

# SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

## 2-coat clear lacquer

Creation date 19. March 2019  
Revision date Version 1.0

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

- 1.1. Product identifier**  
Substance / mixture 2-coat clear lacquer mixture  
Number 000050200xxx; HFA381xxx; HFB381xxx
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Mixture's intended use Repair of damaged paintwork on vehicles

#### The use descriptors

C Consumer use

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

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

#### Supplier

Name or trade name ŠKODA AUTO a.s.  
Address tř. Václava Klementa 869, Mladá Boleslav II, 293 01  
Czech Republic  
VAT Reg No CZ00177041  
Phone +420 326 811 111  
E-mail msds@skoda-auto.cz  
Web address www.skoda-auto.cz

#### Competent person responsible for the safety data sheet

Name Ing. Tadeáš Narovec  
E-mail tadeas.narovec@skoda-auto.cz

### 1.4. Emergency telephone number

National Health Service (NHS) 111  
National poisoning information centre Scotland, NHS 24: 111

### SECTION 2: Hazards identification

#### 2.1. Substance or mixture classification

##### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

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

Full text of all classifications and hazard statements is given in the section 16.

#### Most serious adverse physico-chemical effects

Extremely flammable aerosol. Pressurised container: May burst if heated.

#### Most serious adverse effects on human health and the environment

May cause drowsiness or dizziness. Causes serious eye irritation.

### 2.2. Label elements

#### Hazard pictogram



#### Signal word

Danger

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### Hazardous substances

n-butyl acetate  
acetone  
isopropanol  
ethyl acetate  
n-butyl methacrylate

### Hazard statements

H222 Extremely flammable aerosol.  
H229 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.  
P103 Read label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a doctor if you feel unwell.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.  
P501 Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

### Supplemental information

EUH 208 Contains n-butyl methacrylate. May produce an allergic reaction.  
VOC 87.8 %  
Dry matter 12.0 % volume  
VOC limit value cat. B (e) : 840 g/l  
Max. VOC content in the product in its ready to use condition 87.69 %

### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29-xxxx	n-butyl acetate	10-<25	Flam. Liq. 3, H226 STOT SE 3, H336	4

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49-xxxx	acetone	10-<25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	4
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21-xxxx	propane	10-<25	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	3
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32-xxxx	butane	10-<25	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	1, 3, 4, 5
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	isopropanol	5-<10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	4
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27-xxxx	and isobutane	5-<10	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	1, 3, 5
Index: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4 Registration number: 01-2119475103-46-xxxx	ethyl acetate	2,5-<5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	4
Index: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 Registration number: 01-2119488216-32	xylene	1-<2,5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412	1, 4
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29-xxxx	2-methoxy-1-methylethyl acetate	1-<2,5	Flam. Liq. 3, H226 STOT SE 3, H336	4
Index: 607-033-00-5 CAS: 97-88-1 EC: 202-615-1 Registration number: 01-2119486394-28-xxxx	n-butyl methacrylate	≥0,1-<1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335	2

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### Notes

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilised".
- Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

Press. Gas (Comp.)  
Press. Gas (Liq.)  
Press. Gas (Ref. Liq.)  
Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

- Substance for which exposure limits of Community for working environment exist.
- The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

##### Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

##### Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

##### Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

##### Ingestion

In the event of issues, find medical help.

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

##### Inhalation

May cause drowsiness or dizziness.

##### Skin contact

Not expected.

##### Eye contact

Causes serious eye irritation.

##### Ingestion

Irritation, nausea.

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

Symptomatic treatment.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

##### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

### SECTION 6: Accidental release measures

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

Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

#### 6.4. Reference to other sections

See the Section 7, 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. Prevent contact with skin and eyes. No smoking. Protect against direct sunlight. Do not pierce or burn, even after use. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Protect from sunlight. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C.

#### 7.3. Specific end use(s)

not available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### European Union

Substance name (component)	Type	Time of exposure	Value	Note	Source
acetone (CAS: 67-64-1)	OEL	8 hours	1210 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	500 ppm		
ethyl acetate (CAS: 141-78-6)	OEL	8 hours	734 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	200 ppm		

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### European Union

Substance name (component)	Type	Time of exposure	Value	Note	Source
ethyl acetate (CAS: 141-78-6)	OEL	Short-term	1468 mg/m <sup>3</sup>		EU limits
	OEL	Short-term	400 ppm		
xylene (CAS: 1330-20-7)	OEL	8 hours	221 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	50 ppm		
	OEL	Short-term	442 mg/m <sup>3</sup>		
	OEL	Short-term	100 ppm		
	OEL	8 hours	221 mg/m <sup>3</sup>	skin	
	OEL	8 hours	50 ppm	skin	
	OEL	Short-term	442 mg/m <sup>3</sup>	skin	
	OEL	Short-term	100 ppm	skin	
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL	8 hours	275 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	50 ppm		
	OEL	Short-term	550 mg/m <sup>3</sup>		
	OEL	Short-term	100 ppm		
	OEL	8 hours	275 mg/m <sup>3</sup>	skin	
	OEL	8 hours	50 ppm	skin	
	OEL	Short-term	550 mg/m <sup>3</sup>	skin	
	OEL	Short-term	100 ppm	skin	

### United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
n-butyl acetate (CAS: 123-86-4)	WEL	8 hours	724 mg/m <sup>3</sup>		Gestis
	WEL	Short-term	966 mg/m <sup>3</sup>		
	WEL	8 hours	150 ppm		
	WEL	Short-term	200 ppm		
	WEL	15 minutes	966 mg/m <sup>3</sup>		GBR
	WEL	15 minutes	200 ppm		
acetone (CAS: 67-64-1)	WEL	8 hours	1210 mg/m <sup>3</sup>		Gestis
	WEL	Short-term	3620 mg/m <sup>3</sup>		
	WEL	8 hours	500 ppm		
	WEL	Short-term	1500 ppm		
	WEL	15 minutes	3620 mg/m <sup>3</sup>		GBR
	WEL	15 minutes	1500 ppm		
butane (CAS: 106-97-8)	WEL	8 hours	1450 mg/m <sup>3</sup>		Gestis
	WEL	Short-term	1810 mg/m <sup>3</sup>		
	WEL	8 hours	600 ppm		
	WEL	Short-term	750 ppm		

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Substance name (component)	Type	Time of exposure	Value	Note	Source
isopropanol (CAS: 67-63-0)	WEL	8 hours	999 mg/m <sup>3</sup>		Gestis
	WEL	Short-term	1250 mg/m <sup>3</sup>		
	WEL	8 hours	400 ppm		
	WEL	Short-term	500 ppm		
	WEL	15 minutes	1250 mg/m <sup>3</sup>		GBR
	WEL	15 minutes	500 ppm		
ethyl acetate (CAS: 141-78-6)	WEL	8 hours	730 mg/m <sup>3</sup>		Gestis
	WEL	Short-term	1460 mg/m <sup>3</sup>		
	WEL	8 hours	200 ppm		
	WEL	Short-term	400 ppm		
	WEL	15 minutes	400 ppm		GBR
xylene (CAS: 1330-20-7)	WEL	8 hours	220 mg/m <sup>3</sup>		Gestis
	WEL	Short-term	441 mg/m <sup>3</sup>		
	WEL	8 hours	50 ppm		
	WEL	Short-term	100 ppm		
	WEL	8 hours	220 mg/m <sup>3</sup>	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	GBR
	WEL	15 minutes	441 mg/m <sup>3</sup>	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	8 hours	50 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	15 minutes	100 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	WEL	8 hours	274 mg/m <sup>3</sup>		Gestis
	WEL	Short-term	548 mg/m <sup>3</sup>		
	WEL	8 hours	50 ppm		
	WEL	Short-term	100 ppm		
	WEL	8 hours	274 mg/m <sup>3</sup>	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	GBR

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### United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	WEL	15 minutes	548 mg/m <sup>3</sup>	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	GBR
	WEL	8 hours	50 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	15 minutes	100 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles.

#### Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

#### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

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

Appearance	spray
Physical state	liquid at 20°C
color	colourless
Odour	after solvents
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	-44.5 °C
Flash point	<0 °C
Evaporation rate	data not available
Flammability (solid, gas)	Extremely flammable aerosol.
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	
bottom	1.2 %
upper	13 %
Vapour pressure	3600 hPa at 20 °C



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Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	insoluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	The product does not have explosive properties but can be explosive when blended with air.
Oxidising properties	data not available
<b>9.2. Other information</b>	
Density	data not available
ignition temperature	365 °C
content of organic solvents (VOC)	87.8 %
solid content (dry matter)	12.0 % volume
VOC limit value	cat. B (e) : 840 g/l
Max. VOC content in the product in its ready to use condition	87.69 %

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

not available

#### 10.2. Chemical stability

The product is stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Unknown.

#### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. Pressurised container: May burst if heated.

#### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

#### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

##### Acute toxicity

Based on available data the classification criteria are not met.

isopropanol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method
Inhalation	LC <sub>50</sub>	OECD 403	>10000 ppm	6 hour	Rat	F/M	
Oral	LD <sub>50</sub>		>5000 mg/kg		Rat		
Inhalation	LC <sub>50</sub>		72.6 mg/l	4 hour	Rat		
Dermal	LD <sub>50</sub>		>5000 mg/kg		Rat		

xylene

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method
Oral	LD <sub>50</sub>	EU B.1	3523 mg/kg		Rat (Rattus norvegicus)		

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xylene

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method
Dermal	LD <sub>50</sub>		1700 mg/kg		Rabbit		
Inhalation	LC <sub>50</sub>		11 mg/l	4 hour	Rat ( <i>Rattus norvegicus</i> )		Calculation of value

### Skin corrosion/irritation

Based on available data the classification criteria are not met.

isopropanol

Route of exposure	Result	Time of exposure	Species
	Not irritating		Rabbit

xylene

Route of exposure	Result	Time of exposure	Species
Skin	Slightly irritating		Rabbit

### Serious eye damage/irritation

Causes serious eye irritation.

isopropanol

Route of exposure	Result	Method	Time of exposure	Species
Eye	Serious eye damage	OECD 405		Rabbit

xylene

Route of exposure	Result	Method	Time of exposure	Species
Eye	Slightly irritating	OECD 405		Rabbit

### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

isopropanol

Route of exposure	Result	Method	Time of exposure	Species	Sex
	Not sensitizing	OECD 406		Guinea-pig	F/M

xylene

Route of exposure	Result	Method	Time of exposure	Species	Sex
Dermal	Not sensitizing	OECD 429		Mouse (lymphoma)	

### Mutagenicity

isopropanol

Result	Time of exposure	Specific target organ	Species	Sex
Negative without metabolic regeneration, Negative with metabolic regeneration		Ovary	Guinea-pig	F/M
Negative			Mouse	

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### Germ cell mutagenicity

Based on available data the classification criteria are not met.

isopropanol

Result	Method	Time of exposure	Specific target organ	Species	Sex
Negative	in vitro				

xylene

Result	Method	Time of exposure	Specific target organ	Species	Sex
Negative	OECD 471			Bacteria (Salmonella typhimurium)	
Negative	EU B.10				
Negative	EU B.19				

### Carcinogenicity

Based on available data the classification criteria are not met.

isopropanol

Route of exposure	Parameter	Method	Value	Time of exposure	Result	Species	Sex
		OECD 451		104 week		Rat	

xylene

Route of exposure	Parameter	Method	Value	Time of exposure	Result	Species	Sex
Oral		EU B.32		103 week (5 days/week)	Not carcinogenic	Rat (Rattus norvegicus)	F/M

### Reproductive toxicity

Based on available data the classification criteria are not met.

isopropanol

	Parameter	Value	Result	Species	Sex
Effects on fertility			Negative	Rat	
Developmental toxicity			Negative	Rat	

### Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

isopropanol

Route of exposure	Parameter	Value	Result	Species	Sex
			Drowsiness, Dizziness		

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

isopropanol

Route of exposure	Parameter	Method	Value	Time of exposure	Result	Species	Sex
Inhalation	NOEC	OECD 413	5000 ppm	104 week		Rat	F/M

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xylene

Route of exposure	Parameter	Method	Value	Time of exposure	Result	Species	Sex
Oral	NOAEL	OECD 408	150 mg/kg	90 day (7 days/week)		Rat ( <i>Rattus norvegicus</i> )	

### Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

Data for the mixture are not available.

isopropanol

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>		>10000 mg/l	24 hour	Daphnia ( <i>Daphnia magna</i> )	Freshwater
LC <sub>50</sub>		9640 mg/l	96 hour	Fishes ( <i>Pimephales promelas</i> )	Freshwater
		1050 mg/l	16 hour	Bacteria ( <i>Pseudomonas putida</i> )	

xylene

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	OECD 203	86 mg/l		Fishes ( <i>Leuciscus idus</i> )	Freshwater
EC <sub>50</sub>	OECD 202	3.1 mg/l	48 hour	Daphnia ( <i>Daphnia magna</i> )	Freshwater
EC <sub>50</sub>	OECD 201	2.2 mg/l	72 hour	Algae ( <i>Selenastrum capricornutum</i> )	Freshwater
EC <sub>50</sub>		>1-10 mg/l		Algae ( <i>Selenastrum capricornutum</i> )	Salt water

#### More information

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted or in large quantities to enter groundwater, catchment area or sewage system.

### 12.2. Persistence and degradability

#### Biodegradability

isopropanol

Parameter	Method	Value	Time of exposure	Environment	Result
					Biodegradable

xylene

Parameter	Method	Value	Time of exposure	Environment	Result
	OECD 301	>60 %			Easily biodegradable

Data not available.

### 12.3. Bioaccumulative potential

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isopropanol

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow	0.05				

xylene

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BAF	8.5	7 day	Fishes (Oncorhynchus mykiss)	Freshwater	

Not available.

### 12.4. Mobility in soil

xylene

Parameter	Value	Environment	Surrounding temperature
Log Pow	3.12		

Not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Packaging waste type code

15 01 10 packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

### 14.1. UN number

UN 1950

### 14.2. UN proper shipping name

AEROSOLS

### 14.3. Transport hazard class(es)

2 Gases

### 14.4. Packing group

not available

### 14.5. Environmental hazards

not available

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

not available

#### Additional information

Hazard identification No.  (Kemler Code)  
UN number **1950**  
Classification code 5F  
Safety signs 2.1



#### Air transport - ICAO/IATA

Packaging instructions passenger 203  
Cargo packaging instructions 203

#### Marine transport - IMDG

EmS (emergency plan) F-D, S-U  
MFAG 620

## SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

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### Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

butane, and isobutane

Restriction	Conditions of restriction
28	<p>Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:</p> <ol style="list-style-type: none"><li>1. Shall not be placed on the market, or used,<ul style="list-style-type: none"><li>– as substances,</li><li>– as constituents of other substances, or,</li><li>– in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:<ul style="list-style-type: none"><li>– either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,</li><li>– the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.</li></ul></li></ul></li></ol> <p>Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:</p> <p>“Restricted to professional users”.</p> <ol style="list-style-type: none"><li>2. By way of derogation, paragraph 1 shall not apply to:<ol style="list-style-type: none"><li>(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;</li><li>(b) cosmetic products as defined by Directive 76/768/EEC;</li><li>(c) the following fuels and oil products:<ul style="list-style-type: none"><li>– motor fuels which are covered by Directive 98/70/EC,</li><li>– mineral oil products intended for use as fuel in mobile or fixed combustion plants,</li><li>– fuels sold in closed systems (e.g. liquid gas bottles);</li></ul></li><li>(d) artists’ paints covered by Regulation (EC) No 1272/2008;</li><li>(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.</li></ol></li></ol>
29	<p>Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:</p> <ol style="list-style-type: none"><li>1. Shall not be placed on the market, or used,<ul style="list-style-type: none"><li>– as substances,</li><li>– as constituents of other substances, or,</li><li>– in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:<ul style="list-style-type: none"><li>– either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,</li><li>– the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.</li></ul></li></ul></li></ol> <p>Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:</p> <p>“Restricted to professional users”.</p> <ol style="list-style-type: none"><li>2. By way of derogation, paragraph 1 shall not apply to:<ol style="list-style-type: none"><li>(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;</li><li>(b) cosmetic products as defined by Directive 76/768/EEC;</li><li>(c) the following fuels and oil products:<ul style="list-style-type: none"><li>– motor fuels which are covered by Directive 98/70/EC,</li><li>– mineral oil products intended for use as fuel in mobile or fixed combustion plants,</li><li>– fuels sold in closed systems (e.g. liquid gas bottles);</li></ul></li><li>(d) artists’ paints covered by Regulation (EC) No 1272/2008;</li><li>(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.</li></ol></li></ol>

### 15.2. Chemical safety assessment

not available

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### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H312+H332	Harmful in contact with skin or if inhaled.

#### Guidelines for safe handling used in the safety data sheet

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.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.
P101	If medical advice is needed, have product container or label at hand.
P103	Read label before use.
P261	Avoid breathing mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.

#### A list of additional standard phrases used in the safety data sheet

EUH 066	Repeated exposure may cause skin dryness or cracking.
EUH 208	Contains n-butyl methacrylate. May produce an allergic reaction.

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

#### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC <sub>50</sub>	Concentration causing 50% blockade



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ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K <sub>ow</sub>	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aerosol	Aerosol
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### More information

Classification procedure - calculation method.

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### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.