R12: Extremely flammable.
- R52/53-66-67: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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Information concerning particular hazards for human and environment:

Has a narcotizing 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! Pressurized 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.

Label elements**Labelling according to EU guidelines:**

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

Code letter and hazard designation of product:

Xi Irritant

F+ Extremely flammable

Risk phrases:

12 Extremely flammable.

36 Irritating to eyes.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

Safety phrases:

2 Keep out of the reach of children.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe vapour/spray.

24/25 Avoid contact with skin and eyes.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

Special labelling of certain preparations:

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

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

Buildup of explosive mixtures possible without sufficient ventilation.

Other hazards**Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

3 Composition/information on ingredients**Chemical characterization: Mixtures**

• **Description:** Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:		
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49 02-2119752542-40	acetone ☒ Xi R36; ☒ F R11 R66-67 ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
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, H280	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane ☒ F+ R12 ☒ Flam. Gas 1, H220; Press. Gas, H280	10-25%
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: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	ethyl acetate ☒ Xi R36; ☒ F R11 R66-67 ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319; STOT SE 3, H336	5-10%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119486136-34 01-2119488216-32	xylene, mixture of isomers ☒ Xn R20/21; ☒ Xi R38 R10 ☒ Flam. Liq. 3, H226; ☒ STOT RE 2, H373; Asp. Tox. 1, H304; ☒ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-5%
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	2.5-5%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. ☒ Xn R65; ☒ Xi R37; ☒ N R51/53 R10-66-67 ☒ Flam. Liq. 3, H226; ☒ Asp. Tox. 1, H304; ☒ Aquatic Chronic 2, H411; ☒ STOT SE 3, H335-H336	2.5-5%
CAS: 9004-70-0	cellulose nitrate ☒ F R11 ☒ Flam. Sol. 1, H228	≤ 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	≤ 2.5%
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	≤ 2.5%

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

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4 First aid measures

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

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**
 - Water
 - Water with full jet
- **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.
- **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.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - Wear protective equipment. Keep unprotected persons away.
 - Keep away from ignition sources.
 - Ensure adequate ventilation
 - Do not inhale gases / fumes / aerosols.
 - Use respiratory protective device against the effects of fumes/dust/aerosol.

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- Avoid contact with the eyes and skin.
- **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **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.

7 Handling and storage

- **Handling:**
- **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.
- **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 pressurized 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.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **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 ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
IOELV (EU)	Long-term value: 1210 mg/m ³ , 500 ppm

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106-97-8 butane (containing $\leq 0.1\%$ butadiene (203-450-8))

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

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

141-78-6 ethyl acetate

WEL (Great Britain)	Short-term value: 400 ppm Long-term value: 200 ppm
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1330-20-7 xylene, mixture of isomers

WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin

123-86-4 n-butyl acetate

WEL (Great Britain)	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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67-63-0 propan-2-ol

WEL (Great Britain)	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
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71-36-3 butan-1-ol

WEL (Great Britain)	Short-term value: 154 mg/m ³ , 50 ppm Sk
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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 ³ (worker)
	Acute/short-term exposure - systemic effects	1210 mg/m ³ (worker)
	Long-term exposure - systemic effects	200 mg/m ³ (general population) 1210 mg/m ³ (worker)

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

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 ³ (general population) 275 mg/m ³ (worker)

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141-78-6 ethyl acetate

Oral	Long-term exposure - systemic effects	4.5 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	37 mg/kg bw/day (general population) 63 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	734 mg/m ³ (general population) 1468 mg/m ³ (worker)
	Acute/short-term exposure - systemic effects	734 mg/m ³ (general population) 1468 mg/m ³ (worker)
	Long-term exposure - local effects	367 mg/m ³ (general population) 734 mg/m ³ (worker)
	Long-term exposure - systemic effects	367 mg/m ³ (general population) 734 mg/m ³ (worker)

1330-20-7 xylene, mixture of isomers

Oral	Long-term exposure - systemic effects	1.6 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	108 mg/kg bw/day (general population) 180 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	174 mg/m ³ (general population) 289 mg/m ³ (worker)
	Acute/short-term exposure - systemic effects	174 mg/m ³ (general population) 289 mg/m ³ (worker)
	Long-term exposure - systemic effects	14.8 mg/m ³ (general population) 77 mg/m ³ (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 ³ (general population) 960 mg/m ³ (worker)
	Acute/short-term exposure - systemic effects	859.7 mg/m ³ (general population) 960 mg/m ³ (worker)
	Long-term exposure - local effects	102.34 mg/m ³ (general population) 480 mg/m ³ (worker)
	Long-term exposure - systemic effects	102.34 mg/m ³ (general population) 480 mg/m ³ (worker)

67-63-0 propan-2-ol

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 ³ (general population) 500 mg/m ³ (worker)

· PNECs
67-64-1 acetone

PNEC STP	100 mg/l (-)
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<i>PNEC aqua</i>	10.6 mg/l (freshwater) 1.06 mg/l (marine water) 21 mg/l (intermittent releases)
<i>PNEC sediment</i>	30.4 mg/kg (freshwater) 3.04 mg/kg (marine water)
<i>PNEC soil</i>	29.5 mg/kg (-)
108-65-6 2-methoxy-1-methylethyl acetate	
<i>PNEC STP</i>	100 mg/l (-)
<i>PNEC aqua</i>	0.635 mg/l (freshwater)
<i>PNEC sediment</i>	3.29 mg/kg (freshwater) 0.329 mg/kg (marine water)
<i>PNEC soil</i>	0.29 mg/kg (soil dw)
141-78-6 ethyl acetate	
<i>PNEC STP</i>	650 mg/l (-)
<i>PNEC aqua</i>	0.26 mg/l (freshwater) 0.026 mg/l (marine water)
<i>PNEC sediment</i>	1.25 mg/kg (freshwater) 0.125 mg/kg (marine water)
<i>PNEC soil</i>	0.24 mg/kg (soil dw)
1330-20-7 xylene, mixture of isomers	
<i>PNEC STP</i>	6.58 mg/l (-)
<i>PNEC aqua</i>	0.327 mg/l (freshwater) 0.327 mg/l (marine water) 0.327 mg/l (intermittent releases)
<i>PNEC sediment</i>	12.46 mg/kg (freshwater) 12.46 mg/kg (marine water)
123-86-4 n-butyl acetate	
<i>PNEC STP</i>	35.6 mg/l (-)
<i>PNEC aqua</i>	0.18 mg/l (freshwater) 0.018 mg/l (marine water) 0.36 mg/l (intermittent releases)
<i>PNEC sediment</i>	0.981 mg/kg (freshwater) 0.0981 mg/kg (marine water)
67-63-0 propan-2-ol	
<i>PNEC STP</i>	2251 mg/l (-)
<i>PNEC aqua</i>	140.9 mg/l (freshwater) 140.9 mg/l (marine water)
<i>PNEC sediment</i>	522 mg/kg (freshwater) 522 mg/kg (marine water)
<i>PNEC soil</i>	28 mg/kg (-)

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· **Ingredients with biological limit values:**

1330-20-7 xylene, mixture of isomers

BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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· **Additional information:** The lists valid during the making were used as basis.

· **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.

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

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

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

· **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.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

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9 Physical and chemical properties

· 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: 315 °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: 1.5 Vol %

Upper: 13.0 Vol %

· Vapour pressure at 20 °C: 8300 hPa

· Density at 20 °C: 0.9 g/cm³

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

· Other information: No further relevant information available.

10 Stability and reactivity

· **Reactivity** No decomposition if used according to specifications.

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

· Possibility of hazardous reactions

Forms explosive gas mixture with air.

Danger of bursting.

· Conditions to avoid

Avoid naked flames, sparks, other ignition sources and sunlight.

Protect from heat.

· **Incompatible materials:** No further relevant information available.

· **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

- 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	LD50	> 7400 mg/kg (rat) > 15800 mg/kg (rabbit)
Inhalative	LC50 /4h	76 mg/l (rat)

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

Inhalative	LC50 /4h	658 mg/l (rat)
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108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat) > 5000 mg/kg (rabbit)
Inhalative	LC0 /6h	> 4345 mg/l (rat) (6h, Vapour)
	LC50 /4h	35.7 mg/l (rat)
	LC50 /6h	>23.8 mg/l (rat)

141-78-6 ethyl acetate

Oral	LD50	4100 mg/kg (mouse) 5620 mg/kg (rat) 4934 mg/kg (rabbit)
Dermal	LD50	> 18000 mg/kg (rabbit)
Inhalative	LC50 /4h	1600 mg/l (rat)

1330-20-7 xylene, mixture of isomers

Oral	LD50	> 4000 mg/kg (rat)
Dermal	LD50	> 1700 mg/kg (rabbit)
Inhalative	LC50 /4h	21.7 mg/l (rat) (Vapour) 5000 ppm (rat) (Gas)

123-86-4 n-butyl acetate

Oral	LD50	10760 mg/kg (rat) (OECD 423)
Dermal	LD50	> 5000 mg/kg (rabbit)
Inhalative	LC50 /4h	23.4 mg/l (rat) (OECD 403)

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

Oral	LD50	> 6800 mg/kg (rat)
Dermal	LD50	> 3400 mg/kg (rabbit)
Inhalative	LC50 /4h	> 10.2 mg/l (rat)

67-63-0 propan-2-ol

Oral	LD50	4570 mg/kg (rat)
Dermal	LD50	13400 mg/kg (rabbit)
Inhalative	LC50 /4h	30 mg/l (rat)

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71-36-3 butan-1-ol

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

· **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **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.

Repeated exposure may cause skin dryness or cracking.

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

- **Sensitisation** No sensitizing effects known.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

No further relevant information available.

12 Ecological information· **Toxicity**· **Aquatic toxicity:****67-64-1 acetone**

EC10	530 mg/l (<i>Microcystis aeruginosa</i>) (8 d)
EC10/0,5h	1000 mg/l (bacteria)
EC50/48h	8800 mg/l (<i>daphnia</i>)
LC50/96h	8300 mg/l (<i>Lepomis macrochirus</i>) 5540 mg/l (<i>oncorhynchus mykiss</i>)
NOEC	430 mg/l (algae) (96 h) 2212 mg/l (<i>daphnia magna</i>) (OECD 211, 28 d)

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

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

141-78-6 ethyl acetate

EC50/48h	5600 mg/l (<i>scenedesmus subspicatus</i>) 165 mg/l (<i>daphnia magna</i>)
LC50	180 mg/l (<i>Xenopus Laevis</i>) (48h)
LC50/96h	230 mg/l (<i>pimephales promelas</i>)

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1330-20-7 xylene, mixture of isomers

EC50	> 175 mg/l (activated slugde)
EC50/48h	3.82 mg/l (daphnia magna)
EC50/72h	4.7 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	7.6 mg/l (oncorhynchus mykiss)
NOEC	> 1.3 mg/l (oncorhynchus mykiss) (56 d)

123-86-4 n-butyl acetate

EC50	356 mg/l (bacteria) (Tetrahymena, 40h) 73 mg/l (daphnia magna) (24h)
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) 205 mg/l (daphnia magna) (24 h)
LC50/96h	320 mg/l (Pseudokirchneriella subcapitata) 18 mg/l (pimephales promelas) (OECD 203)
NOEC	200 mg/l (desmodesmus subspicatus)

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

EC50/48h	7.4 mg/l (daphnia magna)
LC50/96h	3.77 mg/l (fish)

67-63-0 propan-2-ol

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

71-36-3 butan-1-ol

EC50/48h	1983 mg/l (daphnia magna)
EC50/72h	> 500 mg/l (Pseudokirchneriella subcapitata)

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

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

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

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

141-78-6 ethyl acetate

Biodegradation	> 70 % (-) (440/2008/EG C.4-A, DOC)
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1330-20-7 xylene, mixture of isomers

Biodegradation	87.8 % (-) (28d)
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123-86-4 n-butyl acetate

Biodegradation 83 % (-) (OECD 301 D 28d)

· **Behaviour in environmental systems:**· **Bioaccumulative potential****67-64-1 acetone**

BCF 3 (-)

log Pow -0.24 (-)

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

log Pow 2.8 (-)

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

Kow 0.43 (-)

log Pow 0.43 (-)

141-78-6 ethyl acetate

log Pow 0.68 - 0.73 (-) (25 °C)

1330-20-7 xylene, mixture of isomers

BCF 6 - 23.4 (-)

log Pow > 3 (-)

123-86-4 n-butyl acetate

BCF 15.3 (-)

Kow 2.3 (-)

log Pow 2.3 (-) (OECD 117)

67-63-0 propan-2-ol

log Pow 0.05 (-)

· **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.

Danger to drinking water if even extremely small quantities leak into the ground.

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.**13 Disposal considerations**· **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.

· **European waste catalogue**

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

15 01 04 metallic packaging

15 01 11* metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

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

14 Transport information

· UN-Number · ADR, IMDG, IATA	UN1950
· UN proper shipping name · ADR · IMDG · IATA	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
· Transport hazard class(es) · ADR	
	
· Class · Label	2 5F Gases. 2.1
· IMDG	
	
· Class · Label	2 Gases. 2.1
· IATA	
	
· Class · Label	2.1 2.1
· Packing group · ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · EMS Number:	Warning: Gases. F-D,S-U
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Transport category	1L 2

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· Tunnel restriction code D**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **European regulations**
- **Directive 2004/42/EC 2004/42/IIB (e) (840) <840**
- **National regulations:**
- **Information about limitation of use:**
 - Employment restrictions concerning juveniles must be observed.
 - Employment restrictions concerning pregnant and lactating women must be observed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- 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.
- H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
- R11 Highly flammable.
- R12 Extremely flammable.
- R20/21 Harmful by inhalation and in contact with skin.
- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R37 Irritating to respiratory system.
- R37/38 Irritating to respiratory system and skin.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- 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

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· 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 Organization

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

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· * Data compared to the previous version altered.

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