

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 18.04.2024

Version number 4 (replaces version 3)

Revision: 30.03.2022

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

### 1.1 Product identifier

Trade name: **PLASTI-KOTE 4404 METALLIC GRAPHITE 6UC 400 ML**

Article number: 004404

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

No further relevant information available.

### Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category Paint remover

### Process category

PROC7 Industrial spraying

PROC11 Non industrial spraying

Application of the substance / the mixture Spray varnish

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

#### Manufacturer/Supplier:

European Aerosols B.V.

Wolfraamweg 2

NL-8471 XC Wolvega

The Netherlands

Tel : +31 (0)561 694400

e-mail: sds-nl@european-aerosols.com

Further information obtainable from: Department Product Safety

### 1.4 Emergency telephone number:

+31 (0)561-694400 (09:00h - 17:00h)

UK: NPIS National Poisons Information Centre Tel: +44 0344 892 0111

IRL: Beaumont Hospital - National Poisons Information Centre: Tel: +353 1 8092566

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



flame

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



Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

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**· Hazard pictograms**

GHS02 GHS07

**· Signal word** *Danger***· Hazard-determining components of labelling:**

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

**· 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.  
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 spray.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents / container in accordance with regional regulations.

**· Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.  
Buildup of explosive mixtures possible without sufficient ventilation.

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

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

\*

### SECTION 3: Composition/information on ingredients

**· 3.2 Mixtures**

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

**· Dangerous components:**

CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	acetone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	25-<50%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37	dimethyl ether Flam. Gas 1A, H220 Press. Gas (Comp.), H280	20-<25%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	5-<10%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	5-<10%

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CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46	ethyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	5-<10%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane (containing < 0,1 % butadiene (203-450-8)) Flam. Gas 1A, H220 Press. Gas (Comp.), H280	5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8)) Flam. Gas 1A, H220 Press. Gas (Comp.), H280	5-<10%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	2.5-<5%
EC number: 905-588-0 Reg.nr.: 01-2119488216-32-xxxx	xylene 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%
CAS: 9004-70-0	cellulose nitrate Expl. 1.1, H201	<2.5%
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-002-00-1 Reg.nr.: 01-2119529243-45	aluminium powder (stabilised) Flam. Sol. 1, H228; Water-react. 2, H261	<2.5%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38	butan-1-ol Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	≥1-<2.5%

**Additional information:**

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1A 1272/2008 EU), so the classification as carcinogen need not to apply.

CAS 9004-70-0: GB CLP Note T

For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

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

After skin contact: Generally the product does not irritate the skin.

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.

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters -**
- **Protective equipment:** Mouth respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **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** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**  
Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 2 B
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

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

#### 67-64-1 acetone

WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm
	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm

#### 115-10-6 dimethyl ether

WEL	Short-term value: 958 mg/m <sup>3</sup> , 500 ppm
	Long-term value: 766 mg/m <sup>3</sup> , 400 ppm

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

WEL Short-term value: 548 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 274 mg/m<sup>3</sup>, 50 ppm  
 Sk

**141-78-6 ethyl acetate**

WEL Short-term value: 1468 mg/m<sup>3</sup>, 400 ppm  
 Long-term value: 734 mg/m<sup>3</sup>, 200 ppm

**106-97-8 butane (containing < 0,1 % butadiene (203-450-8))**

WEL 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)

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

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm  
 Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

**xylene**

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
 Sk; BMGV

**7429-90-5 aluminium powder (stabilised)**

WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>  
 \*inhalable dust \*\* respirable dust

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

WEL Short-term value: 154 mg/m<sup>3</sup>, 50 ppm  
 Sk

**· DNELs****67-64-1 acetone**

Oral	DNEL	62 mg/kg /per day (Consumer, longterm systemic)
Dermal	DNEL	62 mg/kg /per day (Consumer, longterm systemic)
	DNEL	186 mg/kg /per day (Worker, longterm systemic)
Inhalative	DNEL	2420 mg/m <sup>3</sup> (Worker, acute local)
	DNEL	1210 mg/m <sup>3</sup> (Worker, longterm systemic)
	DNEL	200 mg/m <sup>3</sup> (Consumer, longterm systemic)
	DNEL	60 mg/m <sup>3</sup>

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

Dermal	DNEL	796 mg/kg /per day (Worker, longterm systemic)
	DNEL	320 mg/kg /per day (Consumer, longterm systemic)
Inhalative	DNEL	275 mg/m <sup>3</sup> (Worker, longterm systemic)
	DNEL	33 mg/m <sup>3</sup> (Consumer, longterm systemic)

**141-78-6 ethyl acetate**

Oral	DNEL	4.5 mg/kg /per day (Consumer, longterm systemic)
Dermal	DNEL	63 mg/kg /per day (Worker, longterm systemic)
	DNEL	37 mg/kg /per day (Consumer, longterm systemic)
Inhalative	DNEL	734 mg/m <sup>3</sup> /200 ppm (Worker, longterm systemic)
	DNEL	1468 mg/m <sup>3</sup> /400 ppm (Worker, acute systemic)
	DNEL	734 mg/m <sup>3</sup> /200 ppm (Worker, longterm local)
	DNEL	1468 mg/m <sup>3</sup> /400 ppm (Worker, acute local)
	DNEL	367 mg/m <sup>3</sup> /100 ppm (Consumer, longterm systemic)

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	DNEL	734 mg/m <sup>3</sup> /200 ppm (Consumer; acute systemic)
	DNEL	367 mg/m <sup>3</sup> /100 ppm (Consumer, longterm local)
	DNEL	734 mg/m <sup>3</sup> /200 ppm (Consumer, acute local)
<b>123-86-4 n-butyl acetate</b>		
Oral	DNEL	2 mg/kg /per day (Consumer, longterm systemic)
	DNEL	2 mg/kg /per day (Consumer, acute systemic)
Dermal	DNEL	11 mg/kg /per day (Worker, longterm systemic)
	DNEL	11 mg/kg /per day (Worker, acute systemic)
	DNEL	6 mg/kg /per day (Consumer, longterm systemic)
	DNEL	6 mg/kg /per day (Consumer, acute systemic)
Inhalative	DNEL	300 mg/m <sup>3</sup> (Worker, longterm systemic)
	DNEL	600 mg/m <sup>3</sup> (Worker, acute systemic)
	DNEL	300 mg/m <sup>3</sup> (Worker, longterm local)
	DNEL	600 mg/m <sup>3</sup> (Worker, acute local)
	DNEL	35.7 mg/m <sup>3</sup> (Consumer, longterm systemic)
	DNEL	300 mg/m <sup>3</sup> (Consumer; acute systemic)
	DNEL	35.7 mg/m <sup>3</sup> (Consumer, longterm local)
<b>xylene</b>		
Oral	DNEL	1.6 mg/kg /per day (Consumer, longterm systemic)
Dermal	DNEL	180 mg/kg /per day (Worker, longterm systemic)
Inhalative	DNEL	211 mg/m <sup>3</sup> (Worker, longterm systemic)
	DNEL	221 mg/m <sup>3</sup> (Worker, longterm local)
	DNEL	442 mg/m <sup>3</sup> (Worker, acute systemic)
	DNEL	289 mg/m <sup>3</sup> (Worker, acute local)
	DNEL	14.8 mg/m <sup>3</sup> (Consumer, longterm systemic)
	DNEL	260 mg/m <sup>3</sup> (Consumer; acute systemic)
	DNEL	65.3 mg/m <sup>3</sup> (Consumer, longterm local)
	DNEL	260 mg/m <sup>3</sup> (Consumer, acute local)
<b>71-36-3 butan-1-ol</b>		
Oral	DNEL	3.125 mg/kg /per day (Consumer, longterm systemic)
Inhalative	DNEL	310 mg/m <sup>3</sup> (Worker, longterm local)
	DNEL	55 mg/m <sup>3</sup> (Consumer, longterm local)

· **PNECs****67-64-1 acetone**

PNEC	10.6 mg/l (Freshwater)
PNEC	1.06 mg/l (Seawater)
PNEC	21 mg/l (Sporadic release)
PNEC	100 mg/l (Sewage treatment plant)
PNEC	30.4 mg/kg (Freshwater sediment)
PNEC	3.04 mg/kg (Seawater sediment)
PNEC	29.5 mg/kg (Soil)

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

PNEC	0.635 mg/l (Freshwater)
PNEC	0.064 mg/l (Seawater)
PNEC	100 mg/l (Sewage treatment plant)

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PNEC 3.29 mg/kg (Freshwater sediment)

PNEC 0.329 mg/kg (Seawater sediment)

PNEC 0.29 mg/kg (Soil)

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

PNEC 0.18 mg/l (Freshwater)

PNEC 0.018 mg/l (Seawater)

PNEC 0.36 mg/l (Sporadic release)

PNEC 35.6 mg/l (Sewage treatment plant)

PNEC 0.981 mg/kg (Freshwater sediment)

PNEC 0.0981 mg/kg (Seawater sediment)

PNEC 0.0903 mg/kg (Soil)

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

PNEC 0.082 mg/l (Freshwater)

PNEC 0.0082 mg/l (Seawater)

PNEC 2.25 mg/l (Sporadic release)

PNEC 2476 mg/l (Sewage treatment plant)

PNEC 0.178 mg/kg (Freshwater sediment)

PNEC 0.0178 mg/kg (Seawater sediment)

PNEC 0.015 mg/kg (Soil)

**· Ingredients with biological limit values:****xylene**

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

· **Additional information:** The lists valid during the making were used as basis.**· 8.2 Exposure controls**· **Appropriate engineering controls** No further data; see section 7.· **Individual protection measures, such as personal protective equipment**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Avoid contact with the eyes.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A2/P3

· **Hand protection**

Protective gloves

· **Material of gloves**

Butyl rubber, BR

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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.

• **Penetration time of glove material**

Butyl rubber gloves with a thickness of 0.4 mm are resistant to:

Acetone: 480 min

Butyl acetate: 60 min

Ethyl acetate: 170 min

Xylene: 42 min

Butyl rubber gloves with a thickness of 0.4 mm are solvent resistant for 42- 480 minutes. As protective measure, we recommend that users and responsible persons for work safety assume solvent resistance length of 42 minutes. Considering the data in section 3 of this SDS, one can assume longer resistance length in particular cases.

• **Eye/face protection**



Tightly sealed goggles

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## SECTION 9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**

• **General Information**

• **Physical state**

Aerosol

• **Colour:**

Different according to colouring

• **Odour:**

Solvent-like

• **Odour threshold:**

Not determined.

• **Melting point/freezing point:**

Undetermined.

• **Boiling point or initial boiling point and boiling range**

Not applicable, as aerosol.

• **Flammability**

Not applicable.

• **Lower and upper explosion limit**

• **Lower:**

2.6 Vol % (67-64-1 acetone)

• **Upper:**

26.2 Vol % (115-10-6 dimethyl ether)

• **Flash point:**

Not applicable, as aerosol.

• **Auto-ignition temperature:**

240 °C (464 °F) (115-10-6 dimethyl ether)

• **Decomposition temperature:**

Not determined.

• **pH**

Mixture is non-soluble (in water).

• **Viscosity:**

• **Kinematic viscosity**

Not determined.

• **Dynamic:**

Not determined.

• **Solubility**

• **water:**

Not miscible or difficult to mix.

• **Partition coefficient n-octanol/water (log value)**

Not determined.

• **Vapour pressure at 20 °C (68 °F):**

4000 hPa (3000.2 mm Hg)

• **Density and/or relative density**

• **Density at 20 °C (68 °F):**

0.7 g/cm<sup>3</sup> (5.8 lbs/gal)

• **Relative density**

Not determined.

• **Vapour density**

Not determined.

• **9.2 Other information**

• **Appearance:**

• **Form:**

Aerosol

• **Important information on protection of health and environment, and on safety.**

• **Explosive properties:**

Not determined.

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· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	92.7 %
· <b>Water:</b>	0.2 %
· <b>VOC (EC)</b>	---
	687.3 g/l
· <b>VOC-EU%</b>	92.73 %
· <b>Solids content:</b>	7.0 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not applicable.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Extremely flammable aerosol. Pressurised container: May burst if heated.
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **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 hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

#### 67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	>15800 mg/kg (rabbit)
Inhalative	LC50 / 4h	76 mg/l (rat)
	LC50 / 96 h	5540 mg/l (oncorhynchus mykiss)

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

Oral	LD50	8530 mg/kg (rat)
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Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>10000 mg/m <sup>3</sup> (rat)
<b>141-78-6 ethyl acetate</b>		
Oral	LD50	>18000 mg/kg (rab)
Dermal	LD50	5620 mg/kg (rat)
Inhalative	LC50 / 4 h	1600 mg/m <sup>3</sup> (rat)
<b>123-86-4 n-butyl acetate</b>		
Oral	LD50	10800 mg/kg (rat) (OECD 401)
Dermal	LD50	>17600 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>21 mg/m <sup>3</sup> (rat)
<b>xylene</b>		
Oral	LD50	3523 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	29000 mg/m <sup>3</sup> (rat)
<b>71-36-3 butan-1-ol</b>		
Oral	LD50	2292 mg/kg (rat)
Dermal	LD50	3430 mg/kg (rabbit)
Inhalative	LC50 / 4 h	17000 mg/m <sup>3</sup> (rat)
<ul style="list-style-type: none"> <li>• <b>Skin corrosion/irritation</b> No irritant effect.</li> <li>• <b>Serious eye damage/irritation</b> Causes serious eye irritation.</li> <li>• <b>Respiratory or skin sensitisation</b> No sensitising effects known.</li> <li>• <b>STOT-single exposure</b> May cause drowsiness or dizziness.</li> <li>• <b>11.2 Information on other hazards</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>Endocrine disrupting properties</b></li> </ul>		
None of the ingredients is listed.		

\*

**SECTION 12: Ecological information**• **12.1 Toxicity**• **Aquatic toxicity:****67-64-1 acetone**

LC50/96h	8300 mg/l (fish)
EC50/96h	7200 mg/l (algae)
LC50 / 48 h	8450 mg/l (crustacean (water flea))

**115-10-6 dimethyl ether**

EC50 / 96 h	155 mg/l (algae)
LC50 / 48 h	>4000 mg/l (daphnia magna)
LC50 / 96 h	>4000 mg/l (fish)

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

EC50 / 48 h	>500 mg/l (daphnia magna)
LC50 / 96 h	100-180 mg/l (oncorhynchus mykiss)

**xylene**

EC50 / 48 h	7.4 mg/l (daphnia magna)
LC50 / 96 h	13.5 mg/l (fish)

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

LC50 / 96 h	1376 mg/l (fish)
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• **12.2 Persistence and degradability** No further relevant information available.

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- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.



\*

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Disposal must be made according to official regulations.

\*

### SECTION 14: Transport information

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | <p style="text-align: center;">UN1950</p>   |  |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>  | <p style="text-align: center;">1950 AEROSOLS<br/>AEROSOLS<br/>AEROSOLS, flammable</p> |  |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> |   | <p style="text-align: center;">2 5F Gases.<br/>2.1</p> |
| <ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>  |   | <p style="text-align: center;">2.1 Gases.<br/>2.1</p>  |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  |   | <p style="text-align: center;">not regulated</p>       |
| <ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>   |   | <p style="text-align: center;">Not applicable.</p>     |

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<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Code</b></li> </ul>	<p>Warning: Gases.</p> <p>-</p> <p>F-D,S-U</p> <p>SW1 Protected from sources of heat.</p> <p>SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.</p> <p>SG69 For AEROSOLS with a maximum capacity of 1 litre:</p> <p>Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.</p> <p>For AEROSOLS with a capacity above 1 litre:</p> <p>Segregation as for the appropriate subdivision of class 2.</p> <p>For WASTE AEROSOLS:</p> <p>Segregation as for the appropriate subdivision of class 2.</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>1L</p> <p>Code: E0</p> <p>Not permitted as Excepted Quantity</p> <p>Code: E0</p> <p>Not permitted as Excepted Quantity</p>
<ul style="list-style-type: none"> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	<p>2</p> <p>D</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>1L</p> <p>Code: E0</p> <p>Not permitted as Excepted Quantity</p> <p>Code: E0</p> <p>Not permitted as Excepted Quantity</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<p>UN 1950 AEROSOLS, 2.1</p>

\*

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

- **Regulated explosives precursors**

None of the ingredients is listed.

- **Regulated poisons**

None of the ingredients is listed.

- **Reportable explosives precursors**

67-64-1 acetone

Listed

7429-90-5 aluminium powder (stabilised)

Listed

- **Reportable poisons**

None of the ingredients is listed.

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- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P3a** FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **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**

- H201 Explosive; mass explosion hazard.
- 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.
- 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.
- EUH066 Repeated exposure may cause skin dryness or cracking.

#### · **Classification according to Regulation (EC) No 1272/2008**

Data is based on internal technical data and technical data from suppliers.

#### · **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international 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)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Expl. 1.1: Explosives – Division 1.1
- Flam. Gas 1A: Flammable gases – Category 1A
- Aerosol 1: Aerosols – Category 1
- Press. Gas (Comp.): Gases under pressure – Compressed gas
- Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids – Category 3
- Flam. Sol. 1: Flammable solids – Category 1
- Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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Asp. Tox. 1: Aspiration hazard – Category 1

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. \* **Data compared to the previous version altered.**

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